DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

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Year 2014 Nine Minimum Controls Annual Report For Combined Sewer System







March 2015 prepared by Program Consultants Organization GREELEY AND HANSEN

Engineers/Consultants

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY Washington, DC

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Program Consultants Organization

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March 2015

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Section 1 Introduction

1.1 PURPOSE

In accordance with the terms of its National Pollutant Discharge Elimination System (NPDES) permit, the District of Columbia Water and Sewer Authority (DC Water) is required to submit an annual report on the implementation of the Nine Minimum Controls for the combined sewer system (CSS). This document is the annual report for calendar year 2014.

1.2 DC WATER SEWER SYSTEM

DC Water operates a wastewater collection system comprised of separate and combined sewers. Wastewater treatment is provided by the District's Blue Plains Advanced Wastewater Treatment Plant (BPAWWTP). The service area for BPAWWTP covers approximately 735 square miles including parts of suburban Virginia and Maryland. Approximately two-thirds of the District is served by separate sewers, which consist of two independent piping systems: one system for sanitary wastewater (i.e. sewage from homes and businesses) and the other system for storm water. The remaining one-third of the District is served by a CSS, which conveys both storm water and sanitary wastewater in one piping system.

During dry weather, sanitary wastewater collected in the CSS is conveyed to BPAWWTP. During periods of heavy rainfall, the capacity of certain combined sewer structures are exceeded and the excess flow, which is a combination of storm water and sanitary wastewater, is discharged directly to overlying water bodies such as the Anacostia River, Rock Creek, the Potomac River or their tributary waters. This excess flow is called Combined Sewer Overflow (CSO). Release of this excess flow is necessary to prevent short term problems such as flooding in homes, businesses, and streets and long term problems such as depreciation in the value of affected buildings. There are 53 active CSO outfalls listed in DC Water's existing NPDES Permit, which is issued and administered by the U.S. Environmental Protection Agency (EPA Region III). The combined sewer area is shown on Figure 1-1.

1.3 NPDES PERMIT REQUIREMENTS

NPDES permit, No. DC0021199, issued on August 31, 2010, authorizes DC Water to discharge from the outfalls listed in the permit in accordance with the limitations and other requirements specified in the permit. The permit is effective from September 30, 2010 until September 30, 2015. A copy of the NPDES permit is included in Appendix 1-1.

In accordance with permit regulations a renewal application will be submitted to the Environmental Protection Agency (EPA) by April 3, 2015.



In accordance with EPA's CSO Policy, DC Water's NPDES Permit requires implementation of EPA's nine minimum controls (NMCs). The NMCs are nonstructural and low cost management practices intended to optimize the existing sewer system to reduce CSOs. The NMCs are as follows:

- 1. Proper operations and maintenance
- 2. Maximize use of the collection system for storage
- 3. Review and modify pretreatment requirements
- 4. Maximize flow to the Publicly Owned Treatment Works (POTW) for treatment
- 5. Eliminate dry weather overflows
- 6. Control solids and floatables in CSO
- 7. Pollution prevention
- 8. Public notification
- 9. Monitoring

The permit requires DC Water to submit an annual report on the NMCs by March 31 of each year covering the prior calendar year. The following is an excerpt from the permit describing the reporting requirements:

- 1. "Information submitted in reports shall, in general, be prepared in a tabular format giving dates, times and locations as applicable. The information to be reported of the Nine Minimum Controls Program *shall include the following:*
 - a. CSS Control Structures Number of inspections conducted, conditions observed (e.g., function normal, blockages, malfunctions repairs needed) and maintenance and repairs performed. For blockages observed provide: the location of blockage, date and time that the blockage was discovered, date and time blockage was corrected, and whether or not a discharge from the outfall to the receiving water was observed. If a discharge was observed, provide an estimate of discharge volume.
 - b. Pumping Stations Number of inspections conducted, numbers of screens and pumps installed and numbers available for service; and preventative maintenance performed. For pumps found not to be available for service, permittee shall report the cause of unavailability, schedule for and status of repairs. For the Main and O Street pumping stations, report the results of visual wet weather surveys and record of overflow screenings.
 - c. Northeast Boundary Swirl Facility Number of inspections conducted, number of screens and swirls installed and numbers available for service; and preventative maintenance performed. Report record of flow treated and screenings removed.
 - d. Inflatable Dams and SCADA System Number of inspections conducted. Number of dams installed and number of dams operational. Occurrence of an overflow and approximate duration of overflow based on inflation status of the dams.
 - e. Major Combined Sewers Upon development of inspection program. Inspections planned, inspections conducted, results of inspections and description and schedule for maintenance and repairs planned and performed.
 - Wet Weather Overflows Report the modeled results of the number, volume and average f. March 2015

duration of overflows for each active CSO outfall due to wet weather events.

- g. Dry Weather Overflows Are prohibited, however, in the event that they do occur, report their location, cause, date and time discovered, action taken, date and time discharge confirmed ceased and actions taken to prevent reoccurrence of the condition causing the overflow. Include an estimate of the overflow volume.
- *h.* Catch Basin Cleaning Number and location of catch basins required to be cleaned plus the number and location of catch basins actually cleaned.
- *i.* Anacostia River Floatable Debris Removal Program Number of boats available for service, number of cleaning trips, record of amount and nature of material removed.
- *j.* BMP Demonstration for Solid and Floatable Control Number of inspections conducted and conditions observed record of material removed at CSO outfalls 018, 040 and 041.
- *k.* Other Summarize actions and activities under programs for Pollution Prevention, Public Notification and Pretreatment.
- *l.* Wet Weather Flows to Blue Plains WWTP Upon development of a reporting system, report operations for each wet weather event.
- m. CSS Litter Control Number of meetings or conferences with DPW and NPS. Summary of topics discussed and actions adopted.
- 2. *Report on the following quarterly:*
 - a. Northeast Boundary Swirl Facility
 - b. Inflatable Dams and SCADA System
 - c. Dry Weather Overflows
 - d. CSS Control Structures
 - e. Pumping Stations
 - f. Wet Weather Flows to Blue Plains
 - g. Wet Weather Overflows
 - h. CSS Litter Control
- 3. *Report on the following annually:*
 - a. CSS Inventory
 - b. Major Combined Sewers
 - c. Catch Basin Cleaning
 - d. BMP Demonstration for Solid and Floatable Control
 - e. Anacostia River Floatable Debris Removal Program
 - f. Other"

1.4 THREE PARTY CONSENT DECREE

DC Water entered into a Consent Decree (CD) with the U.S. Government and certain citizen plaintiffs to resolve allegations regarding the CSS. The following consent decree was lodged with and entered by the court on June 25, 2003 and October 10, 2003, respectively:

United States District Court for the District of Columbia Civil Action No. 1:00CV00183TFH Civil Action No. 02-2511 (TFH) Consent Decree

There are many overlapping requirements between the CD and the NPDES permit. In most cases, items required to be implemented under the permit are also required to be implemented under the CD, with additional requirements regarding the schedule required for implementation or the nature of implementation. These are noted in the text of this document where relevant to the NMC program.

APPENDIX 1-1

NPDES Permit

Permit No. DC0021199

Effective Date: September 30, 2010 Expiration Date: September 30, 2015

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, as amended, 33 U.S.C. # 1251 et seq. (the "Act"),

District of Columbia Water and Sewer Authority

is authorized to discharge from the wastewater system and the facility located at

5000 Overlook Avenue, SW Washington, D.C. 20032

to receiving waters named Potomac and Anacostia Rivers, Rock Creek, and tributary waters in accordance with effluent limitations, monitoring requirements and other conditions set forth in parts I, II and III, herein.

Signed this 3/5 day of August, 2010

Jon M. Capacasa, Director

Water Protection Division U.S. Environmental Protection Agency Region III

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Part I.EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

SECTION A. DEFINITIONS

When used in this permit, unless otherwise indicated, the following terms shall mean the following:

- 1. **"Blue Plains**" or **"plant**" or **"POTW**" or **"facility**" means the District of Columbia advanced wastewater treatment plant located at 5000 Overlook Avenue, S.W., Washington, DC, 20032.
- 2. **"Blue Plains Tunnel"** or **"BPT"** means the tunnel that is part of the CSS which is included in the LTCP and which terminates on the Blue Plains site.
- 3. "Combined Sewer System" or "CSS" means the pipelines pumping stations, treatment facilities, and appurtenances in the District of Columbia which are designed to convey wastewater and storm water through a single pipe system to combined sewer overflow outfalls and/or the POTW. The system also includes the selected CSO controls included in the LTCP and all supplements thereto, which are being implemented under the Consent Decree in Consolidated Civil Action No. 1:00CV00183TFH and all amendments thereto.
- 4. "Combined Sewer System Flow" or "CSSF" means the conditions that begin when the Influent Flow rate to receive complete treatment at the POTW is greater than 511 mgd. CSSF conditions shall be deemed to cease 4 hours after the Influent Flow rate drops to a rate less than 511 mgd or a period of 4 hours has lapsed since the start of the CSSF conditions, whichever occurs later.
- 5. "Complete Treatment" means passage of all flows through any combination of conveyance and treatment downstream of primary sedimentation that ultimately discharges effluent from Outfall 002, in accordance with the limitations set forth for Outfall 002 found at Part I.B. of this permit.
- 6. **"Disinfection**" means treatment to reduce E. coli. Disinfection by chlorination shall be followed by dechlorination.
- 7. **"Dry Weather Flow"** or **"DWF"** means the flow from sewers that convey collection system flow to Blue Plains when such flow is not greater than a rate of 511 mgd.
- 8. "Enhanced Clarification" means the treatment process that provides improved performance over that typically obtained from plain sedimentation, which process includes the recirculation of solids removed from the process or recirculation of other media together with the addition of coagulants.
- 9. **"Enhanced Clarification Facility**" or **"ECF**" means the combination of process units located on the end of the BPT, designed to empty the BPT and distribute flow from

the BPT to Complete Treatment and to disinfection prior to discharge from Outfall 001; such distribution to be under an operating routine described at Part I.C. footnote (1). These facilities are being constructed under the LTCP.

- 10. "Excess Flow Treatment" or "EFT" means treatment of Influent Flow during CSSF conditions, in East Primary Sedimentation followed by disinfection and dechlorination, for flow rates that exceed the rates required to receive Complete Treatment, up to a maximum rate of 336 mgd. As part of placing the ECF in operation, the EFT facilities shall be permanently disconnected from Outfall 001.
- 11. "Influent Flow" means the following:
 - a. **Influent Flow** to receive complete treatment means the sum of metered flows from sewers that convey collection system flow to Blue Plains and flow emptied from the BPT.
 - b. Prior to placing the ECF in operation, the **Influent Flow** discharged from Outfall 001 means the component of metered flow from sewers that convey collection system flow to Blue Plains and receives EFT.
 - c. After the ECF is placed in operation, the **Influent Flow** discharged from Outfall 001 means the component of flow emptied from the BPT that receives treatment in the ECF and disinfection and dechlorination.
- 12. "Long Term Control Plan" or "LTCP" means the recommended plan for the CSS included in the Combined Sewer System Long Term Control Plan, Final Report, July 2002 prepared by the permittee pursuant to the 1994 CSO Policy and Section 402(q) of the CWA and any supplements thereto. The LTCP Final Report, July 2002, was submitted to EPA and the DC Department of Health, later DC Department of the Environment.
- 13. "Measured Flow Rates" means flows measured to determine rates to be treated and discharged under CSSF conditions. Flow rates shall be metered and rates recorded at intervals not to exceed one (1) hour. An average rate shall be calculated from the metered rate. An average rate means the rate calculated, for the total time that CSSF conditions are in effect, by dividing the sum of the metered rates by the number of rates recorded. Average rates shall be calculated or recorded directly from metered rates. The permittee shall be in compliance with the treatment and discharge requirements for CSSF conditions when average rates are within the following:

a. Not less than 0.90 times the rate required to receiveComplete Treatment;

b. Not greater than 1.1 times the maximum rate permitted to be discharged from Outfall 001.

- 14. **"Place in Operation**" means to achieve steady state operation and to operate consistently in such a way as to accomplish the intended function, even though all construction close-out activities (such as completion of a punch list and resolution of contract disputes or close-outs) may not yet be complete.
- 15. "Wet Weather Event" means the condition that occurs as a result of storm water runoff, including snowmelt, entering or being conveyed in the CSS.
- 16. "Grab Sample" An individual sample collected in less than 15 minutes.
- 17. "At Outfall XXX" A sample location before the effluent joins or is diluted by any other waste stream, body of water, or substance or as otherwise specified.
- 18. "Estimate" To be based on a technical evaluation of the sources contributing to the discharge including, but not limited to pump capabilities, water meters and batch discharge volumes.
- 19. "**i-s**" (immersion stabilization) A calibrated device is immersed in the effluent stream until the reading is stabilized.

SECTION B. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS OUTFALL 002

effective date of the permit and lasting through the expiration date, the permittee is authorized to discharge from Outfall 002 to the Potomac River, subject to the following conditions, discharge limitations and monitoring requirements: Effluent limitations are based upon the design capacity of 370 mgd for Complete Treatment. During the period beginning on the

	Discharge Limitatic	ns			Monitoring Requirements	
Effluent Characteristic	(lb/day)	A A REPORT AND A REPORT OF	Other Units (spe	cify)	Measurement	Sample Type
	Ave. Monthly	Ave. Weekly	Ave. Monthly	Ave. Weekly	Frequency	
Flow/day (mgd) (1, 1a,) -	N/A (2)	N/A	N/L (3)	N/L	Continuous	Measured
Carbonaceous Biological Oxygen Demand (5 day)	15,429	23,143	5.0 mg/l	7.5 mg/l	Daily	24-hour Composite
Total Suspended Solids (TSS)	21,600	32,400	7.0 mg/l	-10.5 mg/l	Daily	24-hour composite
Total Phosphorus	555 (4)	1,080	0.18 mg/l (4)	0.35 mg/l	Daily	24-hour composite
				2		
Ammonia Nitrogen:	6.					
Summer (5/1 – 10/31)	12,960	18,823	4.2 mg/l	6.1 mg/l	Daily	24-hour composite
Winter 1 $(11/1 - 2/14)$	34,253	45,670	11.1 mg/l	14.8 mg/l	Daily	24-hour composite
Winter 2 (2/15 – 4/30)	39,500	52,460	12.8 mg/	17.0 mg/l	Daily	24-hour composite
Dissolved Oxygen	5.0 mg/l minimum Not less than 4.0 m	daily average. g/l at any time			Every 2 hours	
Total Residual Chlorine (mg/l) (6)	Non-detectable	-1	Non-detectable		Every 2 hours	Grab
pH (s.u.) (7)	Within limits of 6.0	to 8.5 standard un	nits		Continuous in-situ monito	ring and recording
Total Ortho-phosphate (mg/l)	N/A	N/A	N/L	N/L	Daily	24-hour composite
Alkalinity, total (CaCO ₃) (mg/l)	N/A	N/A	N/L	N/L	Daily	24-hour composite
Hardness, total (CaCO ₃) (mg/l)	N/A	N/A	N/L	N/L	Daily	24-hour composite
Nitrite (NO ₂) (mg/l)	N/A	N/A	N/L	N/L	Daily	24-hour composite

Nituata (NO) Total Vialdahl	N/A	N/A	NI	NIA	Doil.	
THUR ALL THAT I THE INTERNATION	VM		7/17	7/11	שמווש	24-nour composite
Nitrogen (mg/l) (10)	N/A	N/A	N/L	N/L	Daily	24-hour composite
Total Nitrogen (mg/l) (10)					Daily	24-hour composite
Cadmium (dissolved) (9)	N/A	N/A	N/L	N/L	Bimonthly	4 grabs/24-hours
Copper (dissolved (9)	N/A	N/A	N/L	N/L	Bimonthly	4 grabs/24-hours
Iron (dissolved) (9)	N/A	N/A	N/L	N/L	Bimonthly	4 grabs/24 hours
Mercury (total recoverable)	N/A	N/A	N/L	N/L	Bimonthly	4 grabs/24 hours
(8)						
Lead (dissolved) (9)	N/A	N/A	N/L	N/L	Bimonthly	4 grabs/24 hours
Nickel (dissolved) (9)	N/A	Ň/A	N/L	N/L	Bimonthly	4 grabs/24 hours
Zinc (dissolved) (9)	N/A	N/A	N/L	N/L	Bimonthly	4 grabs/24 hours
PCBs (12)	N/A	. N/A		10	2 wet and 2 dry weather	24-hour composite
					samples quarterly	
E. coli (maximum 30-day	N/A	N/A	126 cfu/100 ml	N/L	1 /day	Grab
geometric mean for 5			Geometric	ł		
samples minimum)			mean			

(1)Conditions and limitations for flows discharged from Outfall 002 shall be as follows:

Flow Condition and Period	Times	Measured Influent Flow Rates to Receive Complete Treatment
A. DWF, through permit expiration date	All times	Up to and including 511 mgd
B. CSSF		0
1. From effective date of permit and	First 4 hours	Up to and including 555 mgd
following placing ECF in operation unless otherwise authorized or approved by EPA	After 4 hours	Up to and including 511 mgd
 Until Completion of Nitrification Denitrification Facilities unorade but no later than March 1 2011 	First 4 hours	I ln to and including 511 mod
the second second second of the second s	After 4 hours	Up to and including 450 mgd
3. During construction of improvements to)
existing nitrogen removal facilities, period(s) to be determined by		
permittee and EPA from completion of design and construction		
schedules for the length of time required for such construction, but	First 4 hours After 4	Up to and including 511 mgd
no later than July 14, 2014.	hours	Up to and including 450 mgd
During construction of the ECF and tie-ins		
to the existing facilities. Periods to be determined by permittee and	First 4 hours	Up to and including 511 mgd
EPA from completion of design and construction schedules.	After 4 hours	Up to and including 450 mgd

(1a) syste	Flows reported for locations required under this permit are based on flows metered by the Blue Plains metering system. This m produces information to report flows by direct metering or through calculations using the results from multiple meters.
(2)	N/A Not Applicable
(3)]	V/L No Limit, monitoring only
(4) T	he phosphorus limitation of 0.18 mg/l is based on the Potomac Strategy Management Commission Agreement and the best technical information available at the time of permit issuance. In addition, based upon available data of full plant BNR process operation, the monthly average is expressed as a 12 month rolling average. In any 12 month period no one month may exceed a mass of 1080 lbs/day and 0.35 mg/l. During full plant BNR, the 12 month rolling average mass for a month shall be the total mass
	for the month plus the total mass for the previous eleven (11) months divided by the total number of days in the 12 month period. The 12 month rolling average concentration for a month shall be the total mass for the 12 month period divided by the average daily flow (in mgd) for the 12 month period times 8.34. No single month in any 12 month period used to calculate a 12 month rolling average shall exceed a monthly average limit of 490 kg/day (1080 lb/day) and 0.35 mg/l.
(5)	Continuous in situ monitoring and recording of dissolved oxygen shall continue. The monitoring requirements shall be understood to require twelve (12) readings from the continuous recording per day.
(9)	When the total residual chlorine (TRC) analysis of the final effluent at Outfall 002 results in a detectable measurement, the permittee shall take steps to achieve a non-detectable TRC concentration. See Special Condition Part IV Section C.
(\mathbf{z})	The permittee is required to be in compliance with the pH limitations specified above for 99% of the time for any calendar month. The total excursion time allowed for any calendar month is 7 hours, 26 minutes and no individual excursion shall exceed 60 minutes.
(8)	The permittee shall sample the effluent for mercury using the most sensitive test Method 1631 E. The method detection limit, and the method used to perform the mercury analysis shall be submitted with the discharge monitoring reports.
(6)	The permittee shall monitor the effluent at Outfall 002 for the metals listed above in accordance with the conditions set forth below. Report results in micrograms per liter.
	a. The permittee shall test for additional metals, and priority pollutants (Appendix A to 40 C.F.R. Part 423) twice in five (5) years during the term of this permit. One such testing shall be in the third year of the permit and the second shall be in the last year of the permit.

	b. All analytical methods will be EPA approved methodologies found in 40 C.F.R. Part 136.
	c. The quantification level (QL) shall be the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method. Usually, units for the QL are in micrograms per liter.
	d. Permittee shall analyze each grab sample and report the average of the four samples. Alternatively, the permittee may prepare a composite of the grab samples in the laboratory by proportioning to flow and analyze the laboratory composite sample.
(10)	As provided in Part IV Section D of this permit, the permittee shall operate the plant, including the nitrogen removal process to meet the total nitrogen effluent limit of not more than 4,377,580 pounds per year which is assigned to Outfall 002.
	Total nitrogen concentration shall be the sum of organic nitrogen, ammonia nitrogen and (NO2 +NO3) - N concentrations (e.g., Total Nitrogen = Total Kjeldahl nitrogen + No ₂ as N + No ₃ as N).
	The total nitrogen effluent for Outfall 002 shall be calculated on a daily basis as the mass load in pounds per day derived from the daily total nitrogen concentration from Outfall 002, times the associated daily flow. The daily total nitrogen mass load shall be summed during each calendar year to determine the annual mass load.
(11)	The Permittee shall report any substantial changes in the volume or character of pollutants being introduced into the POTW.
(12)	See Part IV.F, Special Conditions for additional PCB monitoring requirements.
2	

PART I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

SECTION C. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS OUTFALL 001

Civil Action No. 1:CV00183TFH and any supplements or modifications thereto and subject to the following conditions, discharge limitations and monitoring requirements. Beginning from the effective date of this permit and lasting through the expiration date, Influent Flow discharged from Discharge from Outfall 001 to the Potomac River is approved as an anticipated bypass, provided the permittee is in compliance with the LTCP implementation schedule requirements of the March 23, 2005 Consent Decree entered into in <u>United States v. DCWASA</u>, et al, Consolidated Outfall 001 shall receive treatment as follows:

Excess Flow Treatment (EFT) until the ECF is placed in operation.

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Effluent Characteristic	Discharge Limitat	ions		の情報で、次の時期に見	Monitoring Requirements	S	
	Kg/day (lb/day)		Other Units (speci	fy)	Measurement	Sample Type (6)	
	Ave Monthly	Ave Weekly	Ave Monthly	Ave Weekly	Frequency		
Flow/discharge (mgd) (1) (1a)	N/A	N/A (2)	N/T (3)	N/L	Continuous	Measured	
Carbonaceous Biochemical	N/A	N/A	N/L	N/L	Per discharge	Composite (4)	_
Oxygen Demand (5-day)		2					
Total Suspended Solids (TSS)	N/A	N/A	N/L	N/L	Per discharge	Composite (4)	
рН (s.u.)	N/A	N/A	N/L	N/L	Per discharge	Composite (4)	_
PCBs (9)					2 wet weather per	Grab	_
		2			quarter		
E.coli – (cfu/100 ml) –	N/A	N/A	N/L	N/L	Every 8 hours, not less	Grab	
					than one sample per		
					discharge		
Total Residual Chlorine (mg/l)	Non-detectable		Non-detectable		Every 2 hours, not less	Grab	
(5)			Y.		than one sample per		
				8	discharge		
Total Nitrogen (10)	N/A	N/A	N/L	N/L	Per discharge	Composite (4)	
Total Phosphorus	N/A	N/A	N/L	N/L	Per discharge	Composite (4)	

(1)Conditions and limitations for Influent Flow discharged from Outfall 001 shall be as follows:

FLOV	W CONDITION AND PERIOD	TIMES	MEASURED FLOW RATES FOR OUFALL 001 No discharge memitted
B.	. CSSF		
l. la:	From effective date of permit and sting until ECF is placed in operation.	All times	Up to and including 336 mgd above rates to receive complete treatment under Part I.B for Outfall 002
2. Fc un	ollowing ECF being placed in operation, for emptying the BPT der an operating routine that provides for:	All times	Up to a maximum of 225 mgd
	a. Conveying flow from the BPT through the ECF or transfer to complete treatment;		
- <u>-</u> -	b. Regulating the discharge of ECF effluent to maintain a rate of 511 mgd through complete treatment while optimizing conditions for maintaining the availability of the storage volume in the BPT such as that the occurrence of CSOs is minimized;		e
	c. No discharge of flow from the BPT from Outfall 001 when DWF conditions exist; and		
	d. Limiting discharge of ECF effluent from Outfall001 to a maximum rate of 225 mgd; provided that any discharge of ECF effluent from Outfall 001 shall not occur except for the purpose of maintaining the availability of storage volume in the BPT to the extent that the occurrence of CSOs is minimized.		
(1a)	Flows reported for locations required under this per produces information to report flows by direct mete	mit are based on ring or through c	flows metered by the Blue Plains metering system. This systen alculations using the results from multiple meters.

- N/A means not applicable. 6
- N/L means no Limit, monitoring only. (\mathfrak{C})
- Collect one grab sample every two (2) hours and flow composite samples during each calendar day discharge. Analyze and obtain the concentration of the composited sample obtained each calendar day. Determine the mass load discharged for each day using the daily (4)

(10) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	 concentration and the average flow rate recorded for that calendar day. Sum the daily mass loads obtained each calendar year to obtain the total mass load discharged in the calendar year. See Part IV, Section C for additional Chlorination/Dechlorination monitoring requirements. All pollutant sampling shall commence no later than two (2) hours. The two hour delay does not apply to flow monitoring. All pollutant sampling ses than two (2) hours. The two hour delay does not apply to flow monitoring. Authorization of Co-related bypasses under this provision may be modified or terminated when there is a substantial increase in the wollne or character of pollutants being introduced into the POTW. Permittee shall provide notice to the permitting authority of the discharges for Outfall 001 within 24 hours of the commencement of the discharge. See Part IV, Section F for additional PCB monitoring and reduction requirements. Mar the ELF is placed in operation, the permittee shall evaluate performance in accordance with Part IILD 4.a. through e. The performance assessment for Outfall 001 shall be submitted with each application for permit reissuance.
	(5) (7) (7) (6) (9) (9) (9) (1)

SECTION D. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS OUTFALL 019⁽¹⁾

Outfall 019 is the discharge from the Northeast Boundary Swirl Concentrator Facility to the Anacostia River. Treatment includes: screening, swirl concentration, chlorination and dechlorination. These effluent limitations and monitoring requirements become effective from issuance date through the expiration date of this permit. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	「いたない」の		Discharge Limitat	tions	Monitoring Requiremen	
	Kg/day (b/day)	Other units (speci	ify)	Measurement	Sample Type
	Ave Monthly	Ave Weekly	Ave Monthly	Ave Weekly	Frequency	(9)
Flow/day (mgd)	N/A (2)	N/A	N/L (3)	N/L	Continuous	Measured
Total Suspended Solids (mg/l)	N/A	N/A	N/L	N/L	Per discharge	Composite (4)
E.coli (cfu/100 ml)	N/A	N/A	N/L	N/L	Every 8 hours,	Grab
2			,		urst sample within 2 hours	14
			2 6 3		of beginning of discharge	
					0	
Total Residual	N/A	N/A	N/L	N/L	Every 2 hours	Grab
Chlorine (mg/l) (5)						
Nitrate(NO ₃)	N/A	N/A	NL	N/L	per discharge	24-hr. Composite
Total Kjeldahl Nitrogen (7)	500			45 1	-	(4)
Total	N/A	N/A	N/L	N/L	per discharge	24-hr. Composite
Total	N/A	N/A	N/L	N/L	per discharge	24-hr. Composite
Phosphorus				34 131	2	(4)
Carbonaceous	N/A	N/A	N/L	N/L	Per Discharge	Composite (4)
Biological Oxygen Demand		×	3			

The Northeast Boundary Swirl Facility operates during wet weather events that produce flows which exceed the capacity of The the upstream Eastside Interceptor. The facility provides treatment for up to 400 mgd of combined sewer overflow. facility provides screening of influent combined sewage, concentration of solids in the swirl tanks, and disinfection and 3

dechlorination of effluent. The concentrated, solids-bearing underflow from the swirl is pumped by the Eastside Pumping Station to the Blue Plains Wastewater Treatment Plant.

- (2) N/A Not Applicable
- (3) N/L No Limit, monitoring only
- Collect one grab sample every two (2) hours beginning within 2 hours of the start of the discharge, composite samples up to a within 2 hours of the start of the discharge permittee shall explain in writing why it was unable to collect the required sample. The monthly average shall be determined by dividing the daily average event or events concentration by the total number of maximum of 24 hours. Permittee shall analyze the composited sample. If the permittee is unable to collect the first sample days the event(s) occurred per month. (1
- See Part IV.C for additional Chlorination/Dechlorination monitoring requirements. 3
- All sampling shall commence no later than two (2) hours after a discharge has begun to occur at Outfall 019. Samples are not required for discharges lasting less than (2) two hours. The two hour delay does not apply to flow monitoring, which is required to be continuous. 9
- The permittee may either monitor for TKN or Ammonia, whichever sampling is currently being performed. E

Note: The rate of flow necessary to trigger the Northeast Boundary Swirl is 15 mgd. The purpose of this facility is to achieve maximum to a smaller flow which can be handled by the available capacity of the Eastside Pump Station. The North East Boundary Swirl diversion of flow at the Structure 24 Dams on the Northeast Boundary Sewer, and to concentrate the pollutants in that flow Facility has a total design flow rate of 400 mgd.

PART II. STANDARD CONDITIONS FOR NPDES PERMITS

SECTION A. GENERAL CONDITIONS

1. <u>Duty to Comply</u>

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and may result in an enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

2. Water Quality Standards Compliance

Consistent with the Clean Water Act, Section 301(b)(1)(C), the permittee may not discharge in excess of any limitation necessary to meet applicable water quality standards including those of the District of Columbia set forth in Chapter 21 of the District of Columbia Municipal Regulations, Chapter 11 (2006).

The limitations and conditions in this permit for the discharges from Blue Plains and the CSS are limitations that are necessary to meet the applicable water quality standards, including those of the District of Columbia referenced above.

3. Penalties for Violations of Permit Conditions

a. Criminal Penalties

i. Negligent Violations. Section 309(c) (1) of the Clean Water Act (CWA), 33 U.S.C. § 1319(c) (1), provides that any person who negligently violates any permit, condition or limitation implementing Sections 301, 302, 306, 307, 308, 318 or 405 of the CWA, is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than 1 year or both.

ii. Knowing Violations. Section 309(c)(2) of the CWA, 33 U.S.C. § 1319(c)(2), provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318 or 405 of the CWA is subject to a fine of not less than \$5,000 nor more than \$50,000 per day of violation, or by imprisonment for not more than 3 years or both.

iii. Knowing Endangerment. Section 309(c)(3) of the CWA, 33 U.S.C. § 1319(c)(3), provides that any person who knowingly violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318 or 405 of the CWA, and knows at the time that he is placing another person in imminent danger of death or serious bodily injury is subject to a fine of not more than \$250,000, or by imprisonment for not more than 15 years or both.

iv. False Statement. Section 309(c)(4) of the CWA, 33 U.S.C. § 1319(c)(4), provides that any person who knowingly makes any false material statement, representation or certification in any application, record, report, plan or other document filed or required to be maintained under the Act or who knowingly falsifies, tampers with, or renders inaccurate, any monitoring device or method required to be maintained under the Act, shall upon conviction, be punished by a fine of not more than \$10,000 or by imprisonment for not more than 2 years, or by both. If a conviction is for a violation committed after a first conviction of such person under this paragraph, punishment shall be by a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years or by both. False statements concerning matters with the jurisdiction of a federal agency are also punishable pursuant to 18 U.S.C. § 1001 by a prison term of up to five years, a fine imposed under Title 18, Crimes and Criminal Procedure, of the United States Code, or both.

b. Civil Penalties

i. The CWA provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 318 or 405 of the Act is subject to a civil judicial penalty not to exceed \$37,500 per day for each violation.

c. Administrative Penalties.

i. The CWA provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318 or 405 of the Act is subject to an administrative penalty as follows:

(a) Class I Penalty. Section 309(g)(2)(A) provides that a civil penalty shall not exceed \$16,000 per violation nor shall the maximum amount exceed \$37,500.

(b) Class II Penalty. Section 1319(g)(2)(A) provides that a civil penalty shall not exceed \$16,000 per violation nor shall the maximum amount exceed \$177,500.

4. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

5. Permit Actions

In accordance with 40 C.F.R. § 122.62, this permit may be modified, revoked and reissued, or terminated for cause including, but not limited to, the following:

a. Violation of any terms or conditions of this permit;

- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge;
- d. Information newly acquired by the Agency, and which was unavailable at the time of reissuance, and would have justified the application of different permit conditions at the time of issuance, including but not limited to the results of the studies, planning, or monitoring described and/or required by this permit;
- e. Facility modifications, additions, and/or expansions;
- f. Any anticipated change in the facility discharge, including any new significant industrial discharge or changes in the quantity or quality of existing industrial discharges that will result in new or increased discharges of pollutants; or
- g. A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination.

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. When a permit is modified, only conditions subject to modification are reopened.

6. Toxic Pollutants

Notwithstanding Section A.4 above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under section 307(a) of the Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition and the permittee so notified.

The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

7. Civil and Criminal Liability

Except as provided in permit conditions on "Bypassing" (Section B.2) and "Upsets" (Section B.3), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

8. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

9. <u>State Laws</u>

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Act.

10. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

11. Severability

The provisions of this permit are severable, and if any provisions of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

12. Transfer of Permit

In the event of any change in ownership or control of facilities from which the authorized discharge emanates, the permit may be transferred to another person if:

- a. The current permittee notifies the EPA, in writing, of the proposed transfer at least 30 days in advance of the proposed transfer date;
- b. The notice includes a written agreement, between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
- c. The EPA does not notify the current permittee and the new permittee of intent to modify, revoke and reissue, or terminate the permit and require that a new application be submitted.

13. Construction Authorizations

This permit does not authorize or approve the construction of any onshore or offshore physical structures or facilities or the undertaking of any work in any navigable waters.

14. <u>Reopener Provision</u>

This permit may be modified or revoked and reissued as provided pursuant to 40 CFR § 122.62 and § 124.5 to:

a. include new or revised conditions developed to comply with any State or Federal law or regulation that addresses CSOs that is adopted or promulgated subsequent to the effective date of this permit. This includes, but is not limited to: Water Quality Standards and Total Maximum Daily Loads (TMDLs);

b. to include new or revised conditions if new information, not available at the time of permit issuance, indicates that CSO controls imposed under the permit have failed to ensure the attainment of State WQS;

c. include new or revised conditions based on new information resulting from implementation of the Long Term Control Plan (LTCP) referenced at Part III.C of this permit.

d. include new or revised conditions based on the results of Endangered Species Act Section 7 consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (FWS, NMFS or collectively, the "Services").

In addition, this permit may be modified or revoked and reissued for any reason specified in 40 C.F.R. §122.62.

15. Endangered Species

The United States Fish and Wildlife Service (FWS) has indicated that there are no Federally listed threatened or endangered species subject to its jurisdiction downstream of the Blue Plains outfalls, in the vicinity of the Potomac River in the District of Columbia and Maryland. The National Marine Fisheries Service (NMFS) has indicated that the endangered shortnose sturgeon occurs in the Potomac River, including within the District of Columbia and that several species of endangered sea turtles (leather back sea turtles, loggerhead turtles, Kemp's ridley and green sea turtles),are known to be present in the Chesapeake Bay. Pursuant to Section 7 of the Endangered Species Act, EPA and NMFS have consulted on this permit and NMFS has concurred with EPA's determination that that issuance of the permit is "not likely to adversely affect" listed species under NMFS jurisdiction. Wastewater discharges, construction, or any other activity that adversely affects a federally listed endangered or threatened species are not authorized under the terms of this permit.
The permit limits and monitoring required by this permit will allow further evaluation of potential effects on the threatened and endangered species. EPA requires that the permittee submit to NMFS an annual compilation of the Discharge Monitoring Reports (DMRs), which may be used by NMFS to further assess effects on endangered or threatened species. If these data indicate it is appropriate, requirements of this NPDES permit may be modified to prevent adverse impacts on habitats or endangered and threatened species.

The set of DMRs for the calendar year are to be submitted by February 15 of the following year to:

The National Marine Fisheries Service Protected Resource Division 1 Blackburn Drive Gloucester, MA 01930 Attention: Danielle Palmer

DC Department of the Environment Fisheries and Wildlife Division 1200 First, N.E. 5th floor Washington, DC 20002 Attention: Sylvia Whitworth

SECTION B. OPERATION AND MAINTENANCE OF POLLUTION CONTROLS

1. Proper Operation and Maintenance

The permittee shall at all times properly operate, inspect and maintain all facilities and systems of treatment and control (and related appurtenances, including but not limited to, sewers, intercepting chambers, interceptors, combined sewer overflows, pumping stations and emergency bypasses) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation and maintenance of back-up or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit.

2. **Bypass of Treatment Facilities**

- a. Definitions
 - i. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.

- ii. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass.
- b. Bypass not exceeding limitations
 - i. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs c. and d. of this section.

c. Notice

- i. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.
- ii. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Section D.6 (24-hour notice).
- d. Prohibition of bypass.
 - i. Bypass is prohibited and the EPA may take enforcement action against a permittee for bypass, unless:
 - (a) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if the permittee could have installed adequate backup equipment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (c) The permittee submitted notices as required under Paragraph 2.c of this section.
 - ii. The EPA may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed above in paragraphs (a), (b), and (c) of this section.

3. Upset Conditions

c.

- a. Definition: "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- Effect of an upset: An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of Paragraph 3.c of this section are met. Administrative determination by the Agency on upset claims of the permittee, made before commencement of an action for noncompliance, are not final administrative actions and therefore subject to judicial review.
 - Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
 - i. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - ii. The permitted facility was at the time being properly operated;
 - iii. The permittee submitted notice of the upset as required in Section D.6; and
 - iv. The permittee complied with any remedial measures required under Section A.3.
- d. Burden of proof: In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

SECTION C. MONITORING AND RECORDS

1. <u>Representative Sampling</u>

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points as defined at Part II, Section C.11 of this permit. Monitoring points shall not be changed without notification to and the approval of the EPA.

2. Flow Measurements

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to insure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated and maintained to insure that the accuracy of the measurements is consistent with the accepted capability of that type of device.

3. Monitoring Procedures

Monitoring must be conducted according to test procedures approved under 40 C.F.R. Part 136, unless other test procedures have been specified in this permit. Monitoring data required by this permit shall be summarized on an average monthly or 7 consecutive day basis or as indicated for Mercury in Part I.B. Calculations shall be based on the average daily flow.

4. Reporting of Monitoring Results

Monitoring results must be reported on a Discharge Monitoring Report (DMR)form(EPA No. 3320-1). DMRs shall be submitted to EPA on a monthly basis. Monitoring results obtained during the previous month shall be summarized and reported on a DMR form postmarked no later than the 28th day of the following month. Copies of DMRs signed and certified as required by Section D.10, and all other reports required by Part II, Section D, Reporting Requirements shall be submitted to the EPA and to the District of Columbia Department of the Environment (DC DOE) at the following addresses:

U.S. Environmental Protection Agency, Region III NPDES Discharge Monitoring Reports (3WP31) 1650 Arch Street Philadelphia, Pennsylvania 19103

and

DC Department of the Environment Water Quality Division 1200 1st Street N.E., 5th Floor, Washington DC 20002

In addition, in accordance with Part II.A.14 above, by February 15 of the subsequent year, all DMRs for the previous year shall be sent to the NMFS.

5. Monitoring and Analytical Equipment Maintenance

The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals frequent enough to insure accuracy of measurements and shall insure that both calibration and maintenance activities will be conducted.

6. <u>Analytical Quality Control</u>

An adequate analytical quality control program, including the analyses of sufficient standards, spikes, and duplicate samples to insure the accuracy of all required analytical results, shall be maintained by the permittee or designated commercial laboratory.

7. Additional Monitoring by the Permittee

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 C.F.R. 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR form. Such frequency shall also be indicated.

8. <u>Retention of Records</u>

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. Records for sewage sludge monitoring shall be retained in accordance with Part IV, Section B of this permit. These periods may be extended by request of the EPA at any time.

9. <u>Record Contents</u>

Records of monitoring information shall include:

- a. The date, exact place, time and methods of sampling or measurements;
- b. The individual(s) who performed the sampling or measurements;
- c. The date(s) analyses were performed;
- d. The individual(s) who performed the analyses;
- e. The analytical techniques or methods used; and
- f. The results of such analyses.

10. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- a. Enter upon the permittee's premises where a regulated facility activity is located or conducted, or where records must be kept under the conditions of this permit.
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit;
- d. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

SECTION D. REPORTING REQUIREMENTS

1. <u>Planned Changes</u>

The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility. The permittee may submit to the permitting authority requests for modification of this provision in accordance with future promulgated regulations.

2. <u>Anticipated Noncompliance</u>

The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

3. <u>Transfers</u>

This permit is not transferable to any person except after notice to EPA as specified in Part II, Section A, Paragraph 11. EPA may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Clean Water Act. Any transfer must otherwise be in accordance with 40 C.F.R. §122.61.

4. Monitoring Reports

Monitoring results shall be reported at the intervals and in the form specified in Part II, Section C, Paragraph 4 (Reporting of Monitoring Results).

5. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date. Any reports of noncompliance must include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

6. <u>Twenty-Four Hour Reporting</u>

The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the noncompliance. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the noncompliance. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; the steps taken or planned to reduce, eliminate, prevent recurrence of the noncompliance, and the steps taken to minimize any adverse impact to navigable waters. The following shall be included as information which must be reported within 24 hours:

- a. Any unanticipated bypass which exceeds any effluent limitation in the permit.
- b. Any upset which exceeds any effluent limitation in the permit.
- c. Violation of a maximum daily discharge limitation for any of the pollutants listed by EPA in the permit, to be reported to EPA within 24 hours.

The EPA may waive the written report on a case-by-case basis if the oral report has been received within 24 hours and the EPA determines that the noncompliance does not endanger health or the environment.

7. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under Section D, Paragraphs 1, 4, 5, and 6 at the time monitoring reports are submitted. The reports shall contain the information listed in Paragraph 6.

8. Duty to Provide Information

The permittee shall furnish to the EPA, within a reasonable time, any information which the EPA may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the EPA, upon request, copies of records required to be kept by this permit.

9. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. 40 C.F.R. §122.21(d). The application shall be submitted at least 180 days before the expiration date of this permit. The Director may grant permission to submit an application less than 180 days in advance but no later than the permit expiration date. In the event that a timely and complete reapplication has been submitted and the Director is unable, through no fault of the permittee, to issue a new permit before the expiration date of this permit, the terms and conditions of this permit are automatically continued and remain fully effective and enforceable.

10. Signatory Requirements

All applications, reports or information submitted to the Director shall be signed and certified as required by 40 C.F.R. 122.22. Knowingly making false statements, representations, or certifications is subject to penalty.

11. Availability of Reports

Unless a confidentiality claim is asserted pursuant to 40 C.F.R. Part 2, all reports submitted in accordance with the terms of this permit shall be available for public inspection at the offices of the Director. If a confidentiality claim is asserted, the report will be disclosed only in accordance with the procedures in 40 C.F.R. Part 2. As required by the Act, permit applications, permits and effluent data shall not be considered confidential.

12. <u>Penalties for Falsification of Reports</u>

The Clean Water Act at Section 309 (c)(4), provides that any person who knowingly makes any false representation or certification in any record or other document filed or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, shall, upon a first conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than 2 years, or by both. For a conviction of a person for a violation committed after a first conviction of such person, punishment shall be by fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or both.

13. Correction of Reports

If the permittee becomes aware that it submitted incorrect information in any report to the Director, it shall promptly submit the correct information.

SECTION E. PUBLIC ACCOUNTABILITY

The permittee shall undertake an overall program of public accountability, including quarterly summary reports to inform all users of the sanitary system and local government officials and the general public of the extent of actual compliance with permit requirements and conditions. To facilitate public information, the permittee shall use available means such as posting quarterly summary reports on its website, inserts with water and sewer bills or other means to distribute this information to the public. In addition, the permittee shall include in this report information on the efficacy of all(on and off site) operations used in the disposal of sludge from the Blue Plains WWTP. Reports shall be provided to at least the following:

Secretary, Maryland Department of the Environment Executive Director, Virginia Dept. of Environmental Quality Director, DC Department of the Environment Chief of Maintenance, National Park Service Director, Interstate Commission of the Potomac River Basin Director, Metropolitan Washington Council of Governments Director, Water Protection Division, US EPA, Region III

PART III. COMBINED SEWER SYSTEM

SECTION A. GENERAL

The permittee operates a Combined Sewer System (CSS). The CSS includes the combined sewer overflow (CSO) and other Outfalls listed below as indicated by footnotes. During the period beginning with the permit effective date and lasting until the permit expiration date, the permittee is authorized to discharge from the CSOs listed below, as specified in the following paragraphs and sections.

Outfall	Overflow	Receiving	Latitude and
(1)	Structure	Stream	Longitude
9. de 5. de	Location	時時 印度市民市 19 年後	(approximate)
003	Bolling AFB	Potomac River	N 38 49 51
	1 H ¹⁰ H	· · · · ·	W 77 01 32
004 (2)	Emergency relief for	Anacostia	N 38 51 57
	Poplar Point Sewage	River,	W 77 00 18
	Pumping Station, SE	East Side	
005	Chicago Street and	Anacostia	N 38 52 08
	Railroad Station, SE	River,	W 76 59 36
_ 58		East Side	
006	Good Hope Road, West	Anacostia	N 38 52 16
	Of Nichols Ave.,SE	River,	W 76 59 28
	-	East Side	
007	13 th Street and Ridge	Anacostia	N 38 52 16
11 24	Place,SE	River,	W 76 59 19
		East Side	
008 (2)	Anacostia Ave. west	Anacostia	N 38 53 29
8 III 184	of Blaine St. NE –	River,	W 76 57 46
	relief for Anacostia	East Side	
	Main Interceptor		
009	2 nd Street, 300 feet	Anacostia	N 38 52 21
2	North of N Place, SE	River,	W 77 00 15
		West Side	
010	O Street Sewage	Anacostia	N 38 52 23
	Pumping Station, SE	River,	W 77 00 14
		West Side	5
011	South of Main Sewage	Anacostia	N 38 52 22
	Pumping Station, SE	River,	W 77 00 17
	(pumped overflow)	West Side	
011a	South of Main Sewage	Anacostia	N 38 52 22
	Pumping Station, SE	River,	W 77 00 17
	(gravity overflow)	West Side	
012	North of Main Sewage	Anacostia	N 38 52 22
	Pumping Station, SE	River,	W 77 00 09
		West Side	

013	4 th and N Streets, SE	Anacostia	N 38 52 22
		River,	W 77 00 09
		West Side	
014	6 th and M Streets, SE	Anacostia	N 38 52 23
	,	River.	W 76 59 09
		West Side	
015	9 th and M Streets SE	Anacostia	N 38 52 18
015		River	W 76 59 38
016	12 th and M Streets SF	Anacostia	N 38 52 20
010		River	76 59 28
		West Side	10 59 20
017	14 th and M Streets SE	Anacostia	N 38 52 31
017	14 and Wi Streets, SE	River	W 76 59 28
010	Domory Circle and	Appagatio	N 28 52 20
018	Democriticand	Anacostia	IN 30 32 39
010	Pennsylvania Ave, SE	River	W /0 38 3/
019	NE Boundary Trunk,	Anacostia	N 38 52 21
	Vic. Of 25 th and E	Kiver,	w // 00 09
	Sts., SE	West Side	
020	23 rd Street, North of	Potomac River,	N 38 53 10
	Constitution Ave, NW	East Side	W 77 03 03
021	Northeast of	Potomac River,	N 38 53 19
	Roosevelt Bridge, NW	East Side	W 77 03 11
022	27 th and K Streets, NW	Potomac River,	N 38 53 52
		East Side	W 77 03 27
023	Abandoned (Formerly	Potomac River,	Not Available
	29 th And K Streets, NW)	East Side	
024	30 th and K Streets, NW	Potomac River,	N 38 54 05
		East Side	W 77 03 31
025	31 st and K Streets, NW	Potomac River.	N 38 54 03
020		East Side	W 77 03 44
026	Wisconsin Avenue and	Potomac River	N 38 54 06
020	K St NW	East Side	W 77 03 47
027	Water Street West of	Potomac River	N 38 54 13
027	Street NW	Fast Side	W 77 03 57
0.00	26 th and M Streate NW	Dast Side	N 29 54 12
028	36 and M Streets, N w	Fotomac River,	IN 30 34 13
000		East Side	W // 04 18
029	Canal Road 1000 feet	Potomac River,	N 38 49 00
	east of Rock Creek,	East Side	W 77 01 40
	NW		
030	Abandoned (Formerly	Potomac River,	Not Available
	Foxhall and Canal	East Side	
	Roads, NW)		·
031	Pennsylvania Avenue,	Rock Creek,	N 38 54 23
	East Rock Creek, NW	East Side	W 77 03 22
032	26 th and M Streets, NW	Rock Creek,	N 38 54 22
		East Side	W 77 03 17
033	N Street extended	Rock Creek.	N 38 54 26
	West of 25 th Street.NW	East Side	W 77 03 18

034 🔹	23 rd and O Streets, SW	Rock Creek,	N 38 54 36
		East Side	W 77 03 05
035	22 nd Street south of Q	Rock Creek,	N 38 54 33
	Street, NW	East Side	W 77 03 00
036	22 nd Street South of Q	Rock Creek,	N 38 54 38
•	Street, NW	East Side	W 77 03 06
037	Northwest of Belmont	Rock Creek,	N 38 55 02
	and Rock Creek and	East Side	W 77 03 04
	Potomac Parkway		-
038	North of Belmont Road,	Rock Creek,	N 38 55 08
	east of Kalorama	East Side	W 77 03 05
	Circle, NW		21
039	Connecticut Avenue	Rock Creek,	N 38 55 18
	East of Creek, NW	East Side	W 77 02 56
040	Biltmore Street	Rock Creek,	N 38 55 40
	extended east of Rock	East Side	W 77 02 43
	Creek, NW		
041	Ontario extended and	Rock Creek,	N 38 55 40
	Rock Creek Parkway	East Side	W 77 02 43
042	Harvard Street and	Rock Creek	N 38 55 42
	Rock Creek Parkway, NW		W 77 02 43
043	Adams Mill Road South	Rock Creek,	N 38 55 42
	of Irving Street, NW	East Side	W 77 02 42
044	Kenyon Street and	Rock Creek	N 38 55 44
	Adams Mill Road, NW	East Side	W 77 02 44
045	Adams Mill Road and	Rock Creek.	N 38 55 50
	Lamont Street, NW	East Side	W 77 02 49
046	Park Road south of	Rock Creek,	N 38 56 06
р.	Piney Branch Parkway,	East Side	W 77 02 45
	NW		
047	Ingleside Terrace	Rock Creek,	N 38 56 10
	extended and Piney	East Side	W 77 02 36
	Branch Parkway		
048	Mt. Pleasant Street	Rock Creek,	N 38 56 15
	extended and Piney	East Side	W 77 02 23
	Branch Parkway	2. D	
049	Piney Branch and	Rock Creek,	N 38 56 12
	Lamont Street, NW	East Side	W 77 02 19
050	28 th Street west of	Rock Creek,	N 38 54 14
	16 th Street, NW	East Side	W 77 03 23
051	Olive Street extended	Rock Creek.	N 38 54 32
-	and Rock Creek	East Side	W 77 03 11
	Parkway,NW		
052	O Street extended and	Rock Creek.	N 38 54 31
	Rock Creek Parkway, NW	West Side	W 77 03 16
053	O Street west of Rock	Rock Creek.	N 38 55 18
	Creek Parkway, NW	West Side	W 77 01 40

054	West Side of Rock	Rock Creek,	N 38 54 34
	Creek 300 ft. south	West Side	W 77 03 02
	of Mass.Ave, NW	<u> </u>	
055	Abandoned	10 II	
056	Normanstone Drive	Rock Creek,	N 38 55 02
	extended west of Rock Creek, NW	West Side	W 77 03 04
057	28 th Street extended	Rock Creek,	N 38 55 18
	West of Rock Creek, NW	West Side	W 77 03 09
058	Connecticut Avenue and	Rock Creek,	N 38 55 16
	Rock Creek Parkway, NW	West Side	W 77 03 02
059	Luzon Valley	Rock Creek,	N 38 57 54
	[SEPARATED]	West Side	W 77 02 13
060	P St and 26 th St, NW	Rock Creek,	Not Available
		West Side	112
061 (2)	Hayes St. & Anacostia	Tributary to	Not Available
3	Ave NE – Emergency	Anacostia –	2
	relief for Upper	East Side	
-	Anacostia Sewage		
	Pumping Station		
062 (2)	Earl Place, NE -	Tributary to	Not Available
	Emergency relief for	Anacostia –	
	Earl Place Sewage	West Side	
	Pumping Station	E E E E E	- A

(1) All outfalls are CSO outfalls unless noted otherwise.

(2) These outfalls are recognized in the permit as emergency relief locations; they are not CSO Outfalls. Discharges are prohibited under Part III.B.1.e(i) and are reportable under Part III.B.1.e(iii) and Part II.D.2 and 7.

SECTION B. TECHNOLOGY-BASED CSS REQUIREMENTS

The permittee is required to control combined sewer overflows in accordance with the CSO Policy (April 1994). The permittee shall comply with the nine minimum technology-based conditions set forth below.

1. <u>Nine Minimum Controls (NMC) Program</u>

i.

- a. Operation and Maintenance The permittee shall implement proper operation and maintenance programs for the sewer system and all CSO outfalls, in accordance with the program set forth below, with consideration given to the following: regular sewer inspections, sewer, catch basin and regulator cleaning; equipment and sewer collection system repair or replacement, where necessary; and disconnection of illegal connections.
 - Maintain a CSS inventory. Prepare an inspection plan and submit updated inventory information with each annual report as follows:
 - List of CSO outfalls and emergency relief locations from Part III,Section A, COMBINED SEWER SYSTEM - GENERAL of this permit.
 - (b) Combined Sewer Overflow Structures. Include designation, location, description of operation, capacity and diagram or drawing of each structure. Include similar information for each inflatable dam.
 - (c) Outfall Structures. Include designation, location and description of each structure Include a diagram or drawing and a picture as available and practicable. Describe outfalls characteristic at high and low tide (e.g., submerged, partially submerged, not submerged). Identify whether or not each structure is equipped with a tide gate.
 - (d) Supervisory Control and Data Acquisition (SCADA) System. Include a functional description, and list of information provided by the SCADA system for the CSS.
 - (e) Rain Gages. List location and description of rain gauges installed Within the CSS.
 - ii. Inspect CSS control structures (regulator structures and tide gates) at least once per month.
 - iii. Inspect pumping stations at least once per month.

- iv. Inspect Northeast Boundary Swirl Facility at least once per month.
- v. Inspect inflatable dams and CSS SCADA system at least once per month.
- vi. Develop an inspection program for the major combined sewers where each major combined sewer is inspected on a rotating schedule of sufficient frequency to maintain capacity requirements.
- vii. Inspect outfall structures annually.
- viii. Following rehabilitation, operate and maintain the Main, "O" Street,
 Potomac and Poplar Point and Eastside Pumping stations to provide firm
 pumping capacities of 240 MGD, 45 MGD, 460 MGD, 45 MGD and 45
 MGD respectively.
- b. Use Collection System for Storage
 - i. Operate and maintain inflatable dams to optimize storage in the CSS.
- c. Pretreatment Program
 - i. Use pretreatment regulations to control any industrial discharges that may be identified as impacting CSOs.
 - Use pretreatment regulations to require permitted significant industrial users (SIUs) discharging directly to the CSS to establish management practices to limit (e.g., use of control, detention or prohibition) batch discharges during wet weather conditions to the maximum extent feasible. Conduct an annual inspection of the above users to identify the existence of any batch discharges. Evaluate batch discharges identified to determine whether and to what extent limitations are appropriate during wet weather, taking into consideration volume, frequency, characteristics and the need to protect life and property.
- d. Maximize Flow to Blue Plains

i. During wet weather, operate the pumping stations and collection system to deliver the maximum flow possible to Blue Plains within the constraints of the pumping stations, configuration and capacity of the collection system, and the capacity of the treatment plant. Develop a reporting system to show that operation of the pumping stations has been maximized during wet weather and that the maximum flow possible is being delivered to Blue Plains for treatment within the constraints of the pumping stations, collection system and treatment plant. Report such operations for each wet weather event.

ii. Maintain pumps to maximize flow to Blue Plains.

iii. The permittee shall ensure that the collection system has the capacity to convey flows at a rate totaling at least 1076 mgd to Blue Plains for treatment.

e. Eliminate Dry Weather Overflows (DWOs)

i. Dry weather overflows from CSO outfalls are prohibited. When the permittee detects a dry weather overflow, the permittee shall begin corrective action immediately. The permittee shall inspect the dry weather overflow each subsequent day until the overflow has been eliminated.

ii. Maintain a program to enlist public support for reporting DWOs.

iii. Receive reports of DWOs on a 24-hour basis. Each dry weather overflow confirmed by the Permittee shall be reported to District of Columbia Department of the Environment (DDOE) and EPA Region III within 24 hours.

f. Control Solid and Floatable Materials in CSOs

i.

Screen pumped overflows at the Main and O Street Pumping Stations.

ii. Screen flow into the Northeast Boundary Swirl Facility.

iii. Operate and maintain end of pipe solid and floatable BMP demonstration controls until termination of the demonstrations at locations as follows:

- (a) End of pipe netting system at CSO Outfall 018. Bar rack at CSO Outfall 041 at Structure Number 62.
- (b) Bar rack at CSO Outfall 040 at Structure 61.
- (c) Inspect BMP demonstration controls at least once per month. Clean BMPs following wet weather events on a schedule that maintains capture functions.

iv. Clean 85 percent of the 8200 catch basins in the combined sewer area at least annually. Inspect catch basins in CSO areas tributary to the Anacostia River at least 2 times per year and clean more frequently as identified by inspections.

The Anacostia River CSO areas inspection schedule is an interim schedule until permanent solids and floatable control facilities are placed in operation as part of the Long Term Control Plan. As permanent facilities are placed in operation, in each combined sewer area, the permittee may petition EPA to reduce the cleaning frequency to once per year in that area.

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- v. Operate the Anacostia River Floatable Debris Removal Program. This program comprises pick up of debris by skimmer and support boats on a regular weekly schedule, weather and river conditions permitting.
- vi. Advise the D.C. Department of Public Works (DPW) and the National Park Service (NPS) in writing at least once per year on methods and systems to maximize litter control in the CSS, targeting neighborhoods that contribute disproportionate amounts of trash to the CSS. Document these efforts in quarterly CSO reports.
- vii. Implement an ongoing, appropriate bi-lingual (English and Spanish) public education program aimed at reducing litter in the CSO sewershed, including public service announcements, public school presentations and stenciling programs.
- viii. Prepare lesson plan materials to educate school children on the ways and means for citizens to assist in reducing the amount of solid and floatable materials in CSOs. Make the materials available to D.C. Public elementary schools for their use. Offer to make presentations to schools on the lesson plan and the CSO program at up to 6 occasions per year.

Pollution Prevention

i.

g.

- Conduct regular public education programs to advise citizens of proper disposal of substances (e.g., household wastes, plastics, paper products, oils, leaves and the use of fertilizer).
- ii. Conduct tours of Blue Plains to educate public on aspects of CSO control that can be enhanced with public assistance.
- iii. Use the pretreatment program to encourage industrial waste reduction through recycling and improved housekeeping.
- iv. Notify responsible agencies to enforce regulations that prohibit entrance into the CSS of any substance that may impair or damage the function and performance of collection and treatment systems.
- v. Coordinate where feasible and practicable WASA's pollution prevention programs with those of D.C. government agencies such as the following partial list of pollutant prevention programs conducted by District of Columbia government agencies:
 - (a) Department of Public Works Programs
 - (i) Curbside recycling
 - (ii) Leaf pickup

- (iii) Public trash receptacles
- (iv) Household hazardous waste collection
- (v) Residential bulk refuse collection and self-Service disposal
- (vi) Campaign against rats
- (vii) Support of community cleanup programs ("Helping Hand")
- (viii) Enforcement of illegal dumping operations
- (ix) Street cleaning and sweeping
- (x) Public education for DPW Solid Waste Education And Enforcement Program ("SWEEP")
- (b) Department of Environment Programs
 - (i) Public education and assistance
 - (ii) Enforcement of storm water and erosion/sedimentation control regulations

h. Public Notification

i. Operate a light on the Anacostia River and a light on the Potomac River to notify river users of CSO events. Lights will be operated by a signal from a epresentative CSO outfall on each river. A light (color A) will be illuminated during a CSO occurrence and a second light (color B) will be illuminated for 24 hours after a CSO has stopped.

ii. Maintain a website with information on: (a) nature of CSO discharges; (b) locations of CSOs; (c) potential health threats of CSOs; (d) record of CSO events by outfall with number, average duration and volume for the prior three month calendar quarter based on modeled results; (e) description of light system on the Anacostia River and Potomac River that advises river users of times that CSOs are actually occurring; and (f) nature and duration of conditions potentially harmful to users of receiving waters during and after a CSO event.

iii. Prepare and distribute semi-annually in sewer bills an informational pamphlet with information similar to that listed under h.ii above.

iv. Distribute a pamphlet semi-annually to locations (e.g., boathouses, marinas, water sports shops) frequented by receiving water users. The pamphlet shall include information similar to that listed under h.i above. Distribution will be to the extent permitted by owners of the locations.

v. Prepare and maintain an information bulletin to distribute to callers requesting information on the CSS and CSOs.

vi. Include updates and status of CSS and CSO plans and programs in information distributed under h. i, ii, iii, and iv above.

vii. Maintain warning signs at all CSOs.

i. Monitoring

i. Operate and maintain the SCADA system that monitors activation of selected CSO outfalls.

ii. Monitor and record the condition of the bar racks at the Main and O Street Pumping Stations storm,/CSO pumps to assess their ability to trap floatables.

iii. Monitor and record debris removed by the Anacostia River Floatable Debris Removal Program.

iv. Monitor and record flow, screenings removal and disinfection and dechlorination at the Northeast Boundary (NEB) Swirl Facility.

v. Monitor and record demonstration floatables removal; (a) at the end of pipe netting system at Outfall 018; (b) at bar rack at Outfall 041; and c) at the bar rack at Outfall 040 for the duration of the demonstration project.

vi. Monitor and record rainfall at a minimum of four 4) locations in the CSS. Locate rain gages at sites which are different from those used in the development of the LTCP. Report the number, volume and average duration of overflows for each active CSO outfall. The information shall be prepared using the latest model of the CSS, based on the measured storm event data and the operation of the inflatable dams for the previous calendar year.

SECTION C. Water Quality Based Combined Sewer System (CSS) Requirements

- 1. The Long Term Control Plan (LTCP) for the District of Columbia CSS including supplements thereto, provides for the control of CSO discharges to comply with the District of Columbia water quality standards in the Anacostia River, Rock Creek and its Piney Branch tributary and the Potomac River.
- 2. The permittee shall implement and effectively operate and maintain the CSO controls identified in the LTCP and any supplements thereto.
- 3. The LTCP for the District of Columbia CSS provides for the control of CSO discharges to the Anacostia River, Rock Creek and its Piney Branch tributary and the Potomac River. The LTCP facilities for controlling discharges to the above-named receiving waters include, among other things, diversion structures, a system of underground storage tunnels, pumping stations and outfall and overflow structures. The facilities shall, within the capacities provided, divert combined sewer flows to the storage tunnels, store combined sewer flow and convey stored combined sewer flow to Blue Plains for treatment.

- 4. The permittee shall effectively operate and maintain the LTCP CSO control facilities in accordance with the limitations and conditions set forth below.
- 5. Discharges from CSO Outfalls and tunnel overflow structures are prohibited except during wet weather events when one or more of the following conditions exist:
 - a. The associated tunnels serving individual CSO outfalls and tunnel overflow structures are filled to their design capacities.
 - b. Combined sewer flow is being transferred from individual CSO outfalls to the associated storage tunnel or diversion sewer at not less than minimum diversion rates listed below.
- 6. Solids and floatables capture shall be provided for all overflows prior to discharge to receiving waters.

7. All combined sewer flow stored in the Anacostia River, Northeast Boundary, Piney Branch and the Potomac River storage tunnels shall be emptied in such a manner as to maximize treatment of the stored flows through complete treatment at Blue Plains and to optimize conditions for maintaining the availability of storage volume in the tunnels system.

- 8. Storage tunnels shall have minimum design capacities as follows:
 - a. Anacostia River and Northeast Boundary Tunnels 157 million gallons
 - b. Piney Branch Tunnel 9.5 million gallons
 - c. Potomac River Tunnel 58 million gallons
- 9. Minimum diversion capacities from CSO outfalls to storage tunnels or interceptors and monitoring of diversions shall be as follows:

CSO Outfall	Drainage Area	Minimum Diversion Capacity For CSO Control (mgd)	Diversion to Tunnel or Diversion Sewer	Monitoring
005	Fort Stanton	22	Tunnel	(2)
006	Fort Stanton	to be separated	n/a	n/a

a. Anacostia CSO Control Systems

007	Fort Stanton	44	Tunnel	(3)
009	Canal Street	21	Tunnel	(2)
010and011	B St/NJ Ave	180	Tunnel	(3)
012	Tiber Creek	221	Tunnel	(3)
013	Canal Street Sewer	17	Tunnel	(2)
014	Navy Yard/M St.; 6 th St-7th St	61	Tunnel	(2)
015	Navy Yard/M St.; 9 th St	22	Tunnel	(2)
016 ⁽¹⁾	Navy Yard/M St.; 12 th St - 9 th St.	86	Tunnel	(2)
017 ⁽¹⁾	Navy Yard/M St.; 14 th St to Penn Ave	65	Tunnel	(2)
018	Barney Circle	57	Tunnel	(2)
019	Northeast Boundary	1,160	Tunnel	(3)

b. Potomac CSO Control Systems

CSO Outfall	Drainage Area	Minimum Diversion Capacity for CSO Control (mgd)	Diversion To Tunnel or Diversion Sewer	Monitoring
020	Easby Point	297	Tunnel	(3)
021	Slash Run	530 .	Tunnel	(3)
022	I St - 22 nd St. NW	333	Tunnel	(3)
024 (1)	West of Rock Creek Diversion Sewer	66	Tunnel	(2)

025 ⁽¹⁾	31 st & K St NW	3	Tunnel	(2)
026 (1)	Water St Dist (WRC)	0	Tunnel	(2)
027 ⁽¹⁾	Georgetown	92	Tunnel	(2)
028 (1)	37 th St. Georgetown	9	Tunnel	(2)
029	College Pond	133	Tunnel	(3)

c. Rock Creek CSO Control Systems

CSO Outfall	Drainage Area	Minimum Diversion Capacity for CSO Control (mgd)	Diversion to Tunnel or Diversion Sewer	Monitoring
031	Penn Ave	to be separated	n/a	n/a
032	26 th St - M St	6	Interceptor	(4)
033	N St - 25 th	5	Interceptor	(3)
034	Slash Run	6	Interceptor	(4)
035	NW Boundary	290	Interceptor	(4)
036	Mass Ave & 24 th St	29	Interceptor	(3)
037	Kalamora Circle West	to be separated	n/a	n/a
038	Kalamora Circle East	5	Interceptor	(4)
039	Belmont Rd	28	Interceptor	(4)
040	Biltmore Rd	12	interceptor	(4)
041	Ontario Rd	14	Interceptor	(4)
042	Quarry Rd	19	Interceptor	(4)
043	Irving St	35	Interceptor	(4)
044	Kenyon St	4	interceptor	(4)
045	Lamont St	8	Interceptor	(4)
046	Park Rd	9	Interceptor	(4)
047	Ingleside Terr	10	Interceptor	(3)
048	Oak St/Mt Pleasant	11	Interceptor	(4)

049	Piney Branch	468	Tunnel	(3)
050	M St - 27 th St	21	interceptor	(4)
051	Olive-29th St	4	Interceptor	(4)
052	O St - 31 st St	56	Interceptor	(4)
053	O St	to be separated	n/a	n/a
054	West Rock Cr Diversion Sewer	(5)	Interceptor	(4)
055	Abandoned	n/a	n/a	n/a
056	Normanstone Dr	(5)	Interceptor	(4)
057	Cleveland - 28 th St & Conn Ave	33	Interceptor	(3)
058	Conn Ave	to be separated	n/a	n/a
059	16 th and Rittenhouse Sts, NW	Separated	n/a	(4)

- (1) These outfalls have been consolidated. Diversion capacity listed is that required for CSO control.
- (2) Diversion capacity validated by construction performance test, no additional monitoring required.
- (3) Continuous flow measurement of diversion and outfall. Provision for temporary sampling on diversion and outfalls.
- (4) Diversion capacities from the referenced outfalls have been estimated based on computer modeling.

(5) These CSOs are emergency reliefs for the West Rock Creek Diversion sewer. There is no tributary drainage area, and flow diversion does not occur at these CSOs. The performance of these CSOs will be validated by computer modeling, no additional monitoring required.

- 10. With each DMR, report operations of the monitored CSO control facilities by systems as follows:
 - a. Volume into and out of storage tunnels;
 - b. Diversion rates into storage tunnels;
 - c. Discharge rates from outfalls;
 - d. Start and end time of wet weather event;
 - e. Time when storage tunnel became filled to minimum required capacity;

- f. All discharges from outfalls occurring prior to storage tunnel being filled to minimum required capacity and at less than minimum required diversion rates;
- g. Volume of overflows from outfalls;
- h. Results of any overflow or diversion sampling.

SECTION D. POST CONSTRUCTION MONITORING

The permittee shall implement a phased post-construction monitoring program to obtain information on rainfall, the volume and character of overflows and receiving waters characteristics. The monitoring phases shall be as follows:

Phase	Post-Construction Condition
1	Following the placement in operation of the inflatable
	dams and pumping stations rehabilitation.
2	Following the placement in operation of the Anacostia,
	Rock Creek and Potomac storage tunnels, respectively,
	As each tunnel is placed in operation.
3	Following the placement in operation of the complete
	CSO tunnels storage system

1. Phase I monitoring shall be in accordance with the following:

CSO Systems

Monitoring Type	Anacostia River	Potomac River	Frequency (3)
Rainfall Monitoring (1)	1 gauge in Northeast Boundary 1 gauge in Tiber Creek	1 gauge in Slash Run	Continuous
CSO Overflow (flow and volume) (1)	Northeast Boundary CSO 019 B ST/NJ Ave pumped overflow CSO 010	Potomac Pumping Station CSO 021 College Pond CSO 024	Continuous
CSO Overflow Sampling (2)	1 sampling station at Northeast Boundary	n/a	4 storms minimum approximately 1 hr sample interval for each storm.
Receiving Water Monitoring - Dissolved Oxygen (4)	Continuous DO Monitors	Continuous DO Monitors	approximately 30 minute intervals

Receiving Water	Bacteria Samples	Bacteria Samples	4 storms minimum
Monitoring -	П. (1)		
Bacteria, Field			
Parameters(2)(4)			

- (1) Temporary gauges, meters and samplers to be installed.
- (2) Samples shall be analyzed for fecal coliform, E.coli, CBOD5 and TSS.
- (3) Monitoring shall be conducted for a continuous period of 12 months.
- (4) The permittee is responsible for submitting all data, however, it is acceptable to use data developed by other sources.
- 2. Phase 2 monitoring shall be in accordance with the following:

Monitoring Type	Anacostia	Potomac	Rock Creek	Frequency
Rainfall Monitoring (1)	l gauge in Northeast Boundary	1 gauge in Slash Run	1 gauge in Piney Branch	Continuous
u kon se ne er	Tiber Creek	College Pond	6 s = = = = = = =	
CSO Overflow Monitoring and Diversion to Storage Monitoring (2)	Northeast Boundary CSO 019 Fort Stanton CSO 007 B ST/NJ Ave	Potomac Pumping Station CSO 021 College Pond CSO 029	Piney Branch CSO 049	Continuous
	Overflow CSO 010		5 (P)	
Tunnel Storage Level Monitoring (2)	1 sensor in Tunnel	1 sensor in tunnel	1 sensor in tunnel	Continuous
CSO Overflow Sampling (2) (3)	Sampling stations at Northeast Boundary CSO 019 and CSO 10	Sampling stations at CSO 020 and CSO 021	1 sampling station at CSO 049	4 storms minimum approx. 1 hour sample interval for each storm
Receiving Water Monitoring - Dissolved Oxygen (5)	Continuous DO monitors (5)	Continuous DO monitors (5)	n/a	approx. 30 minute intervals (5)

CSO Systems

Receiving	Use data from	Use data from	Use data from	once per
Water	existing	existing	existing	week for
Monitoring -	monitors and	monitors and	monitors and	bacteria and
Bacteria,	establish at	establish at	establish at	once per
Field	least 6 other	least 3 other	least 7 other	quarter for
Parameters (3)	locations	locations	locations	all other
				substances

- (1) Temporary gauges to be installed.
- (2) Shall use facilities and equipment installed as part of CSO control systems.
- (3) Sampling shall be analyzed for fecal coliform, E.coli, mercury, arsenic, cadmium, total chromium, copper, lead, nickel, selenium, silver, zinc, chromium VI, hardness, cyanide, pesticides, PCBs, volatiles and semivolatiles, DO, ammonia as N, TKN, total phosphorus, and ortho-phosphorus. Metals shall be analyzed as dissolved and total recoverable.
- (4) Monitoring shall be conducted for a continuous period of 12 months, in each CSO system after appropriate facilities are placed in operation.
- (5) Permittee is responsible for submitting all data, however, it is acceptable to submit data provided by other sources.

CSO Systems

		<u> </u>		
Monitoring Type	Anacostia River	Potomac River	Rock Creek	Frequency (4)
Rainfall Monitoring (1)	I gauge in Northwest Boundary I gauge in Tiber Creek	1 gauge in Slash Run 1 gauge in College Pond	l gauge in Piney Branch	Continuous
CSO Monitoring and Diversion to Storage Monitoring (2)	Northeast Boundary CSO 019 Fort Stanton CSO 007 B St/NJ Ave Pumped Overflow CSO 010	Potomac Pumping Station CSO 021 College Pond CSO 029	Piney Branch CSO 049	Continuous
Tunnel Storage Level Monitoring (2)	L sensor in Tunnel	l sensor in Tunnel	l sensor in tunnel	Continuous
CSO Overflow Sampling (2) (3)	Sampling stations at CSO 019 and CSO 010	Sampling stations at CSO 021 and 020	1 sampling station at CSO 049	4 storms maximum approx. 1 hour sample interval for each storm
Receiving water Monitoring - Dissolved Oxygen (5)	continuous DO monitors	continuous DO monitors	n/a	approx 30 minute intervals

3. Phase 3 monitoring shall be in accordance with the following:

Receiving water monitoring- bacteria, field parameters (3) (5)	establish at least 6 locations	Establish at least 6 locations	7 other locations	once per week for bacteria and once per quarter for all other
			a 1 - 2	parameters

- (1) Temporary gauges will be installed.
- (2) Shall use facilities and equipment installed as part of CSO control systems.
- (3) Sampling shall be analyzed for fecal coliform, E.coli, CBOD5, TSS, the 126 priority pollutants, mercury, arsenic, cadmium, total chromium, copper, lead, nickel, selenium, silver, zinc, chromium VI, hardness, cyanide, pesticides, PCBs, volatiles, semi-volatiles, DO, ammonia as N, TKN, total phosphorus and ortho-phosphorus. Metals shall be analyzed as dissolved and total recoverable.
- (4) Monitoring shall be conducted for a continuous period of 12 months.
- (5) The permittee is responsible for submitting all monitoring data.

4. Results from the monitoring phases shall be used to assess the performance of CSO controls against predictions established as part of LTCP development and its supplements. Performance assessments shall be prepared by the permittee and submitted to EPA within 180 days of completion of a monitoring phase. In general, the assessments shall include:

- a. Comparison of monitored overflow magnitude and duration with the LTCP predictions;
- b. Comparison of monitored water quality in receiving waters with LTCP predictions;
- c. Comparison of monitored CSO reductions with LTCP reductions;
- d. Comparison of performance to TMDLs and allocations established for CSOs and approved bypasses in the receiving waters; and
- e. Overall evaluation as to whether or not CSO controls are providing degree of control predicted for LTCP conditions and whether or not modifications or additions to the LTCP are required.

SECTION E. CSO STATUS REPORTS AND SCHEDULES

- 1. Progress reports are to be provided to EPA for all activities scheduled or completed in accordance with the terms of this permit. Such reports shall be submitted in quarterly and annual reports which summarize actions and activities undertaken to comply with Part III, Section B.1. and Part III, Section C of this permit (Nine Minimum Controls Program and the LTCP). Reports shall be submitted to EPA and DDOE as follows:
 - a. Submit quarterly reports on the 28th day of April, the 28th day of July, the 28th day of October and the 28th day of January. Reports shall summarize information through the last day of the month prior to the month in which the report is due. The first quarterly report shall be submitted for the first full quarter following the effective date of the permit.

- Submit annual reports by March 31 of each year summarizing information for the previous calendar year. The first annual report shall be submitted for the first full year following the effective date of the permit.
- 2. Information submitted in reports shall, in general, be prepared in a tabular format giving dates, times and locations as applicable. The information to be reported of the Nine Minimum Controls Program shall include the following:

b.

- a. CSS Control Structures Number of inspections conducted, conditions observed (e.g., function normal, blockages, malfunctions, repairs needed) and maintenance and repairs performed. For blockages observed provide: the location of blockage, date and time that the blockage was discovered, date and time blockage was corrected, and whether or not a discharge from the outfall to the receiving water was observed. If a discharge was observed, provide an estimate of discharge volume.
- b. Pumping Stations Number of inspections conducted, numbers of screens and pumps installed and numbers available for service; and preventative maintenance performed. For pumps found not to be available for service, permittee shall report the cause of unavailability, schedule for and status of repairs. For the Main and O Street pumping stations, report the results of visual wet weather surveys and record of overflow screenings.
- c. Northeast Boundary Swirl Facility Number of inspections conducted, number of screens and swirls installed and numbers available for service; and preventative maintenance performed. Report record of flow treated and screenings removed.
- d. Inflatable Dams and SCADA System Number of inspections conducted. Number of dams installed and number of dams operational. Occurrence of an overflow and approximate duration of overflow based on dams inflation status.
- e. Major Combined Sewers Upon development of inspection program. Inspections planned, inspections conducted, results of inspections and description and schedule for maintenance and repairs planned and performed.
- f. Wet Weather Overflows Report the modeled results of the number, volume and average duration of overflows for each active CSO outfall due to wet weather events.
- g. Dry Weather Overflows Are prohibited, however, in the event that they do occur, report their location, cause, date and time discovered, action taken, date and time discharge confirmed ceased and actions taken to prevent reoccurrence of the condition causing the overflow. Include an estimate of the overflow volume.

Catch Basin Cleaning - Number and location of catch basins required to be cleaned plus the number and location of catch basins actually cleaned.

Anacostia River Floatable Debris Removal Program - Number of boats available for service, number of cleaning trips, record of amount and nature of material removed.

- j. BMP Demonstration for Solid and Floatable Control Number of inspections conducted and conditions observed, and records of material removed at CSO outfalls 018, 040 and 041.
- k. Other Summarize actions and activities under programs for Pollution Prevention, Public Notification and Pretreatment.
- 1. Wet Weather Flows to Blue Plains WWTP Upon development of a reporting system, report operations for each wet weather event.
- m. CSS Litter Control Number of meetings or conferences with DPW and NPS. Summary of topics discussed and actions adopted.
- 3. Report on the following quarterly:

h.

i.

- a. Northeast Boundary Swirl Facility
- b. Inflatable Dams and SCADA System
- c. Dry Weather Overflows
- d. CSS Control Structures
- e. Pumping Stations
- f. Wet Weather Flows to Blue Plains
- g. Wet Weather Overflows
- h. CSS Litter Control
- 4. Report on the following annually:
 - a. CSS Inventory
 - b. Major Combined Sewers
 - c. Catch Basin Cleaning
 - d. BMP Demonstration for Solid and Floatable Control
 - e. Anacostia River Floatable Debris Removal Program
 - f. Other

PART IV. SPECIAL CONDITIONS

SECTION A. PRETREATMENT

Pretreatment Conditions for Program Implementation

1. <u>General Requirements</u> - The permittee shall operate and implement an industrial pretreatment program in accordance with the federal Clean Water Act and the federal General Pretreatment Regulations at 40 C.F.R. Part 403. The program shall also be implemented in accordance with the permittee's pretreatment program and any modifications thereto submitted by the permittee and approved by the EPA.

2. <u>Annual Report</u> - In accordance with 40 C.F.R. § 403.12(i), the permittee shall submit an Annual Report by March 31 of each year to EPA that describes the permittee's pretreatment activities for the previous calendar year. The Annual Report shall include a description of pretreatment activities in all municipalities from which wastewater is received at the permittee's POTW. At a minimum, the Annual Report shall include the following:

Industrial Listing - The Annual Report shall contain an updated industrial listing a. showing the name and address of all current Significant Industrial Users (SIUs) and Non-Significant Categorical Industrial Users (NSCIUs) as defined by 40 C.F.R. § 403.3 and the categorical standard, if any, applicable to each. The listing must: (1) identify any users that are subject to reduced reporting requirements under 40 C.F.R. § 403.12(e)(3); (2) identify which users are NSCIUs; (3) identify any users that have been granted a monitoring waiver in accordance with 40 C.F.R. § 403.12(e)(2) as well as the pollutants for which the waiver was granted and the date of the last POTW sampling event for each of those pollutants; and (4) identify any categorical industrial users that have been given mass-based limits in place of concentration-based categorical limits in accordance with 40 C.F.R. § 403.6(c)(5) or concentration-based limits in place of mass-based categorical limits in accordance with 40 C.F.R. § 403.6(c)(6). In addition, the report shall contain a summary of any trucked or hauled wastewater accepted into the POTW including the source of the wastewater (domestic, commercial, or industrial) and the discharge point(s) designated by the POTW for acceptance of such wastewater. For each industrial source, the report shall indicate the name and address of the industrial source, the average amount of wastewater received per discharge day, a brief description of the type of process operations conducted at the industrial facility, whether the source facility is a categorical industrial user (including NSCIUs), significant industrial user, or nonsignificant industrial user, and any controls imposed on the user;

b. Control Mechanism Issuance - The Annual Report shall contain a summary of SIU control mechanism issuance, including a list of issuance and expiration dates for each SIU. For each general control mechanism issued, provide the names of all SIUs covered by the general control mechanism and an explanation of how the users meet the criteria under 40 C.F.R. § 403.8(f)(1)(iii)(A) for issuance of a general control mechanism.

c. Sampling and Inspection - The Annual Report shall contain a summary of the number and type of inspections and samplings of SIUs by the permittee, including a list of all SIUs either not sampled or not inspected, and the reason that the sampling and/or inspection was not conducted. For any user subject to reduced reporting under 40 C.F.R. § 403.12(e)(3), the list shall include the date of the last POTW sampling and the date of the last POTW inspection of the user. In addition, the report shall include a summary of the number of self-monitoring events conducted by each SIU and the number required to be conducted, including a list of all SIUs that did not submit the required number of reports and the reason why the reports were not submitted. For NSCIUs, the report shall provide the date of the compliance certification required under 40 C.F.R. § 403.12(q);

d. Industrial User (IU) Compliance and POTW Enforcement - The Annual Report shall contain a summary of the number and type of violations of pretreatment standards and requirements, including local limits, and the actions taken by the permittee to obtain compliance, including compliance schedules, penalty assessments, and actions for injunctive relief. The report shall state whether each SIU was in significant noncompliance, as that term is defined in 40 C.F.R. § 403.8(f)(2)(viii), including the parameter(s) in violation, the period of violation, the actions taken by the POTW in response to the violations, and the compliance status at the end of the reporting period. A copy of the publication of users meeting the significant noncompliance criteria shall be included. In addition, the report shall provide a list of users previously designated as NSCIUs that have violated (to any extent) any pretreatment standard or requirement during the year and the date and description of the violation(s);

e. Summary of POTW Operations - The Annual Report shall contain a summary of any interference, pass-through, or permit violations by the POTW and indicate the following: (1) which (if any) NPDES violations may be attributed to industrial users; (2) which IU(s) are responsible for such violations; and (3) actions taken to address these events. The report shall also include all sampling and analysis of POTW treatment plant influent, effluent, and sludge for local limits and priority pollutants identified pursuant to section 303(d)of the Clean Water Act, 33 U.S.C. § 1313(d), and conducted during the year;

f. Pretreatment Program Changes - The Annual Report shall contain a summary of any changes made or proposed to the approved program during the period covered by the report and the date of submission to EPA;

g. Signatory Requirements - The Annual Report shall be signed by a principal executive officer, ranking elected official or other duly authorized employee in accordance with 40 C.F.R. § 403.12(m). Any such authorization must be made in writing and identify an individual or position having responsibility for the overall operation of the POTW or pretreatment program.

3. <u>Pretreatment Monitoring</u> - The permittee shall conduct monitoring at its treatment plant that, at a minimum, includes quarterly influent, effluent, and sludge analysis for all pollutants for which local limits have been established, and an annual priority pollutant scan for influent and sludge.

4. <u>Notification of Pass-Through or Interference</u> - The permittee shall notify EPA, in writing, of any instance of pass-through or interference, as defined at 40 C.F.R. § 403.3(p) and (k), respectively, known or suspected to be related to an industrial discharge from an IU into the POTW. The notification shall be attached to the Discharge Monitoring Report submitted to EPA and shall describe the incident, including the date, time, length, cause (including the responsible user if known), and the steps taken by the permittee and the IU (if identified) to address the incident. A copy of the notification shall also be sent to the EPA Pretreatment Coordinator at the address provided below.

5. <u>Headworks Analysis</u> - The permittee shall submit to EPA a reevaluation of its local limits based on a headworks analysis of its treatment plant within 1 (one) year of permit issuance. In order to ensure that the permittee's discharge complies with water quality

standards, the reevaluation of the local limits shall be conducted using, among other things, any water quality standards applicable to the pollutants included in the reevaluation unless the permit includes a limit for that pollutant. The list of pollutants to be evaluated, as well as a sampling plan for collection of necessary data, shall be submitted to EPA within 3 (three) months of permit issuance. Within 4 (four) months of acceptance of the headworks analysis by the Approval Authority, the permittee shall adopt the revised local limits and notify all contributing municipalities of the need to adopt the revised local limits.

<u>Changes to Pretreatment Program</u> - EPA or the permittee may initiate program modification at any time to reflect changing conditions at the POTW, which may include (but are not limited to) the following reasons:

- a. The program is not implemented in accordance with 40 C.F.R. Part 403;
- b. Problems such as interference, pass-through, or sludge contamination develop or continue;
- c. Federal, State, or local requirements change;

6.

d. Changes are needed to assure protection of waters of the United States. Program modification is necessary whenever there is a significant change in the operation of the Pretreatment Program that differs from the information in the permittee's submission, as approved under 40 C.F.R. § 403.11.

- 7. <u>Procedure for Pretreatment Program Changes</u> Upon submittal by the permittee, and written notice of approval by EPA to the permittee of any changes to the permittee's approved pretreatment program, such changes are effective and binding upon the permittee unless the permittee objects within 30 days of receipt of the written notice of approval. Any such objection must be submitted in writing to EPA at the address shown below.
- 8. <u>Correspondence</u> Pretreatment correspondence shall be submitted to EPA at the following address:

Pretreatment Coordinator (3WP41) U.S. Environmental Protection Agency 1650 Arch Street Philadelphia, PA 19103-2029

SECTION B. STANDARD SLUDGE CONDITIONS

1. The permittee shall comply with all existing federal and state laws and regulations that apply to sewage sludge use and disposal practices, including 40 C.F.R. 503 and 40 C.F.R. 258 which are hereby incorporated as part of the permit by reference, and the Clean Water Act (CWA) Part 405(d) technical standards.

If an applicable management or practice or numerical limitation for pollutants in sewage sludge more stringent than existing federal and state regulations is promulgated under Part 405(d) of the CWA, this permit shall be modified to conform to the promulgated regulations.

- 2. The permittee shall give notice to the Director of any change(s) planned or in the permittee's sludge use or disposal practice.
- 3. A change in the permittee's sludge use or disposal practice is a cause for modification of the permit. It is a cause for revocation and reissuance of the permit if the permittee requests or agrees.
- 4. The permittee shall submit an annual sludge report containing the information required in 40 C.F.R. 503 by February 19 each year. The report shall cover the previous calendar year. The sludge report shall be submitted to"

U.S. EPA, Region III Water Protection Division Office of NPDES Permitting and Enforcement (3WP42) 1650 Arch Street Philadelphia, PA 19103 - 2029

SECTION C. CHLORINATION/DECHLORINATION

2.

- 1. The permittee shall report chlorine dosage (on a pound basis) per discharge event on Outfall 001. Dosage figures shall be submitted with the DMR for the month of the discharge event.
 - The concentration of Total Residual Chlorine (TRC) in the final effluent after dechlorination shall not exceed not-detectable. The permittee is required to achieve non-detectable for TRC as measured by 0.10 mg/l.

When the TRC concentration in the final effluent results in a detectable measurement (above 0.10 m/l) the permittee shall take immediate steps to achieve a non-detectable concentration.

The permittee shall resample TRC within one hour after the original grab sample measurement. If this grab sample shows a non-detectable amount as measured by 0.10 mg/l or less, then the original sample shall be considered in compliance. If this grab sample shows a detectable amount, above 0.10 mg/l, then the permittee shall retest in the second hour after the original non-compliance. If this grab sample in the second hour after the original non-compliance shows a not detectable amount as measured by 0.10 mg/l or less, then the sample shall be considered in compliance, but if the grab sample is above 0.10 mg/l then it will be considered a violation and recorded on the DMR. Each subsequent hourly sample above 0.10 mg/l shall be enumerated on the DMR until the effluent returns to compliance.

Whenever there is an initial detectable TRC concentration, all subsequent sampling results shall be tabulated and reported with the DMRs and the time required to achieve the TRC of 0.10 mg/l. The analytical method used and the detection limit for each sample should be included on the data tabulation.

For purposes of reporting on the DMR form, a non-detectable result shall be reported as zero. For a violation(s) of the limit, the maximum chlorine residual for the month and the total number of excursions in that month should be recorded in the appropriate column on the DMR form. The permittee shall operate the dechlorination facilities in a manner which will ensure continuous compliance with the TRC non-detectable limit.

All analytical testing for TRC shall be in accordance with 40 C.F.R. Part 136, Amperometric Titration or DPD Ferrous Titrimetric Method.

SECTION D. TOTAL NITROGEN COMPLIANCE SCHEDULE

- 1. The total nitrogen (TN) effluent limit from the Blue Plains plant, for Outfall 002 shall be 4,377,580 pounds per year. Improvements to the existing nitrogen removal facilities to achieve this limit shall occur no later than the dates in the following schedule:
 - a. Award contract for Construction December 31, 2011;
 - b. Place in operation July 14, 2014
 - c. Begin compliance with TN effluent limit January 1, 2015.
- 2. Progress Reports: Beginning six months from the effective date of this permit and every six months until January 1, 2015, the permittee shall submit reports detailing progress towards completion of each of the above requirements. In addition, no later than 14 days following each of the dates set forth above, the permittee shall notify EPA in writing of its compliance or non-compliance with these requirements.

SECTION E. STORM WATER MANAGEMENT

- 1. Storm Water Pollution Prevention Plan
 - a. General

A Storm Water Pollution Prevention Plan (SWPP) was developed for this facility in accordance with the factors outlined in 40 C.F.R.125.3 (d)(2)or (3), as appropriate. The plan identifies potential sources of pollution which may reasonably be expected to affect the quality of stormwater discharge associated with sludge handling operations or other portions of the waste water treatment plant as appropriate.

b. Plan Review

The plan shall be retained on site at the facility. The permittee shall make plans available upon request to the EPA. The EPA may notify the permittee at the time that the plan does not meet one or more of the requirements of this Part. Such notification shall identify those provisions of the permit that are not being met by the plan, and identify which provisions of the plan require modification in order to meet the minimum requirements of this Part. Within 30 days of such notification, the permittee shall make the required changes to the plan and shall submit to EPA a written certification that the requested changes have been made.

c. Plan Modification

The permittee shall amend the plan whenever;

- i. There is a change in design, construction, operation or maintenance which has a significant effect on the potential for the discharge of pollutants to the waters of the United States; or
- ii. EPA notifies the permittee of its finding that the SWPPP is inadequate in eliminating or minimizing pollutants from identified sources, or that the SWPPP is inadequate to prevent the facility from causing, or having a reasonable potential to cause or contribute to a violation of the D.C. Water Quality Standards.

SECTION F. PCB MONITORING AND REDUCTION

1. The permittee shall monitor quarterly for PCBs at Outfalls 001 and 002 during the term of this permit using composite or grab samples as specified for these outfalls at Part I of this permit. The samples for Outfall 002 shall represent 2 dry weather and 2 wet weather samples quarterly during the term of this permit. Samples from Outfall 001 shall represent 2 wet weather samples quarterly during the term of this permit. During the first year of the permit, the permittee shall also monitor plant influent during one of the corresponding wet weather and one of the corresponding dry weather sampling events.

For the purpose of obtaining samples, dry weather means no measurable rain at Ronald Reagan National Airport in the prior 72 hours and wet weather means a condition when the average daily plant influent flow is greater than 511 mgd.

Samples shall be analyzed using Method 1668B. After the permittee has collected four quarterly samples from Outfall 002 and 001, the permittee may request a waiver from EPA for the remaining samples. Documentation shall be submitted with the waiver request to demonstrate why other sampling is not necessary. If the results of the monitoring indicate actual or potential exceedance of the Waste Load Allocation, and upon notification by EPA, the permittee shall within 120 days submit to EPA for comment a work plan and schedule for

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preparation and implementation of a Pollution Minimization Plan (PMP) and other submittals or analyses of PCB data. Such submittals may include an assessment of PCBs in the initial source intake water to determine the net contributions of PCBs introduced to the treatment works and an analysis of the net reductions provided by treatment.

- 2. The PMP developed from the work plan shall include, but not necessarily be limited to:
 - a. The name and contact information for an individual who will serve as the permittee's contact for information concerning the PMP.
 - b. A narrative discussion together with necessary supporting data, charts, maps, diagrams and similar material of the permittee's CSO service area (CSO Area) including the location of all outfalls.
 - c. A time schedule with milestone dates.
 - d. Description of all known materials, equipment, processes, soil areas or facilities within the CSO area from which PCBs are known or suspected to be released, directly or indirectly into a CSO, including a description of the entry pathway if that is known. Pollutant concentrations, if known shall be reported.
 - e. Description of all known materials, processes, soil area or facilities within the CSO Area that are known to contain PCBs, but are not known to be releasing PCBs within the District's CSO Area.
 - During the term of this permit, the permittee shall collect and analyze at least twelve (12) in-stream samples for PCBs. Samples shall be taken simultaneously upstream and downstream of CSO outfalls and the PMP shall include planned locations for the monitoring.
 - g. The permittee shall develop a report of all known PCB sources within the CSO system that the permittee believes or has reason to believe may require some control measure to reduce its discharge of PCBs. The permittee shall work with the Interstate Commission on the Potomac River Basin (ICPRB), and other appropriate agencies, to develop a plan of action to control the discharge of PCBs from these sources.
 - h.

f.

The permittee shall develop and implement a program to identify whether industrial users have the potential to contribute to PCBs. Because PCBs may be contributed from many industrial processes, principally through oils which are contaminated by PCBs and may be rinsed and discharged into the sewer system, the permittee shall include PCBs as a sampling requirement for facilities with known or suspected sources of
PCBs. In addition, the permittee shall conduct period reviews of its industrial database, including analytical scans of suspected sources to determine whether PCBs are being discharged in detectable concentrations.

i. The permittee shall demonstrate its compliance with the PMP by reporting the number of known sites, the number of sites referred for action and the results of the in-stream sampling activity and any other actions taken to further the goals of the PMP. The permittee shall report on PMP implementation annually by February 15 and the report shall cover the preceding calendar year.

SECTION G. WHOLE EFFLUENT TOXICITY (WET) TESTING

1. In accordance with 40 C.F.R.§ 122.21(j)(5), the permittee must conduct and provide the results of WET tests for chronic toxicity for Outfall 002 and acute toxicity for Outfall 001.

2. <u>Testing Frequency</u>

- a. For the duration of this permit, these results must include quarterly testing on 24hour composite effluent samples for Outfall 002, and grab samples for Outfall 001 beginning within three months of the effective date of the permit. The permittee shall conduct the toxicity tests, using a minimum of two species, using the fish fathead minnow - *Pimephales promelas* and the invertebrate species *Ceriodaphnia dubia*. Upon the completion of the last of four quarterly tests, the permittee may petition EPA for a reduction in the frequency of this testing.
- b. In addition, pursuant to 40 C.F.R. 122.21(5)(iv)(A), the permittee shall submit the results of four quarterly tests for Outfalls 001 and 002 for a year immediately preceding the next permit application with its application for permit reissuance.

3. Monitoring

a.

Outfall 001. Species and toxicity test methods for estimating the acute toxicity of NPDES effluents are found in the fifth edition of Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms (EPA/821/R-02/012, 2002; Table 1A, 40 C.F.R. Part 136). The permittee shall conduct definitive 96-hour static renewal toxicity tests using a vertebrate species, the fathead minnow - Pimephales promelas, and definitive 96-hour static renewal toxicity tests using the invertebrate species, Ceriodaphnia dubia for Outfall 001. Each test will include a control and the permitted IWC of 45% concentrations in order to quantify any measurable acute toxicity. These renewal tests will need to have sufficient volume collected by grab during the storm event to use for the start of the test, the additional test renewals and TIE, if necessary.

During the first year of the WET studies the permittee shall use the multiple species required above. For the following years the permittee may perform the study using the most sensitive species only.

b. For Outfall 002. Species and toxicity test methods for estimating the chronic toxicity of NPDES effluents are found in the fourth edition of Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms (EPA/821/R-02/013, 2002; Table 1A, 40 C.F.R. Part 136)(Chronic Test Methods Manual). The permittee shall conduct static renewal toxicity tests with a vertebrate species, the fathead minnow - Pimephales promelas, and an invertebrate species - Ceriodaphnia dubia for Outfall 002.

4. WET Requirements

For Outfall 001, the acute WET requirement for this discharge is "Pass" for any a. one test result. For this permit, the determination of Pass or Fail from a singleeffluent-concentration (paired) acute toxicity test is determined using a one-tailed hypothesis test called a "t-test". As discussed in paragraph 7. below, a mixing zone is authorized at Outfall 001. The resulting in-stream waste concentration (IWC) for Outfall 001 is 45%. The objective of a Pass or Fail test is to determine if survival in the single treatment (45% effluent) is significantly different from survival in the control (0% effluent). Following Section 11.3 in the Acute Test Methods Manual (EPA/821/R-02, 2002), the t statistic for the single-effluentconcentration acute toxicity test shall be calculated and compared with the critical t set at the 5% level of significance. If the calculated t does not exceed the critical t, then the mean responses for the single treatment and control are declared "not statistically different" and the permittee shall report "pass" on the DMR form. If the calculated t does exceed the critical t, then the mean responses for a single treatment and control are declared "statistically different" and the permittee shall report "fail" on the DMR form. This permit requires a TIE to be conducted on the original sample if the acute WET test is reported as "fail".

b. There are no chronic toxicity effluent limits for Outfall 002. Quarterly monitoring of chronic toxicity shall be conducted. If four consecutive chronic tests demonstrate an IC25 greater than the IWC of 52%, calculated for outfall 002, the permittee may request that EPA re-evaluate the effects of Outfall 002's effluent upon the aquatic community and reduce or remove the WET testing frequency for the remainder of the permit cycle. If any of the quarterly chronic tests result in an IC25 less than the IWC of 52%, the permittee shall follow the requirements in paragraph G.8.b. below.

To properly conduct chronic WET tests, the laboratory must prepare a series of effluent dilutions which are specific to the permittee's discharge. The permittee must inform the laboratory of the proper dilution series. The dilution series must include at least one dilution below the IWC. Based upon the calculated IWC, the recommended series for the chronic tests is 100, 72, 52, 38 and 27 percent effluent.

5. <u>Reporting Results</u>

All information reported must be based on data collected through analysis conducted using 40 C.F.R. Section 136 Table 1A methods. In addition, all data must comply with QA/QC requirements of 40 C.F.R. Part 136 and other appropriate QA/QC requirements for standard methods not addressed by 40 C.F.R. Part 136.

The permittee shall notify the permitting authority and DC DOE in writing within 14 days of an exceedance of a chronic or acute WET permit trigger. This notification shall describe actions the permittee has taken or will take to investigate, identify, and correct the causes of toxicity; the status of actions required by this permit; and schedule for actions not yet completed; or reason(s)that no action has been taken.

Results for toxicity testing shall be submitted with the DMRs for the month in which the toxicity was conducted.

Additional Reporting Requirements

The permittee shall provide the results of all WET tests conducted during the four and one-half years prior to application for a new permit.

7. Mixing Zones

Pursuant to the District of Columbia Water Quality Standards (WQS) (21 DCMR 1105.7), a mixing zone may be allowed for point source discharges of pollutants on a case-bycase basis where it is demonstrated that allowing a small area impact will not adversely affect the waterbody as a whole. Specific conditions apply. In accordance with the DC WQS, EPA is allowing the use of mixing zones for chronic WET testing, as long as the conditions of 21 DCMR 1105.7 are met. WASA may make a request in writing for a mixing zone for one or both outfalls. The request should demonstrate how the discharge meets the conditions of 21 DCMR 1105.5.

8. <u>Accelerated Toxicity Testing and Toxicity Reduction Evaluation (TRE) Toxicity</u> <u>Identification Evaluation (TIE)Process</u>

a. For <u>Outfall 001</u>. The acute permit trigger is defined as the IWC. If an acute permit trigger is exceeded, then the permittee shall begin TIE testing using the excess of the original sample collected. This test shall begin immediately upon receipt of test results exceeding the acute WET trigger. If an acute trigger is exceeded, the permittee shall conduct two additional toxicity tests using the same species and test method as soon as additional Outfall 001 CSO releases occur. If the additional toxicity tests do not exceed the specified acute WET permit trigger, then the permittee may return to their regular testing frequency.

If a toxicant(s) is identified in the TIE process, the permittee shall develop a detailed TRE Workplan which shall include, at a minimum, the additional actions the permittee shall take to investigate, identify and correct the problem.

For Outfall 002. The chronic permit trigger is defined as the IWC for outfall 002. If the chronic permit trigger is exceeded, then the permittee shall conduct two additional toxicity tests using the same species and test method. The tests shall begin within 14 days of receipt of test results exceeding the chronic WET trigger. If one of the additional toxicity tests exceeds a chronic WET permit trigger, then, within 30 days of the receipt of this confirmation test result, the permittee shall initiate a TRE using the U.S.EPA Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants (EPA/833/B-99/002) (1999). The TRE Workplan shall include, at a minimum, additional actions to be taken by the permittee to investigate, identify, and correct the causes of toxicity; actions the permittee will take to mitigate the impact of the discharge and prevent the recurrence of the toxicity; and a schedule to implement required remedial actions.

b.

- c. During the pendency of the TRE/TIE process, the permittee shall continue quarterly acute and/or chronic WET testing.
- d. In the event that a toxicant is identified and a remedy can be quickly implemented (e.g., lowering concentrations of chlorine or ammonia), such remedy should be implemented as quickly as possible and prior to the development and submission of a TRE Workplan.

Section 2 Operation and Maintenance

2.1 NPDES PERMIT REQUIREMENTS

The NPDES permit includes requirements for the NMC program related to operation and maintenance. The permit requires DC Water to:

- Maintain a CSS inventory prepare an inspection plan and submit updated inventory information with each annual report as follows:
 - List of CSO outfalls and emergency relief locations
 - Combined Sewer Overflow Structures designation, location, description of operation, capacity and diagram or drawing of each structure. Include similar information for each inflatable dam.
 - Outfall Structures. Include designation, location and description of each structure. Include a diagram or drawing and a picture as available and practicable. Describe outfalls characteristic at high and low tide (e.g., submerged, partially submerged, not submerged). Identify whether or not each structure is equipped with a tide gate.
 - Supervisory Control and Data Acquisition (SCADA) System. Include a functional description, and list of information provided by the SCADA system for the CSS.
 - Rain Gages. List location and description of rain gauges installed within the CSS.
- Inspect CSS control structures (regulator structures and tide gates) at least once per month.
- Inspect pumping stations at least once per month.
- Inspect Northeast Boundary Swirl Facility at least once per month.
- Inspect inflatable dams and CSS SCADA system at least once per month.
- Develop an inspection program for the major combined sewers where each major combined sewer is inspected on a rotating schedule of sufficient frequency to maintain capacity requirements.
- Inspect outfall structures annually.
- Following rehabilitation, operate and maintain the Main, "O" Street, Potomac and Poplar Point and East Side Pumping stations to provide firm pumping capacities of 240 mgd, 45 mgd, 460 mgd 45 mgd and 45 mgd respectively.

2.2 CSS SYSTEM INVENTORY

2.2.1 Pipes, Manholes and Catch Basins

A schematic of the major conveyance pipelines and pumping stations in the DC Water's sewer system is presented on Figure 2-1. It is convenient to think of the drainage areas and CSS as being divided into two subsystems - an Anacostia system and a Potomac/Rock Creek system. The Northeast Boundary, Navy Yard, Fort Stanton, and Tiber Creek drainage areas are part of the Anacostia system. The other drainage areas are part of the Potomac/Rock Creek system, with the B St/New Jersey Avenue drainage area serving as a link between the Anacostia and Potomac/Rock Creek systems is significantly different. Prior studies indicate this factor is approximately two for the Northeast Boundary Trunk Sewer. However, this factor is typically significantly higher for trunk sewers and interceptors serving the Potomac/Rock Creek system, allowing them to carry more wet weather flow before discharging to receiving waters.

DC Water has approximately 550 paper 24" x 36" maps showing the sewer system in the District. These maps have been digitized into a GIS system. Based on this digitization, the following is an inventory of the combined sewer system:

CSS Inventory					
Item	Units	Estimated Quantity			
Combined Sewers					
< 18"	Miles	375			
\geq 18" to < 24"	Miles	79			
≥ 24 " to < 42"	Miles	80			
\geq 42" to < 72"	Miles	39			
\geq 72" to < 108"	Miles	40			
≥ 108"	Miles	39			
Total	Miles	652			
Manholes	Each	18,240			
Catch basins	Each	10,871			

Table 2-1 CSS Inventory

On the counter maps, approximately 10 percent of the pipe length had no information on pipe size. For purposes of the inventory, these pipes were assumed to have diameters in the same proportion as the pipes with known diameters.



LAST SAVED BY: RAMAKRISHNA JEEDIGUNTA DATE: 2/16/2015 12:22:51 PM DRAWING ID: E:\PROJECTS\2014 NMC REPORT\FIGURES\2 -1 POT-ROCK CSO-CSS.DWG

2.2.2 Outfalls and Regulator Structures

Outfalls

There are 63 outfalls listed in DC Water's NPDES permit. They are summarized as follows:

- 2 outfalls (NPDES 001 and 002) are wastewater treatment plant outfalls
- 4 outfalls (NPDES 004, 008, 061, 062) are emergency relief locations
- 57 outfalls are CSOs. Three of these outfalls have been abandoned and seven have been separated, leaving a total of 47 active CSO outfalls as follows:
 - 14 CSOs discharge to the Anacostia River
 - 10 CSOs discharge to the Potomac River
 - 23 CSOs discharge to Rock Creek or its tributaries

In accordance with the LTCP Consent Decree, DC Water has separated CSO 006 to the Anacostia River, and CSOs 031, 037, 053 057, 058 and 059 to Rock Creek. The outfall list will be updated when the permit is reissued.

Regulator Structures

Regulator structures control the amount of flow diverted to interceptors, which convey wastewater to BPAWWTP. During dry weather, flows are diverted to BPAWWTP for treatment. During wet weather events, the regulators divert combined sewage, the mixture of sanitary wastewater and storm water, within the system up to design capacities. When flows exceed the capacities of the system, the regulator structures divert excess flow to CSO outfalls, which discharge to the receiving waters. Release of the combined sewer overflow to the outfalls is necessary to prevent flooding in homes, businesses, and streets. The frequency and volume of discharge from each of these structures varies depending on the relative capacity of the downstream interceptor, the hydraulic geometry of the overflow structure itself, storm intensities and duration, and the size of the contributing drainage area.

DC Water maintains an updated inventory on the location, configuration and status of its outfalls and regulator structures in its "Structures Book", which is included as Appendix 2-1.

The capacities of the diversion structures vary depending on water levels in the combined sewer and the downstream interceptor. As a result, the capacities of the diversion structures were determined by reviewing model results developed for the LTCP. These are summarized in Appendix 2-2.

2.2.3 Inflatable Dams

DC Water operates and maintains twelve inflatable dams at eight different locations. The structure number, location and number of dams per site are presented in Table 2-2. The inflatable dams

consist of multi-ply elastomeric (i.e., "rubber") fabric dams installed in major overflow conduits within the combined sewer system. The installation consists of the dam, attachment hardware, mechanical inflation equipment housed in a nearby vault, air piping and valves, an over-pressure blowoff tank and an automatic control system. The objective of the inflatable dam installation is to increase the effective depth to which the sewage must rise in the 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 based on a signal from an upstream level sensor. During dry weather conditions the dams are normally maintained fully inflated under low pressure.

Structure			Number of
Number	Location	Combined Sewer	Dams
14	Main Pumping Station – West Side	B St. – New Jersey Ave. Trunk Sewer	2
15	South Capitol and E Sts., SE	B St. – New Jersey Ave. Trunk Sewer	1
15a	Half and L Sts., SE	B St. – New Jersey Ave. Trunk Sewer	1
16	Main Pumping Station – East Side	Tiber Creek Trunk Sewer	2
24	RFK Memorial Stadium – South Parking Lot	Northeast Boundary Sewer	3
34	23rd and Constitution, NW	Easby Point Trunk Sewer	1
35	Kennedy Center - East Parking Lot	East Rock Creek Diversion Sewer	1
52	22nd St., between M and N Sts., NW	Slash Run Trunk Sewer	1
		Total Number of Inflatable Dams	12

Table 2-2Inflatable Dam Locations

Inflatable dam locations and details are shown on DC Water's "Structures Book", which is included as Appendix 2-1.

2.2.4 Northeast Boundary Swirl Facility

The NEBSF is located at the south end of the RFK Stadium parking lot, on the west bank of the Anacostia River, and adjacent to the East Side Pumping Station. This facility went into operation in January 1991. When the system is operating optimally, this facility provides treatment and disinfection for up to 400 mgd of combined sewer overflow, during storm events, before discharging to the Anacostia River at CSO Outfall 019. Flow in excess of 400 mgd overflows to the Anacostia River. Three inflatable dams control the routing of flows to the NEBSF and to the Anacostia River. There are two flow meters: one controls the operation of the dam and the second records flow through the facility.

On September 25, 2012, DC Water notified EPA that the sequence of operations was changed at the Swirl Facility, wherein the dams were set to deflate at 250 mgd rate instead of the previous set point of 350-400 mgd. This change in operation was required to protect the employees and facilities at

Structure 24 and to reduce the risk of the Swirl Facility control room flooding when flows were rapidly increasing in the sewer. This operation has been maintained throughout 2014. DC Water is installing additional flow meters at the facility to enhance operations. Upon completion and testing of the meters, DC Water will evaluate the optimal sequencing for deflation of the inflatable dams at Structure 24 and establish new set points, if necessary, for operation of the facility.

Treatment processes at this facility include mechanical screening of influent combined sewage, followed by concentration of solid materials in three swirl concentrator tanks and disinfection of the treated effluent. The concentrated, solids-bearing underflow is discharged to the 48-inch East Side Interceptor Relief Sewer, where it flows by gravity to the East Side Pumping Station. The East Side Pumping Station then pumps the discharge to BPAWWTP.

2.2.5 CSS Pumping Stations

Virtually all the wastewater that is conveyed to BPAWWTP, including the contribution from surrounding jurisdictions and federal facilities, must be pumped. The major CSS facilities that pump wastewater to Blue Plains are as follows:

- <u>Potomac Pumping Station</u>: This station was designed to have a firm capacity of 460 mgd and pumps the wastewater from the Potomac/Rock Creek system to BPAWWTP via force mains that cross under the Anacostia River at the confluence with the Potomac River. It also conveys wastewater loads from surrounding jurisdictions that enter the District via the Rock Creek Main Interceptor and the Potomac Interceptor. This station is manned 24 hours per day, seven days per week.
- <u>Main Pumping Station</u>: This station is split into a sanitary side and a storm side. Main PS has four-90 mgd pumps. The sanitary side primarily handles dry weather flows. Main PS pumps wastewater from the Tiber Creek and B Street/New Jersey Ave. drainage areas, as well as flows from the Potomac/Rock Creek system that enters the B St/NJ Ave. Trunk Sewer, under the Anacostia River via siphons to BPAWWTP. This station is providing a firm sanitary pumping capacity of 240 mgd. The storm side is used during wet weather events, with a firm capacity of 400 mgd, to convey storm overflows to the Anacostia River and prevent flooding of basements and streets in the surrounding low-lying drainage areas. This pumping station is manned 24 hours per day, seven days per week.
- <u>"O" Street Pumping Station</u>: Like Main Pumping Station, this station is split into sanitary and storm sides and was designed to have firm capacities of 45 and 500 mgd, respectively. The sanitary side pumps wastewater from the Southwest Interceptor, which serves a lowlying area, to one of the siphons that run under the Anacostia River to BPAWWTP. The storm side pumps combined sewage from the B Street/New Jersey Avenue Relief Sewer,

which serves a low-lying area of the B Street/New Jersey Avenue drainage area, to the Anacostia River. This station is manned 24 hours per day, seven days per week.

- <u>Poplar Point Pumping Station</u>: This unmanned station was designed to have a firm capacity of 45 mgd and pumps combined wastewater from the Anacostia Main Interceptor and Anacostia Force Main to the Outfall Sewers that lead to BPAWWTP. The Anacostia Main Interceptor conveys the combined and sanitary flows from the portion of the District that is east of the Anacostia River.
- <u>East Side Pumping Station</u>: This unmanned station was designed to have a firm capacity of 45 mgd and pumps separate sanitary wastewater from the East Side Interceptor Relief Sewer. During storm events, the East Side Interceptor Relief Sewer also transports the concentrated underflow from the Northeast Boundary Swirl Facility (NEBSF). All flows are pumped through a force main beneath the Anacostia River and into the 108" Anacostia River Force Main.

Pumping Station locations and details are shown on DC Water's "Structures Book", which is included as Appendix 2-1.

2.2.6 SCADA System

The SCADA System used by DC Water is designed to perform three major functions:

- 1. Receive data from sites associated with the certain CSO abatement projects and display this data in various formats.
- 2. Provide the capability of controlling the inflatable dams, the Outfall Sewer Control Gates and various processes at the Northeast Boundary Swirl Facility.
- 3. Transfer selected data from the master control station at the Blue Plains Wastewater Treatment Plant Administration Building to a local area network computer system for archiving and later retrieval.

The primary monitoring and control station is located in the control room at the Main Sewage Pumping Station. The second master control station is located in the central operations room inside the Blue Plains Administration Building. Although this second station has the same monitoring and capabilities as the first, it functions primarily to transfer data to a permanent database on a local area computer network.

The SCADA System monitors the following remote stations:

- Inflatable Dams
- Outfall Sewer Control Gates
- Northeast Boundary Swirl Facility
- Blue Plains Pump Station No. 2 overflow monitor receiving station

Control of these sites is automatic, except for the Outfall Sewer Control Gates, and local to each site. The SCADA System allows an operator to monitor and manually cause certain processes and functions to occur at the different facilities.

At the inflatable dams, the SCADA System monitors the following information:

- Alarms
- Blower motor operation
- Dam inflation/deflation
- Vault temperature
- Emergency alarm
- Upstream water Level
- Downstream water Level (at Structure Numbers 14, 16, 24 and 34)
- Solenoid valves operation
- Dam pressure

At the inflatable dam sites, the system is used to indicate and record the occurrence of CSO overflows and their approximate duration.

The SCADA System also monitors the intrusion alarms at the Northeast Boundary Swirl Facility and indicates which pumps are on at the pumping stations.

2.2.7 Rain Gages

DC Water operates four rain gages in the combined sewer area. The gages were placed in operation in April 2003. This data is collected and reported in the Department of Sewer Services Monthly Operations report. Gage locations are as follows:

Kalli Gage Locations			
Rain Gage	Combined Sewer Drainage		
Main Sewage Pumping Station	Tiber Creek		
Rock Creek Sewage Pumping Station	West Rock Creek Diversion Sewer		
Brentwood Reservoir	Northeast Boundary		
Bryant Street Water Pumping Station	Northeast Boundary		

Table 2-3			
Rain Gage Locations			

2.3 FACILITY INSPECTIONS AND MAINTENANCE

DC Water inspects and maintains outfall structures, regulator structures, inflatable dams, the NEB Swirl Facility and the pumping stations in accordance with its NPDES permit. There is a regular schedule for inspection and maintenance of each facility as shown on Table 2-4.

	Inspection	Maintenance		
CSO Control Structure	Interval	Interval Type		
Regulator Structures	Monthly	Monthly	Preventive Maintenance	
Outfall Structures and Tide Gates	Monthly	Monthly	Preventive Maintenance	
CSS Pumping Stations	Daily	Daily	Preventive Maintenance	
NEB Swirl Facility	Monthly	Monthly Preventive Maintenanc		
Inflatable Dams	Monthly	Monthly Preventive Maintenanc		

 Table 2-4

 CSO Control Structures Inspection and Maintenance Schedule

DC Water reports on the occurrence of inspections and maintenance in quarterly reports to EPA Region III. Excerpts from these reports are included in the Appendices as follows:

- Regulator Structures: Appendix 2-3
- Outfall Structures and Tide Gates: Appendix 2-4
- CSS Pumping Stations: Appendix 2-5
- NEB Swirl Facility: Appendix 2-6
- Inflatable Dams: Appendix 2-7

2.4 INSPECTION PROGRAM FOR MAJOR COMBINED SEWERS

The permit requires DC Water to develop an inspection program for the major combined sewers on a rotating schedule of sufficient frequency to maintain capacity requirements. In accordance with the requirements of the 3-Party Consent Decree, DC Water prepared an Operation and Maintenance Manual (O & M Manual) for the CSS and submitted this to EPA Region III in June 2004. The O & M manual included an inspection program for the major combined sewers. The inspection frequency is shown on Table 2-5. The specific sewer reaches in the District that comprise the categories listed in the table are included in the O & M Manual.

Sewer Type	Inspection Frequency, years
Outfall Sewers (listed)	25
Major Combined Sewers (listed)	25

Table 2-5 Inspection Frequencies

From 2004 to 2005, inspection of the outfall sewers (these are the major combined sewers between Blue Plains and the pumping stations) was performed. Based on these inspections, DC Water prepared and submitted to EPA Region III recommendations regarding rehabilitation of the pipeline and achieving 1076 MGD of conveyance capacity in October 2006. On April 1, 2011, DC Water has completed the rehabilitating portions of the outfall sewers and has met the Three-Party Consent Decree requirement.

DC Water has seven inspection contracts that are currently underway. They are:

- The "Sewer Cleaning and Inspection Citywide" Division 4 contract, which was awarded in October 2009 is composed of approximately 73,400 linear feet of sanitary, combined, storm sewer mains and lateral services. An additional \$102,000 was added to complete out of scope work. A total of 212,000 linear feet was inspected under this Contract. The Contract is scheduled to be closed in early 2015.
- The "Sewer Cleaning and Inspection Contract 5" which was awarded in October 2010 is composed of approximately 168,000 linear feet of sanitary, combined and storm sewer mains and lateral services. A total of 339,000 linear feet was inspected under this Contract. The linear footage inspected exceeded the original contract amount due to the completion of the Quality Adjustment program. Through this program unused and contingent money within the schedule of prices was used for the inspection of pipelines at lower unit rate prices. The Contract is scheduled to be closed in early 2015.
- The "Sewer Cleaning and Inspection Contract 6" which was awarded in December 2010 is composed of approximately 153,500 linear feet of sanitary, combined and storm sewer mains and lateral services. A total of 302,000 linear feet was inspected under this Contract. The linear footage inspected exceeded the original contract amount due to the completion of the Quality Adjustment program. Through this program unused and contingent money within the schedule of prices was used for the inspection of pipelines at lower unit rate prices. The Contract is scheduled to be closed in early 2015.
- The "Sewer Cleaning and Inspection Contract 7" which was awarded in December 2010 is composed of approximately 102,000 linear feet of sanitary, combined and storm sewer mains and lateral services. A total of 171,000 linear feet was inspected under this Contract. The

linear footage inspected exceeded the original contract amount due to the completion of the Quality Adjustment program. Through this program unused and contingent money within the schedule of prices was used for the inspection of pipelines at lower unit rate prices. The Contract is scheduled to be closed in 2015.

- The "Sewer Cleaning and Inspection Contract 8" which was awarded in May 2011 is composed of approximately 282,000 linear feet of sanitary, combined and storm sewer mains and lateral services. A total of 449,860 linear feet has been inspected under this Contract. The linear footage inspected exceeded the original contract amount due to the completion of the Quality Adjustment program. Through this program unused and contingent money within the schedule of prices was used for the inspection of pipelines at lower unit rate prices.
- The "Sewer Cleaning and Inspection Contract 9" which was awarded in June 2012 is composed of approximately 121,000 linear feet of sanitary, combined and storm sewer mains and lateral services. DC Water has completed a total of 94,000 linear feet (approximately 78%) of the sewer inspection work under this Contract.
- The "Sewer Cleaning and Inspection Contract 10" which was awarded in Summer 2013 is composed of approximately 66,000 linear feet of sanitary, combined, storm sewer mains and lateral services. DC Water has completed a total of 50,337 linear feet (approximately 76 %) of the sewer inspection work under this Contract.
- The "Sewer Cleaning and Inspection Contract 11", awarded in October 2014, is composed of approximately 113,500 linear feet of sanitary, combined, storm sewer mains and lateral services. DC Water has completed a total of 4,000 linear feet (approximately 3.5 %) of the sewer inspection work under this Contract.
- The "Sewer Cleaning and Inspection Contract 12", awarded in November 2014, is composed of approximately 110,800 linear feet of sanitary, combined, storm sewer mains and lateral services. Contractor has not started work as of December 31, 2014.
- The "Sewer Cleaning and Inspection Contract 13", awarded in August 2014, is composed of approximately 11,000 linear feet of abandoned sewers to be inspected by removing 12 bulkheads of different sizes (12 to 36 inches in diameter) to confirm whether pipes are active or abandoned. DC Water has completed a total of 2,000 linear feet (approximately 18 %) of the sewer inspection work.
- The "Potomac Interceptor Sewer Inspection" phase 3, awarded in Spring 2013, is composed of approximately 24,000 linear feet of sewer. DC Water has completed a total of 21,093 linear feet (approximately 90 %) of the sewer inspection work under this Contract.

DC Water is currently procuring one additional inspection contract provided below.

• The "Sewer Cleaning and Inspection Contract 14", to be advertised in April 2015, is composed of approximately 227,000 linear feet of sanitary, combined, storm sewer mains and lateral services.

2.5 OPERATION AND MAINTENANCE OF PUMPING STATIONS

The permit requires that Main, "O" Street, Potomac, Poplar Point and Eastside Pumping Stations be operated and maintained to provide firm pumping capacities of 240 mgd (sanitary), 45 mgd (sanitary), 460 mgd, 45 mgd and 45 mgd, respectively, after they are rehabilitated. In accordance with the Three-Party Consent Decree, all rehabilitations have been completed and the pumping stations are providing the designated firm pumping capacities.

APPENDIX 2-1

Structures Book



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

Combined Sewer System Structures Book

December 2014





Program Consultants Organization:



GREELEY AND HANSEN

JA·UNDERGROUND

Engineers/Consultants

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

Combined Sewer System Structures Book

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- 1. SITE PLANS (PLATES)
- 2. REGULATORS, INFLATABLE DAMS AND OTHER STRUCTURES
- 3. OUTFALL STRUCTURES AND TIDE GATES
- 4. PUMPING STATIONS

	Regulators, Inflatable Dams and Other Structures				
Structure				Associated NPDES	
No.	Structure Location	Туре	Sewer Counter Map No.	Outfall No.	
1	West Side Emergency Overflow, BPWWTP	Bulkheaded	CD-23-24 SW	001	
1a	East Side Emergency Overflow, BPWWTP	Bulkheaded	CD-23-24 SW	001	
1b	Bolling AFB, 650 ft. north of the south line of the Base, SW	Junction	CD-21-22 SW	-	
1c	First St. south of Joliet Street, SW	Junction	AB-23-24 SE	-	
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	Regulator	CD-19-20 SW	003	
2a	Potomac Force Main Crossover	Junction	AB-13-14 SW	-	
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	Regulator	AB-10-20 SW	003	
5	Poplar Point Pumping Station	Emergency San. Relief	AB-9-10 SE	004	
5a	North of Anacostia Drive and South Capitol St Bridge, SE	Junction	AB-7-8 SE	-	
5b	North of S. Capitol St and Firth Sterling Ave SE	Junction	AB-7-8 SE	-	
5c	North of S. Capitol St and Firth Sterling Ave SE	Junction	AB-9-10 SE	-	
6	Chicago Street and Railroad Ave, SE	Regulator	CD-9-10 SE	005	
7	W Street. and Railroad Ave, SE	Regulator	CD-9-10 SE	005	
8	Good Hope Rd, west of Nichols Ave, SE	Regulator	CD-7-8 SE	006	
9, 9a	13 th Street and Ridge Place, SE	Regulator	EF-7-8 SE	007	
10	Anacostia Ave, west of Blaine Street, NE	Emergency San. Relief	IK-1-2 NE	008	
10a	Hayes and Anacostia Ave, NE	Emergency San. Relief	LM-5-6 NE	061	
11	"O" Street Pumping Station	Regulator	A-6 SE	011(a)	
12	Storm Pump Discharge at Main Pumping Station	Regulator	A-6 SE	011	
12a	N Street between 2nd and Canal Streets SE	Bulkheaded	B-6 SE	-	
13	2 nd Street, 300 ft. north of N Place, SE	Regulator	A-6 SE	009	
14	2 nd Street, 250 ft. north of N Place, SE	Regulator – Inflatable Dam	A-6 SE	011(a)	
15	South Capitol and E Streets	Regulator – Inflatable Dam	A-3 SW	010	
15a	Half and L Streets, SE	Regulator – Inflatable Dam	A-5 SE	010	
15b	South Capitol and I Streets	Regulator	A-4 SE	010	
15c	South Capitol and I Streets	Regulator	A-5 SW	010	
15d	2nd and D Streets, SW	Siphon	A-2 SW	-	
15e-1	South of 16th St Loop, NW	Flood Control	F-1 SW	-	
15e-2	Independence Ave East of 17 th St	Flood Control	F-2 SW		
15f	10th and Constitution Ave, NW	Flood Control	D-1 NW	-	

	Regulators, Inflatable Dams and Other Structures				
Structure				Associated NPDES	
No.	Structure Location	Туре	Sewer Counter Map No.	Outfall No.	
16	North of Main Sewage Pumping Station	Regulator – Inflatable Dam	B-5 SE	012	
17	4 th and N Streets, SE, Both Extended	Regulator	B-6 SE	013	
17a	K Street between 6 th Street and 7 th Street, SE	Regulator	C-4 SE	013	
18	6 th and M Streets, SE	Regulator	B-5 SE	014	
18a	Tingey Street SE and 5 1 / 2 Street SE	Regulator	B-5 SE	014	
19	9 th and M Streets, SE	Regulator	C-5 SE	015	
19a	9 th and M Streets, SE	Regulator	C-5 SE	015	
20	12 th and M Streets, SE	Regulator	D-5 SE	016	
20a	12 th and M Streets, SE	Regulator	D-5 SE	016	
21	14 th and M Streets, SE	Regulator	E-5 SE	017	
22a	Barney Circle and Pennsylvania Ave, SE	Regulator	F-4 SE	018	
22b	Barney Circle and Pennsylvania Ave, SE	Regulator	F-4 SE	018	
22c	Barney Circle and Pennsylvania Ave, SE	Regulator	F-4 SE	018	
22d	Kentucky Ave and Potomac Street, SE	Regulator	F-3 SE	018	
22e	14 th Street and Kentucky Ave, SE	Regulator	E-2 SE	018	
23	Independence Ave, 21 st Street, SE, Extended	Regulator	G-1 SE	019	
24	Northeast Boundary Sewer at Northeast Boundary Swirl Facility	Regulator – Inflatable Dam	GH-1-2 SE	019	
24a	East Capitol St, west of RFK stadium	Regulator	GH-1-2 SE	019	
24b	East Capitol St, west of RFK stadium	Junction	GH-1-2 SE	-	
24c	East Capitol St, west of RFK stadium	Junction	GH-1-2 SE	-	
24d	East Capitol St, west of RFK stadium	Siphon	GH-1-2 SE	-	
28	21 st and Constitution Ave, NW	Regulator	H-1 NW	020	
28a	14th and Constitution Ave, NW	Bulkheaded	E-1 NW	-	
28b	14th and Constitution Ave, NW	Bulkheaded	E-1 NW	-	
29	22 nd Street, between Constitution Ave and C St, NW	Regulator	H-1 NW	020	
30	17 th and D Streets, NW	Regulator	G-2N NW	020	
31	15 th Street and Pennsylvania Ave, NW	Regulator	E-2 NW	020	
32	10th and New York Ave, NW	Abandoned	D-4 NW	-	
33	10 th and F Streets, NW	Regulator	D-3 NW	020	
34	23 rd Street, north of Constitution Ave, NW	Regulator – Inflatable Dam	I-1 NW	020	
34a	23 rd Street near C Street, NW	Regulator	I-1, NW	020	

	Regulators, Inflatable Dams and Other Structures				
Structure				Associated NPDES	
No.	Structure Location	Туре	Sewer Counter Map No.	Outfall No.	
35	Northeast of Roosevelt Bridge, NW	Regulator – Inflatable Dam	I-1 NW	021	
35a	26th and D Streets, NW (Kennedy Center Garage)	Junction	K-2 NW	-	
35b	27th and G Streets, NW	Junction	K-3 NW	-	
36	27 th and I Streets, NW	Regulator	K-4 NW	022	
36a	New Hampshire Ave and Eye Street, NW	Regulator	I-4 NW	022	
36b	19 th and L Streets, NW	Regulator	G-5 NW	022, 034	
36c	18 th and L Streets, NW	Junction	G-5 NW	-	
36d	17 th and L Streets, NW	Regulator	F-5 NW	022, 034	
36e	17 th and L Streets, NW	Junction	F-5 NW	-	
36f	18 th and M Streets, NW	Junction	G-5 NW	-	
36g	18 th and M Streets, NW	Regulator	G-5 NW	022, 034	
36h	18 th and M Streets, NW	Regulator	G-5 NW	022, 034	
37	27 th and Eye Streets, NW	Regulator	K-4 NW	022	
37a	North of 27 th and Eye Streets, NW	Junction	K-4 NW	-	
38	29 th and K Streets, NW	Regulator	K-4 NW	024	
38a	30 th Street, south of K Street, NW	Regulator	K-4 NW	024	
38b	East of 30th St and Virginia Ave, NW	Siphon	K-4 NW	-	
39	30 th and K Streets, NW	Bulkheaded	K-4 NW	-	
39a	30 th and K Streets, NW	Regulator	K-4 NW	024	
39b	30 th and K Streets, NW	Regulator	K-4 NW	024	
40	Jefferson and K Streets, NW	Bulkheaded	L-4 NW	-	
40a	Jefferson and K Streets, NW	Storm	L-4 NW	-	
40b	Jefferson and K Streets, NW	Storm	L-4 NW	-	
41	31 st and K Streets, NW	Storm	L-4 NW	-	
41a	31 st and K Streets, NW	Storm	L-4 NW	-	
41b	31 st and K Streets, NW	Regulator	L-4 NW	025	
41c	31 st and K Streets, NW	Regulator	L-4 NW	025	
42	Wisconsin Ave and K Street, NW	Regulator	L-4 NW	026	
42a	Wisconsin Ave and K Street, NW	Storm	L-4 NW	-	
43	Potomac and Water Streets, NW	Regulator	M-5 NW	027	
43a	Potomac and Water Streets, NW	Regulator	M-5 NW	027	

	Regulators, Inflatable Dams and Other Structures				
Structure				Associated NPDES	
No.	Structure Location	Туре	Sewer Counter Map No.	Outfall No.	
44	Water Street, west of Potomac St, NW	Regulator	M-5 NW	027	
45	36 th and M Streets, NW	Regulator	N-5 NW	028	
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	Regulator	O-5 NW	029	
47	38 th Street and Reservoir Road, NW	Regulator	N-8 NW	029	
47a	37 th and T Streets, NW	Regulator	N-9 NW	029	
47b	37 th and T Streets, NW	Regulator	N-9 NW	029	
47c	38 th and W Streets, NW	Regulator	O-10 NW	029	
48	Canal Rd and Foxhall Rd, NW	Abandoned	O-6 NW	030	
49	Pennsylvania Ave, east side of Rock Creek, NW	Regulator	K-5 NW	031	
50	26 and M Streets, NW	Regulator	L-5 NW	032	
51	N Street Extended, west of 25 th Street, NW	Regulator	I-6 NW	033	
52	22 nd Street between M and N Streets, NW	Regulator – Inflatable Dam	H-6 NW	034	
52a	N Street between 22 nd and 23 rd Streets, NW	Regulator	H-6 NW	034	
53	22 nd and M Streets, NW	Regulator	H-5 NW	022, 034	
53a	22 nd and M Streets, NW	Regulator	H-5 NW	022, 034	
53b	L Street between 21 st Street and New Hampshire Ave, NW	Regulator	H-5 NW	022, 034	
53c	L and 22 nd Streets, NW	Regulator	H-5 NW	022	
54	23 rd and O Streets, NW	Regulator	H-6 NW	034	
55	22 nd Street, south of Q Street, NW	Regulator	H-7 NW	035	
55a	22 nd Street, south of Q Street, NW	Regulator	H-7 NW	035	
56	23 rd and Massachusetts Ave, NW	Regulator	I-8 NW	036	
57	23 rd Street, south of Q Street, NW	Regulator	I-7 NW	036	
58	Northwest of Belmont Rd and Rock Creek and Potomac Parkway, NW	Regulator	K-10 NW	037	
59	North of Belmont Rd, east of Kalorama Cir, NW	Regulator	I-10 NW	038	
60	Connecticut Ave, east of Rock Creek, NW	Regulator	IK-11-12 NW	039	
61	Biltmore St, Extended, east of Rock Creek, NW	Regulator	H-11 NW	040	
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	Regulator	H-13 NW	041	
63	Harvard Street and Rock Creek Parkway, NW	Regulator	G-13 NW	042	
64	Adams Mill Road, south of Irving Street, NW	Regulator	G-13 NW	043	
65	Kenyon Street and Adams Mill Road, NW	Regulator	G-14 NW	044	
65a	Kenyon Street and Adams Mill Road, NW	Regulator	H-14 NW	044	

	Regulators, Inflatable Dams and Other Structures				
Structure				Associated NPDES	
No.	Structure Location	Туре	Sewer Counter Map No.	Outfall No.	
66	Adams Mill Road and Lamont Street, NW	Regulator	H-14 NW	045	
67	Park Rd, south of Piney Branch Pkwy, NW	Regulator	H-16 NW	046	
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	Regulator	G-16 NW	047	
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	Regulator	G-16 NW	048	
70	Piney Branch Parkway, west of 16 th Street, NW	Regulator	EF-17-18 NW	049	
70a	5th and Hamilton St NW	Junction	CD-21-22 NW	-	
70b	5th and Hamilton St NW	Junction	CD-21-22 NW	-	
70c	5th and Ingraham St NW	Junction	CD-21-22 NW	-	
70d	5th and Ingraham St NW	Junction	CD-21-22 NW	-	
70e	5th and Ingraham St NW	Junction	CD-21-22 NW	-	
70f	5th and Missouri Ave NW	Junction	CD-23-24 NW	-	
70g	5th and Missouri Ave NW	Junction	CD-23-24 NW	-	
70h	5th and Missouri Ave NW	Junction	CD-23-24 NW	-	
70i	5 th and Quackenbos Streets, NW	Regulator	CD-25-26 NW	049	
71	28th Street, west of Rock Creek Parkway, NW	Regulator	K-5 NW	050	
72	Olive Street Extended and Rock Creek Pkwy, NW	Regulator	K-6 NW	051	
72a	Olive Street Extended and Rock Creek Pkwy, NW	Regulator	K-6 NW	051	
73	O Street Extended and Rock Creek Parkway, NW	Regulator	I-6 NW	052	
74	Q Street, west of Rock Creek, NW	Regulator	I-7 NW	053	
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	Regulator	K-9 NW	054	
75a	Montrose Park Sewer	Junction	K-9 NW	-	
76	Massachusetts Ave and Whitehaven St, N.W.	Abandoned	K-10 NW	055	
77	Normanstone Dr Extended, west of Rock Creek, NW	Regulator	K-10 NW	056	
77a	Normanstone Dr and Normanstone Lane, NW	Regulator	IK-11-12 NW	056	
78	28th Street Extended, west of Rock Creek, NW	Regulator	I-10 NW	057	
79	Connecticut Ave and Rock Creek Parkway, NW	Regulator	IK-11-12 NW	058	
80	16 th and Rittenhouse Streets, NW	Abandoned	EF-25-26 NW	059	
81	Zoo Park Northeast of Cathedral Ave, NW	Junction	IK-13-14 NW	-	
82	25 th and P Streets, NW, both extended	Junction	I-7 NW	-	
83	South of Porter St Bridge and Rock Creek, NW	Junction	IK-15-16 NW	-	
83a	West Beach Drive and Broad Branch Road, NW	Junction	IK-19-20 NW	-	

	Regulators, Inflatable Dams and Other Structures				
Structure				Associated NPDES	
No.	Structure Location	Туре	Sewer Counter Map No.	Outfall No.	
83b	West Beach Drive and Broad Branch Road, NW	Junction	IK-19-20 NW	-	
84	26 th and P Streets, NW	Regulator	K-7 NW	060	
84a	26 th and P Streets, NW	Regulator	I-7 NW	060	
85	South of Beach Drive and Old Military Rd, NW	Junction	GH-23-24 NW	-	
85a	South of Beach Drive and Old Military Rd, NW	Junction	GH-23-24 NW	-	
Bolling-1	Bolling AFB Site Plan	-	-	-	

Outfall Structures and Tide Gates							
NPDES				Sewer Counter	Tide Gate	Submergence	Submergence
Outfall	Outfall Location	Type of Outfall	Receiving Stream	Map No.	Present?	at Low Tide?	at High Tide?
		Wastewater					
	Blue Plains Wastewater Treatment	Treatment Plant					
001	Plant, Excess Flow Treatment Outfall	Outfall	Potomac River East Side	CD 25-26 SW	No	Submerged	Submerged
		Wastewater					
002	Blue Plains Wastewater Treatment	Treatment Plant			N	G 1 1	G 1 1
002	Plant, Complete Treatment Outfall	Outfall	Potomac River East Side	CD 25-26 SW	No	Submerged	Submerged
002	Bolling Air Force Base, at Giavanolli	CSO	Determon Dimen Freet Side	CD 21 22 CW	Vee	Deutie1	Dout: 1
003	and Chanute, Sw		Potomac River East Side	CD 21-22 SW	res	Partial	Partial
	Downstream side of Fredrick Douglas	for Poplar Point					
004	Bridge	P S	Anacostia River East Side	AB-7-8 SE	Yes	Partial	Partial
	Across from Navy Yard aligned with				100		
005	Parsons Ave., SE	CSO	Anacostia River East Side	CD-7-8 SE	Yes	Partial	Partial
	Good Hope Road and Welsh Memorial						
006	Bridge	CSO	Anacostia River East Side	CD-7-8 SE	Yes	Partial	Partial
	Between 11 th St. and Anacostia						
007	Bridges, SE	CSO	Anacostia River East Side	CD-7-8 SE	Yes	Partial	Partial
		Relief for					
	Anacostia Avenue, west of Blaine St.	Anacostia Main					
008	NE	Interceptor	Anacostia River East Side	IK 1-2 NE	Yes	Partial	Partial
009	O St. Sewage Pumping Station, SE	CSO	Anacostia River West Side	A-6 SE	Yes	Partial	Partial
010	O St. Sewage Pumping Station, SE	CSO	Anacostia River West Side	A-6 SE	No	Partial	Partial
011	Main Sewage Pumping Station, SE	CSO	Anacostia River West Side	A-6 SE	No	Partial	Partial
011(a)	Main Sewage Pumping Station, SE	CSO	Anacostia River West Side	A-6 SE	Yes	Partial	Partial
012	Main Sewage Pumping Station, SE	CSO	Anacostia River West Side	B-6 SE	Yes	Partial	Partial
	Southeast Federal Center, aligned with						
013	4 th St.	CSO	Anacostia River West Side	B-6 SE	Yes	Submerged	Submerged
014	Navy Yard, aligned with 6 th St., SE	CSO	Anacostia River West Side	B-6 SE	Yes	Partial	Partial
015	Navy Yard, aligned with 9th Street, SE	CSO	Anacostia River West Side	CD-7-8 SE	No	Partial	Partial
016	12th and O Streets, SE	CSO	Anacostia River West Side	D-6 SE	Yes	Partial	Partial
017	M and Water Street, SE	CSO	Anacostia River West Side	E-5 SE	Yes	Partial	Partial

Outfall Structures and Tide Gates							
NPDES				Sewer Counter	Tide Gate	Submergence	Submergence
Outfall	Outfall Location	Type of Outfall	Receiving Stream	Map No.	Present?	at Low Tide?	at High Tide?
	East of Barney Circle and South of						
018	Pennsylvania Avenue Bridge, SE	CSO	Anacostia River West Side	F-5 SE	Yes	Partial	Partial
	Adjacent to Service Drive behind swirl						
019	facility and D.C. General Hospital	CSO	Anacostia River West Side	H-3 SE	No	Partial	Partial
	Rock Creek Parkway and				* 7		
020	Independence, NW	CSO	Potomac River East Side	I-I SW	Yes	Partial	Partial
021	Rock Creek Parkway and C St., NW	CSO	Potomac River East Side	K-I NW	No	Submerged	Submerged
022	Rock Creek Parkway and G St., NW	CSO	Potomac River East Side	K-3 NW	Yes	Partial	Partial
023	South of 30 th and K Streets, NW	Abandoned CSO	Potomac River East Side	Abandoned	Abandoned	Abandoned	Abandoned
024	South of 30 th and K Streets, NW	CSO	Potomac River East Side	K-4 NW	Yes	Partial	Submerged
025	South of 31st and K Streets, NW	CSO	Potomac River East Side	L-4 NW	Yes	Partial	Submerged
	Wisconsin Avenue and Water Street,						
026	NW	CSO	Potomac River East Side	L-4 NW	Yes	Partial	Submerged
027	33 rd and Water Sts., NW	CSO	Potomac River East Side	M-4 NW	No	Partial	Partial
	Key bridge and Whitehurst Freeway,	660					
028	NW	CSO	Potomac River East Side	N-5 NW	No	Submerged	Submerged
020	Adjacent to C&O Canal, aligned with	CSO	Determe Dimer Feet Side	O 5 NW	Vac	Dential	Carlana and a
029	58 SLINW		Potomac River East Side	O-5 NW	res	Partial	Submerged
030	Fox Hall and Canal Road	Abandoned CSO	-	Abandoned	Abandoned	Abandoned	Abandoned
021	Rock Creek Pkwy and Pennsylvania	CSO	Dools Crook Fast Side	V 5 NW	No	Not submargad	Not submargad
031	Avenue, NW.	CSO	Rock Creek East Side	K-JINW	No	Not submerged	Not submerged
032	20th and M Street, NW.	CSU	KOCK CIEEK East Side	K-JINW	INO	Submerged	Submerged
033	Across street from St. Francis Jr. High	CSO	Pock Crook Fast Sido	I 6 NW	Vac	Not submargad	Not submorged
035	Just wast of St. Francis Ir. High and	0.50	NOCK CICCK Last Sluc	1-011	105	Not submerged	Not submerged
034	north of N St., NW	CSO	Rock Creek East Side	I-6 NW	Yes	Partial	Partial
035	P St Bridge and Rock Creek Parkway	CSO	Rock Creek East Side	I-7 NW	Yes	Partial	Partial
036	22nd Street South of O Street NW	CSO	Rock Creek East Side	I-7 NW	Yes	Partial	Partial
050	Waterside Dr. and Rock Creek		Rook Crock Lust Side		105		
037	Parkway	CSO	Rock Creek East Side	K-10 NW	Yes	Not submerged	Not submerged
	Between arch footbridge and						- st susmorged
	Connecticut Ave., north of Kalorama						
038	Circle, NW.	CSO	Rock Creek East Side	I-10 NW	Yes	Partial	Partial

Outfall Structures and Tide Gates							
NPDES				Sewer Counter	Tide Gate	Submergence	Submergence
Outfall	Outfall Location	Type of Outfall	Receiving Stream	Map No.	Present?	at Low Tide?	at High Tide?
	Connecticut Avenue Bridge and Rock						
039	Creek Parkway, NW.	CSO	Rock Creek East Side	IK-11-12 NW	Yes	Partial	Partial
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	CSO	Rock Creek East Side	H-11 NW	Yes	Partial	Partial
041	Beach Dr. and Ontario Pl., NW	CSO	Rock Creek East Side	H-13 NW	Yes	Not submerged	Not submerged
042	Harvard St. and Beach Dr NW.	CSO	Rock Creek East Side	H-13 NW	Yes	Not submerged	Not submerged
043	Upstream of Harvard St. and Beach Dr NW.	CSO	Rock Creek East Side	H-13 NW	Yes	Not submerged	Not submerged
044	Kenyon Street and Beach Dr., NW.	CSO	Rock Creek East Side	H-14 NW	Yes	Partial	Partial
045	North of Beach Dr. and Walbridge Pl, NW.	CSO	Rock Creek East Side	H-14 NW	Yes	Partial	Partial
046	Piney Branch Parkway and Park Road, NW.	CSO	Rock Creek East Side	H-16 NW	No	Not submerged	Not submerged
047	Piney Branch Parkway and Ingleside Terrace	CSO	Rock Creek East Side	G-16 NW	Yes	Not submerged	Not submerged
048	South of Piney Branch Parkway and 17 th St.	CSO	Rock Creek East Side	G-16 NW	Yes	Not submerged	Not submerged
049	North of Piney Branch Parkway and 17 th St.	CSO	Rock Creek East Side	EF-17-18 NW	Yes	Not submerged	Not submerged
050	Rock Creek Parkway and L St., NW	CSO	Rock Creek East Side	K-5 NW	Yes	Not submerged	Not submerged
051	Across Rock Creek Parkway, aligned with Olive St., NW.	CSO	Rock Creek East Side	K-6 NW	Yes	Not submerged	Not submerged
052	Between P and Penna. Ave Bridges, aligned with O Street, NW.	CSO	Rock Creek West Side	I-6 NW	Yes	Not submerged	Not submerged
053	Q St. Bridge and Rock Creek Parkway, NW.	CSO	Rock Creek West Side	I-7 NW	Yes	Partial	Partial
054	Massachusetts Avenue and Rock Creek Parkway, NW.	CSO	Rock Creek West Side	K-9 NW	Yes	Partial	Partial
055	Massachusetts Avenue and Rock Creek Parkway, NW.	Abandoned CSO	Rock Creek West Side	Abandoned	Abandoned	Abandoned	Abandoned
056	Normanstone Dr. and Rock Creek Parkway, NW.	CSO	Rock Creek West Side	K-10 NW	Yes	Not submerged	Not submerged

Outfall Structures and Tide Gates							
NPDES				Sewer Counter	Tide Gate	Submergence	Submergence
Outfall	Outfall Location	Type of Outfall	Receiving Stream	Map No.	Present?	at Low Tide?	at High Tide?
	28th Street and Rock Creek Parkway,						
057	NW	CSO	Rock Creek West Side	I-10 NW	Yes	Not submerged	Not submerged
	Connecticut Avenue and Rock Creek						
058	Parkway, NW.	CSO	Rock Creek West Side	IK-11-12 NW	No	Partial	Partial
059	16th and Rittenhouse Streets, NW.	Abandoned CSO	Rock Creek West Side	Abandoned	Abandoned	Abandoned	Abandoned
	North of P Street Bridge and Rock						
060	Creek Pkwy, NW	CSO	Rock Creek West Side	I-7 NW	Yes	Partial	Partial
		Emergency					
		Bypass for Upper					
		Anacostia Sewage	Tributary to Anacostia East				
061	Hayes and Anacostia Ave, NE	P.S.	Side	LM-5-6 NE	Yes	Submerged	Submerged
		Emergency					
		Bypass for Earl	Tributary to Anacostia West	-			
062	Earl Place Pumping Station, SE	Place Sewage P.S.	Side	IK-13-14 NE	No	Not submerged	Not submerged

Sewage Pumping Stations					
		Sewer Counter			
ID No.	Name	Map No.			
PS-1	Raw Wastewater Pumping Station No. 1 (Blue Plains Wastewater Treatment Plant)	CD-23-24, SW			
PS-2	Raw Wastewater Pumping Station No. 2 (Blue Plains Wastewater Treatment Plant)	CD-23-24, SW			
PS-3	Main Sewage Pumping Station	B-6, SE			
PS-3a	Main Sewage Pumping Station Detail	B-6, SE			
PS-4	O Street Sewage Pumping Station	A-6, SE			
PS-5	Potomac Sewage Pumping Station	K-1, NW			
PS-6	Rock Creek Sewage Pumping Station	K-4, NW			
PS-7	Poplar Point Sewage Pumping Station	AB-9-10, SE			
PS-8	Eastside Sewage Pumping Station	H-2, SE			
PS-9	Upper Anacostia Sewage Pumping Station	LM-5-6, NE			
PS-10	Earl Place Sewage Pumping Station	IK-13-14, NE			
PS-11	Third & Constitution Sewage Pumping Station	B-1, NW			
PS-12	WSSC Anacostia Pumping Stations 1 &2				

Section 1

Site Plans (Plates)






U11163/MASTPLAN/TECH MEM/STRUCTURE BOOK/STR_CS0_PLATE/PLATE_2.DWG















Section 2

Regulators, Inflatable Dams and Other Structures









FILE: H:/1163/MAST PLAN/TECH MEMO/WASA STRUCTURE BOOK/CURRENT/STRUCTURE/STR-02.DWG





FILE: H:/1163/MAST PLAN/TECH MEMO/WASA STRUCTURE BOOK/CURRENT/STRUCTURE/STR-04.DWC





FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-O5A 1:1 04/22/04 13:21 GH-G





FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-05C 1:1 04/22/04 13:25 GH-G



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DW6/STR-06 1:1 04/22/04 13:28 GH-G



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-07 1:1 04/22/04 13:32 GH-G





FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-09 1:1 04/22/04 11:24 GH-C







FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-10 1:1 04/22/04 13:44 CH-C







FILE: J:/1163/MASTFLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-12 1:1 04/22/04 14:13 GH-G



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FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-15D 1:1 04/22/04 14:36 CH-C







FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-17 1:1 04/22/04 14:51 GH-G





FILE: H:/1163/MAST PLAN/TECH MEMO/WASA STRUCTURE BOOK/CURRENT/STRUCTURE/STR-18.DWC





FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-19-19A 1:1 04/23/04 16:06 GH-C



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FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-21 1:1 04/23/04 09:54 GH-G



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FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-36 1:1 04/23/04 12:50 GH-C



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-36P 1:1 04/23/04 12:53 GH-G



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-36B 1:1 04/23/04 12:55 CH-C



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FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-41A 1:1 04/23/04 13:21 GH-C





FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/CURRENT/STRUCTURES/STR-43 & 43A.DWG



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-44 1:1 04/23/04 13:25 GH-C





FILE: J:\1163\MASTPLAN\TECH MEM\STRUCTURE BOOK\DWG\STR-46 1:1 04/23/04 13:27 GH-C



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-47 1:1 04/23/04 13:29 GH-G











FILE: J:\1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-50 1:1 04/23/04 13:42 GH-C











FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-53B 1:1 04/23/04 13:50 GH-C









FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-56 1:1 04/23/04 13:56 CH-C



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-57 1:1 04/23/04 14:38 CH-C



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-58 1:1 04/23/04 14:40 GH-C





FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-60 1:1 04/23/04 14:47 CH-C






FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-63 1:1 04/23/04 14:53 CH-C



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-64 1:1 04/23/04 14:54 GH-G













FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-69 1:1 04/23/04 15:07 CH-C







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FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-77 1:1 04/23/04 15:26 GH-G



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-77A 1:1 04/23/04 15:27 GH-G



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-78 1:1 04/23/04 15:28 GH-G





FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-80 1:1 04/23/04 15:31 CH-C



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/STR-81 1:1 04/23/04 15:33 GH-G





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Section 3

Outfall Structures and Tide Gates



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/NPDES-001



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/NPDES-001


FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/UPDES-003



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/NPDES-004







FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/NPDES-007



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/NPDES-008



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/NPDES-009



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/UPDES-010



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/UPDES-011









FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALL/NPDES-014

NPDES NO. 015







REVISED BY: EPMC-3A REVISED DATE: OCTOBER 2004 OUTFALL TYPE: CSO





FILE: J.1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/NPDES-017



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/NPDES-018



FILE: J:/1103/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/NPDES-019



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/UPDES-020



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/UPDES-021



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FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/NPDES-024



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FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/NPDES-027



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FILE: J:/1163/MASTFLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/NPDES-033



FILE: J:/1163/MFATPLEN/TECH MEM/STRUCTURE BOOK/OUTFALLS/NPDES-034



FILE: J:/1103/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/UPDES-035









FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALL/NPDES-039




FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/NPDES-041









FILE: J:/1163/MASTFLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/NPDES-045















FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/NPDES-051







FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/NPDES-054





FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/OUTFALLS/UPDES-057









Section 4

Pumping Stations





FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/PS-02 1:1 04/20/04 15:21 GH-G



FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/PS-03 1:1 04/20/04 15:23 GH-C



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FILE: J:/1163/MASTPLAN/TECH MEM/STRUCTURE BOOK/DWG/PS-09








Combined Sewer System Structures Book





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

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APPENDIX 2-2

Regulator Structure Capacities

Regulator Structure Capacities

<u>Note:</u> The capacities of the diversion structures vary depending on water levels in the combined sewer and the downstream interceptor. As result, the capacities of the diversion structures were determined by reviewing model results developed for the LTCP.

Struct No.	Location	Capacity (mod)
2	Bolling AFB, 2250 ft, north of the south line of the Base, SW	Overflow . no diversion to interceptor
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	Overflow, no diversion to interceptor
5	Poplar Point Pumping Station	Overflow, no diversion to interceptor
6	Chicago Street and Railroad Ave, SE	6.5
7	W Street. and Railroad Ave, SE	0.75
8	Good Hope Rd, west of Nichols Ave, SE	Overflow, no diversion to interceptor
9	13 th Street and Ridge Place, SE	4.3
11	"O" Street Pumping Station	Overflow, no diversion to interceptor
12	Storm Pump Discharge at Main Pumping Station	Overflow , no diversion to interceptor
13	2 nd Street, 300 ft. north of N Place, SE	2
14	2 nd Street, 250 ft. north of N Place, SE	120
15	South Capitol and E Streets	Overflow, no diversion to interceptor
15a 15b	Half and L Streets, SE	Overriow, no diversion to interceptor
150	South Capitol and I Streets	4.5
16	North of Main Sewage Pumping Station	190
17	A^{th} and N Streets, SE Both Extended	2
17a	K Street between 6 th Street and 7 th Street SE	13
18	R Street between 0 Street and 7 Street, SE	75
19	0 th and M Streets, SE	1 1
19a	9 th and M Streets, SE	0.18
20	13 th and M Streets, SE	9.75
202	12 and M Streets, SE	9.75
200	12 and M Streets, SE	9.5
229	14 and M Streets, SE Barney Circle and Pennsylvania Ave. SE	0.25
22a 22b	Barney Circle and Pennsylvania Ave, SE	0.25
22c	Barney Circle and Pennsylvania Ave. SE	0.25
22d	Kentucky Ave and Potomac Street, SE	6.5
22e	14 th Street and Kentucky Ave, SE	12.5
23	Independence Ave, 21 st Street, SE, Extended	5.5
24a	East Capitol St, west of RFK stadium	80
28	21 st and Constitution Ave, NW	5
29	22 nd Street, between Constitution Ave and C St, NW	20.5
30	17 th and D Streets, NW	6.75
31	15 th Street and Pennsylvania Ave, NW	4
33	10 th and F Streets, NW	7
34	23 rd Street, north of Constitution Ave, NW	45
34a	23 rd Street near C Street, NW	17
35	Northeast of Roosevelt Bridge, NW	165
36	27 th and I Streets, NW	165
36a	New Hampshire Ave and Eye Street, NW	2.6
36b	19 th and L Streets, NW	Overflow, no diversion to interceptor
36h	18 th and M Streets, NW	560, 52
37	27 th and Eye Streets, NW	50
38	29 th and K Streets, NW	26
38a	30 th Street, south of K Street, NW	26
39a	30 th and K Streets, NW	2
39b	30 th and K Streets, NW	1
41b	31 st and K Streets, NW	2.2
41c	31 st and K Streets, NW	0.1
42	Wisconsin Ave and K Street, NW	2.1
43	Potomac and Water Streets, NW	Overflow, no diversion to interceptor
43a	Potomac and Water Streets, NW	7.5
44	Water Street, west of Potomac St, NW	Overflow , no diversion to interceptor
45	36 ^{°°} and M Streets, NW	2.5
46	Lanai Kd, 1000tt. east of Foxhall Kd, NW	11
4/	38" Street and Reservoir Road, NW	7.5
47a	37" and T Streets, NW	7.5

Regulator Structure Capacities

<u>Note:</u> The capacities of the diversion structures vary depending on water levels in the combined sewer and the downstream interceptor. As result, the capacities of the diversion structures were determined by reviewing model results developed for the LTCP.

Struct No.LocationCapacity (mgd)47b37 th and T Streets, NWJunction chamber, no diversion47c38 th and W Streets, NW249Pennsylvania Ave, east side of Rock Creek, NW0.255026 and M Streets, NW2.951N Street Extended, west of 25 th Street, NWOverflow, no diversion to interceptor5222 nd Street between M and N Streets, NW2.952aN Street between 22 nd and 23 rd Streets, NW35322 nd and M Streets, NW46	Capacity (mgd) Junction chamber, no diversion 2 0.25 2.9 Overflow , no diversion to interceptor 2.9 3 46
47b 37 th and T Streets, NW Junction chamber, no diversion 47c 38 th and W Streets, NW 2 49 Pennsylvania Ave, east side of Rock Creek, NW 0.25 50 26 and M Streets, NW 2.9 51 N Street Extended, west of 25 th Street, NW Overflow , no diversion to interceptor 52 22 nd Street between M and N Streets, NW 2.9 52a N Street between 22 nd and 23 rd Streets, NW 3 53 22 nd and M Streets, NW 46	Junction chamber, no diversion 2 0.25 2.9 Overflow , no diversion to interceptor 2.9 3 46
47c 38 th and W Streets, NW 2 49 Pennsylvania Ave, east side of Rock Creek, NW 0.25 50 26 and M Streets, NW 2.9 51 N Street Extended, west of 25 th Street, NW Overflow , no diversion to interceptor 52 22 nd Street between M and N Streets, NW 2.9 52a N Street between 22 nd and 23 rd Streets, NW 3 53 22 nd and M Streets, NW 46	2 0.25 2.9 Overflow , no diversion to interceptor 2.9 3 46
49 Pennsylvania Ave, east side of Rock Creek, NW 0.25 50 26 and M Streets, NW 2.9 51 N Street Extended, west of 25 th Street, NW Overflow , no diversion to interceptor 52 22 nd Street between M and N Streets, NW 2.9 51a N Street between 22 nd and 23 rd Streets, NW 3 53 22 nd and M Streets, NW 46	0.25 2.9 Overflow , no diversion to interceptor 2.9 3 46
50 26 and M Streets, NW 2.9 51 N Street Extended, west of 25 th Street, NW Overflow , no diversion to interceptor 52 22 nd Street between M and N Streets, NW 2.9 52a N Street between 22 nd and 23 rd Streets, NW 3 53 22 nd and M Streets, NW 46	2.9 Overflow , no diversion to interceptor 2.9 3 46
51 N Street Extended, west of 25 th Street, NW Overflow, no diversion to interceptor 52 22 nd Street between M and N Streets, NW 2.9 52a N Street between 22 nd and 23 rd Streets, NW 3 53 22 nd and M Streets, NW 46	Overflow , no diversion to interceptor 2.9 3 46
52 22 nd Street between M and N Streets, NW 2.9 52a N Street between 22 nd and 23 rd Streets, NW 3 53 22 nd and M Streets, NW 46	<u> </u>
52a N Street between 22 nd and 23 rd Streets, NW 3 53 22 nd and M Streets, NW 46	3 46
53 22 nd and M Streets, NW 46	46
53a 22 nd and M Streets, NW 32	32
53b I Street between 21 st Street and New Hampshire Ave. NW 19, 22	19. 22
53c Land 2 nd Streets, NW 2	2
54 23 rd and O Streets NW 0.3	0.3
55 20 rd Street south of O Street NW 140	140
55a 2 ^{ofd} Street south of O Street NW 650	650
56 23 ^{cd} and Massachusetts Ave NW 13	13
57 23 rd Street south of O Street NW 16	16
58 Northwest of Belmont Road and Rock Creek and Potomac Parkway. N 3.1	N 3.1
59 North of Belmont Rd, east of Kalorama Cir, NW 2.2	2.2
60 Connecticut Ave, east of Rock Creek, NW 14	14
61 Biltmore St, Extended, east of Rock Creek, NW 6.5	6.5
62 Ontario Rd, Extended, and Rock Creek Pkwy, NW 7	7
63 Harvard Street and Rock Creek Parkway, NW 9.5	9.5
64 Adams Mill Road, south of Irving Street, NW 21.5	21.5
65 Kenyon Street and Adams Mill Road, NW 1.5	1.5
65a Kenyon Street and Adams Mill Road, NW 1.65	1.65
66 Adams Mill Road and Lamont Street, NW 6	6
67 Park Rd , south of Piney Branch Pkwy, NW 4.4	4.4
68 Ingleside Lerrance, Extended and Piney Branch Parkway, NW 6.25	6.25
59 Mit. Pleasant Street, Extended and Plney Branch Parkway, NVV 9.5	9.5
70 Piney Branch Parkway, west of 16" Street, NW 470	470
70 5" and Quackenbos Streets, NW Internal flow junction	Internal flow junction
1 28" Street, west of Rock Creek Parkway, NW 38	38
72 Olive Street Extended and Rock Creek Pkwy, NW 29	29
72a Olive Street Extended and Rock Creek Pkwy, NW 1.5	1.5
73 O Street Extended and Rock Creek Parkway, NW 25	25
74 Q Street, west of ROCK Creek, NW U.5	0.5 Overflow, no diversion to intercenter
73 West side of ROCK CHEEK, 300 II. Soluti of Widssachusetts Ave, NW Overlow, no diversion to interceptor	Overflow, no diversion to interceptor
77 Normalistone Di Exterided, west of Kock Creek, NW Overnow, To diversion to interceptor	Overflow, no diversion to interceptor
78 28th Street Extended west of Rock Creek NW 115	
79 Connecticut Ave and Rock Creek Parkway, NW 11	1.1
84 26 th and P Steats NW 33	33
84a 26 th and P Streets NW Internal flow junction	Internal flow junction

APPENDIX 2-3

Inspection and Maintenance Summaries: Regulators

Regulator Structures January 2014

Structure		Associated NPDES	Date	С	ondition		
Number	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	01/31/14	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	01/31/14	*			
5	Poplar Point Pumping Station	004	01/31/14	*			
6	Chicago Street and Railroad Ave, SE	005	01/06/14	*			
7	W Street and Railroad Ave, SE	005	01/06/14	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	01/06/14	*			
11	"O" Street Pumping Station	011(a)	01/13/14	*			
12	Storm Pump Discharge at Main Pumping Station	011	01/13/14	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	01/31/14	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	01/31/14	*			
15	South Capitol and E Streets	010	01/13/17	*			
15a	Half and L Streets, SE	010	01/13/17	*			
15b	South Capitol and I Streets	010	01/13/17	*			
15c	South Capitol and I Streets	010	01/13/17	*			
16	North of Main Sewage Pumping Station	012	01/13/17	*			
17	4 th and N Streets, SE, Both Extended	013	N/A				Construction for Clean Rivers Project
17a	K Street between 6 th Street and 7 th Street, SE	013	01/15/14	*			
18	6 th and M Streets, SE	014	01/08/14	*			
19	9 th and M Streets, SE	015	01/08/14	*			
19a	9 th and M Streets, SE	015	01/08/14	*			
20	12 th and M Streets, SE	016	N/A				Construction for Clean Rivers Project
20a	12 th and M Streets, SE	016	01/09/14	*			

Structure		Associated NPDES	Date	C	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
21	14 th and M Streets, SE		N/A				Construction for
		017					Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	01/10/14	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	01/10/14	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	01/10/14	*			
22d	Kentucky Ave and Potomac Street, SE	018	01/03/14	*			
22e	14 th Street and Kentucky Ave, SE	018	01/03/14	*			
23	Independence Ave, 21 st Street, SE, Extended	019	01/15/14	*			
24a	East Capitol St, west of RFK stadium	019	01/15/14	*			
28	21 st and Constitution Ave, NW	020	01/27/14	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	01/27/14	*			
30	17 th and D Streets, NW	020	01/09/14	*			
31	15 th Street and Pennsylvania Ave, NW	020	01/09/14	*			
33	10 th and F Streets, NW	020	01/09/14	*			
34	23 rd Street, north of Constitution Ave, NW	020	01/31/14	*			
34a	23 rd Street near C Street, NW	020	01/27/14	*			
35	Northeast of Roosevelt Bridge, NW	021	01/27/14	*			
36	27 th and I Streets, NW	022	01/09/14	*			
36a	New Hampshire Ave and Eye Street, NW	022	01/15/14	*			
36b	19 th and L Streets, NW	022, 034	01/15/14	*			
36d	17 th and L Streets, NW	022, 034	01/10/14	*			
36g	18 th and M Streets, NW	022, 034	01/10/14	*			
36h	18 th and M Streets, NW	022, 034	01/10/14	*			
37	27 th and Eye Streets, NW	022	01/10/14	*			
38	29 th and K Streets, NW	024	01/15/14	*			
38a	30 th Street, south of K Street, NW	024	01/10/14	*			
39a	30 th and K Streets, NW	024	01/17/14	*			
39b	30 th and K Streets, NW	024	01/17/14	*			
41b	31 st and K Streets, NW	025	01/17/14	*			
41c	31 st and K Streets, NW	025	01/17/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
42	Wisconsin Ave and K Street, NW	026	01/21/14	*			
43	Potomac and Water Streets, NW	027	01/21/14	*			
43a	Potomac and Water Streets, NW	027	01/21/14	*			
44	Water Street, west of Potomac St, NW	027	01/21/14	*			
45	36 th and M Streets, NW	028	01/06/14	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	01/06/14	*			
47	38 th Street and Reservoir Road, NW	029	01/06/14	*			
47a	37 th and T Streets, NW	029	01/06/14	*			
47b	37 th and T Streets, NW	029	01/06/14	*			
47c	38 th and W Streets, NW	029	01/06/14	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	01/27/14	*			
51	N Street Extended, west of 25 th Street, NW	033	01/27/14	*			
52	22 nd Street between M and N Streets, NW	034	01/31/14	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	01/31/14	*			
53	22 nd and M Streets, NW	022, 034	01/31/14	*			
53a	22 nd and M Streets, NW	022, 034	01/31/14	*			
53b	L Street between 21st Street and New Hampshire Ave, NW	022, 034	01/31/14	*			
53c	L and 22 nd Streets, NW	022	01/31/14	*			
54	23 rd and O Streets, NW	034	01/17/14	*			
55	22 nd Street, south of Q Street, NW	035	01/17/14	*			
55a	22 nd Street, south of Q Street, NW	035	01/17/14	*			
56	23 rd and Massachusetts Ave, NW	036	01/17/14	*			
57	23 rd Street, south of Q Street, NW	036	01/17/14	*			
58 ¹	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	01/02/14	*			
60	Connecticut Ave, east of Rock Creek, NW	039	01/06/14	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	01/06/14	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	01/08/14	*			
63	Harvard Street and Rock Creek Parkway, NW	042	01/08/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
64	Adams Mill Road, south of Irving Street, NW	043	01/08/14	*			
65	Kenyon Street and Adams Mill Road, NW	044	01/08/14	*			
65a	Kenyon Street and Adams Mill Road, NW	044	01/08/14	*			
66	Adams Mill Road and Lamont Street, NW	045	01/08/14	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	01/08/14	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	01/08/14	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	01/08/14	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	01/08/14	*			
70i	5 th and Quackenbos Streets, NW	049	01/09/14	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	01/27/14	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	01/17/14	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	01/17/14	*			
73	O Street Extended and Rock Creek Parkway, NW	052	01/17/14	*			
74 ¹	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	01/27/14	*			
77 ¹	Normanstone Dr Extended, west of Rock Creek, NW	056	N/A				
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	N/A				
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	01/17/14	*			
84a	26 th and P Streets, NW	060	01/17/14	*			

1. Structure no longer functions as a combined sewer overflow regulator structure.

Regulator Structures February 2014

Structure		Associated NPDES	Date	С	ondition		
Number	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	02/06/14	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	02/06/14	*			
5	Poplar Point Pumping Station	004	02/05/14	*			
6	Chicago Street and Railroad Ave, SE	005	02/05/14	*			
7	W Street and Railroad Ave, SE	005	02/05/14	*			
8^{1}	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	02/12/14	*			
11	"O" Street Pumping Station	011(a)	02/05/14	*			
12	Storm Pump Discharge at Main Pumping Station	011	02/05/14	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	02/25/14	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	02/25/14	*			
15	South Capitol and E Streets	010	02/13/14	*			
15a	Half and L Streets, SE	010	02/13/14	*			
15b	South Capitol and I Streets	010	02/09/14	*			
15c	South Capitol and I Streets	010	02/09/14	*			
16	North of Main Sewage Pumping Station	012	02/05/14	*			
17	4 th and N Streets, SE, Both Extended	013	N/A				Construction for Clean Rivers Project
17a	K Street between 6 th Street and 7 th Street, SE	013	02/19/14	*			
18	6 th and M Streets, SE	014	02/04/14	*			
19	9 th and M Streets, SE	015	02/05/14	*			
19a	9 th and M Streets, SE	015	02/08/14	*			
20	12 th and M Streets, SE	016	N/A				Construction for Clean Rivers Project
20a	12 th and M Streets, SE	016	02/08/14	*			5

Structure		Associated NPDES	Date	C	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
21	14 th and M Streets, SE		N/A				Construction for
		017					Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	02/19/14	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	02/19/14	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	02/19/14	*			
22d	Kentucky Ave and Potomac Street, SE	018	02/20/14	*			
22e	14 th Street and Kentucky Ave, SE	018	02/07/14	*			
23	Independence Ave, 21 st Street, SE, Extended	019	02/12/14	*			
24a	East Capitol St, west of RFK stadium	019	02/07/14	*			
28	21 st and Constitution Ave, NW	020	02/05/14	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	02/05/14	*			
30	17 th and D Streets, NW	020	02/07/14	*			
31	15 th Street and Pennsylvania Ave, NW	020	02/07/14	*			
33	10 th and F Streets, NW	020	02/07/14	*			
34	23 rd Street, north of Constitution Ave, NW	020	02/07/14	*			
34a	23 rd Street near C Street, NW	020	02/05/14	*			
35	Northeast of Roosevelt Bridge, NW	021	02/05/14	*			
36	27 th and I Streets, NW	022	02/12/14	*			
36a	New Hampshire Ave and Eye Street, NW	022	02/12/14	*			
36b	19 th and L Streets, NW	022, 034	02/07/14	*			
36d	17 th and L Streets, NW	022, 034	02/07/14	*			
36g	18 th and M Streets, NW	022, 034	02/07/14	*			
36h	18 th and M Streets, NW	022, 034	02/07/14	*			
37	27 th and Eye Streets, NW	022	02/12/14	*			
38	29 th and K Streets, NW	024	02/04/14	*			
38a	30 th Street, south of K Street, NW	024	02/04/14	*			
39a	30 th and K Streets, NW	024	02/19/14	*			
39b	30 th and K Streets, NW	024	02/19/14	*			
41b	31 st and K Streets, NW	025	02/19/14	*			
41c	31 st and K Streets, NW	025	02/19/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
42	Wisconsin Ave and K Street, NW	026	02/19/14	*			
43	Potomac and Water Streets, NW	027	02/19/14	*			
43a	Potomac and Water Streets, NW	027	02/19/14	*			
44	Water Street, west of Potomac St, NW	027	02/19/14	*			
45	36 th and M Streets, NW	028	02/04/14	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	02/04/14	*			
47	38 th Street and Reservoir Road, NW	029	02/04/14	*			
47a	37 th and T Streets, NW	029	02/04/14	*			
47b	37 th and T Streets, NW	029	02/04/14	*			
47c	38 th and W Streets, NW	029	02/04/14	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	02/25/14	*			
51	N Street Extended, west of 25 th Street, NW	033	02/25/14	*			
52	22 nd Street between M and N Streets, NW	034	02/20/14	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	02/07/14	*			
53	22 nd and M Streets, NW	022, 034	02/25/14	*			
53a	22 nd and M Streets, NW	022, 034	02/25/14	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	02/25/14	*			
53c	L and 22 nd Streets, NW	022	02/25/14	*			
54	23 rd and O Streets, NW	034	02/07/14	*			
55	22 nd Street, south of Q Street, NW	035	02/07/14	*			
55a	22 nd Street, south of Q Street, NW	035	02/07/14	*			
56	23 rd and Massachusetts Ave, NW	036	02/07/14	*			
57	23 rd Street, south of Q Street, NW	036	02/07/14	*			
58 ¹	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	02/06/14	*			
60	Connecticut Ave, east of Rock Creek, NW	039	02/06/14	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	02/06/14	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	02/06/14	*			
63	Harvard Street and Rock Creek Parkway, NW	042	02/06/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
64	Adams Mill Road, south of Irving Street, NW	043	02/07/14	*			
65	Kenyon Street and Adams Mill Road, NW	044	02/07/14	*			
65a	Kenyon Street and Adams Mill Road, NW	044	02/07/14	*			
66	Adams Mill Road and Lamont Street, NW	045	02/07/14	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	02/06/14	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	02/06/14	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	02/06/14	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	02/04/14	*			
70i	5 th and Quackenbos Streets, NW	049	02/12/14	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	02/04/14	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	02/04/14	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	02/04/14	*			
73	O Street Extended and Rock Creek Parkway, NW	052	02/04/14	*			
74 ¹	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	02/25/14	*			
77 ¹	Normanstone Dr Extended, west of Rock Creek, NW	056	N/A				
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	N/A				
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	02/28/14	*			
84a	26 th and P Streets, NW	060	02/28/14	*			

1. Structure no longer functions as a combined sewer overflow regulator structure.

Regulator Structures March 2014

Structure		Associated NPDES	Date	С	ondition		
Number	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	03/27/14	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	03/27/14	*			
5	Poplar Point Pumping Station	004	03/20/14	*			
6	Chicago Street and Railroad Ave, SE	005	03/07/14	*			
7	W Street and Railroad Ave, SE	005	03/07/14	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	03/28/14	*			
11	"O" Street Pumping Station	011(a)	03/20/14	*			
12	Storm Pump Discharge at Main Pumping Station	011	03/20/14	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	03/19/14	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	03/19/14	*			
15	South Capitol and E Streets	010	03/20/14	*			
15a	Half and L Streets, SE	010	03/20/14	*			
15b	South Capitol and I Streets	010	03/12/14	*			
15c	South Capitol and I Streets	010	03/12/14	*			
16	North of Main Sewage Pumping Station	012	03/20/14	*			
17	4 th and N Streets, SE, Both Extended	013	03/12/14				Construction for Clean Rivers Project
17a	K Street between 6 th Street and 7 th Street, SE	013	03/20/14	*			
18	6 th and M Streets, SE	014	03/10/14	*			
19	9 th and M Streets, SE	015	03/11/14	*			
19a	9 th and M Streets, SE	015	03/11/14	*			
20	12 th and M Streets, SE	016	N/A				Construction for Clean Rivers Project
20a	12 th and M Streets, SE	016	03/26/14	*			

Structure		Associated NPDES	Date	C	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
21	14 th and M Streets, SE		N/A				Construction for
		017					Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	03/21/14	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	03/21/14	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	03/21/14	*			
22d	Kentucky Ave and Potomac Street, SE	018	03/21/14	*			
22e	14 th Street and Kentucky Ave, SE	018	03/18/14	*			
23	Independence Ave, 21 st Street, SE, Extended	019	03/18/14	*			
24a	East Capitol St, west of RFK stadium	019	03/06/14	*			
28	21 st and Constitution Ave, NW	020	03/06/14	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	03/21/14	*			
30	17 th and D Streets, NW	020	03/21/14	*			
31	15 th Street and Pennsylvania Ave, NW	020	03/21/14	*			
33	10 th and F Streets, NW	020	03/21/14	*			
34	23 rd Street, north of Constitution Ave, NW	020	03/11/14	*			
34a	23 rd Street near C Street, NW	020	03/18/14	*			
35	Northeast of Roosevelt Bridge, NW	021	03/20/14	*			
36	27 th and I Streets, NW	022	03/26/14	*			
36a	New Hampshire Ave and Eye Street, NW	022	03/26/14	*			
36b	19 th and L Streets, NW	022, 034	03/28/14	*			
36d	17 th and L Streets, NW	022, 034	03/28/14	*			
36g	18 th and M Streets, NW	022, 034	03/28/14	*			
36h	18 th and M Streets, NW	022, 034	03/28/14	*			
37	27 th and Eye Streets, NW	022	03/26/14	*			
38	29 th and K Streets, NW	024	03/21/14	*			
38a	30 th Street, south of K Street, NW	024	03/21/14	*			
39a	30 th and K Streets, NW	024	03/21/14	*			
39b	30 th and K Streets, NW	024	03/21/14	*			
41b	31 st and K Streets, NW	025	03/21/14	*			
41c	31 st and K Streets, NW	025	03/21/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
42	Wisconsin Ave and K Street, NW	026	03/21/14	*			
43	Potomac and Water Streets, NW	027	03/26/14	*			
43a	Potomac and Water Streets, NW	027	03/26/14	*			
44	Water Street, west of Potomac St, NW	027	03/26/14	*			
45	36 th and M Streets, NW	028	03/10/14	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	03/10/14	*			
47	38 th Street and Reservoir Road, NW	029	03/10/14	*			
47a	37 th and T Streets, NW	029	03/10/14	*			
47b	37 th and T Streets, NW	029	03/10/14	*			
47c	38 th and W Streets, NW	029	03/10/14	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	03/19/14	*			
51	N Street Extended, west of 25 th Street, NW	033	03/19/14	*			
52	22 nd Street between M and N Streets, NW	034	03/26/14	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	03/26/14	*			
53	22 nd and M Streets, NW	022, 034	03/26/14	*			
53a	22 nd and M Streets, NW	022, 034	03/26/14	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	03/26/14	*			
53c	L and 22 nd Streets, NW	022	03/26/14	*			
54	23 rd and O Streets, NW	034	03/28/14	*			
55	22 nd Street, south of Q Street, NW	035	03/28/14	*			
55a	22 nd Street, south of Q Street, NW	035	03/28/14	*			
56	23 rd and Massachusetts Ave, NW	036	03/28/14	*			
57	23 rd Street, south of Q Street, NW	036	03/28/14	*			
58 ¹	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	03/27/14	*			
60	Connecticut Ave, east of Rock Creek, NW	039	03/10/14	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	03/10/14	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	03/07/14	*			
63	Harvard Street and Rock Creek Parkway, NW	042	03/07/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
64	Adams Mill Road, south of Irving Street, NW	043	03/07/14	*			
65	Kenyon Street and Adams Mill Road, NW	044	03/07/14	*			
65a	Kenyon Street and Adams Mill Road, NW	044	03/07/14	*			
66	Adams Mill Road and Lamont Street, NW	045	03/07/14	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	03/07/14	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	03/07/14	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	03/07/14	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	03/07/14	*			
70i	5 th and Quackenbos Streets, NW	049	03/10/14	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	03/10/14	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	03/27/14	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	03/27/14	*			
73	O Street Extended and Rock Creek Parkway, NW	052	03/27/14	*			
74 ¹	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	03/27/14	*			
77 ¹	Normanstone Dr Extended, west of Rock Creek, NW	056	N/A				
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	N/A				
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	03/27/14	*			
84a	26 th and P Streets, NW	060	03/27/14	*			

1. Structure no longer functions as a combined sewer overflow regulator structure.

Regulator Structures April 2014

Structure		Associated NPDES	Date	С	ondition		
Number	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	04/18/14	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	04/18/14	*			
5	Poplar Point Pumping Station	004	04/28/14	*			
6	Chicago Street and Railroad Ave, SE	005	04/08/14	*			
7	W Street and Railroad Ave, SE	005	04/08/14	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	04/08/14	*			
11	"O" Street Pumping Station	011(a)	04/25/14	*			
12	Storm Pump Discharge at Main Pumping Station	011	04/25/14	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	04/04/14	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	04/28/14	*			
15	South Capitol and E Streets	010	04/28/14	*			
15a	Half and L Streets, SE	010	04/28/14	*			
15b	South Capitol and I Streets	010	04/09/14	*			
15c	South Capitol and I Streets	010	04/09/14	*			
16	North of Main Sewage Pumping Station	012	04/28/14	*			
17	4 th and N Streets, SE, Both Extended		N/A				Construction for
		013					Clean Rivers Project
17a	K Street between 6 th Street and 7 th Street, SE	013	04/09/14	*			
18	6 th and M Streets, SE	014	04/02/14	*			
19	9 th and M Streets, SE	015	04/14/14	*			
19a	9 th and M Streets, SE	015	04/14/14	*			
20	12 th and M Streets, SE		N/A				Construction for
		016					Clean Rivers Project
20a	12 th and M Streets, SE	016	04/16/14	*			
21	14 th and M Streets, SE	017	N/A				Construction for

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
							Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	04/02/14	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	04/02/14	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	04/02/14	*			
22d	Kentucky Ave and Potomac Street, SE	018	04/04/14	*			
22e	14 th Street and Kentucky Ave, SE	018	04/04/14	*			
23	Independence Ave, 21 st Street, SE, Extended	019	04/04/14	*			
24a	East Capitol St, west of RFK stadium	019	04/04/14	*			
28	21 st and Constitution Ave, NW	020	04/11/14	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	04/11/14	*			
30	17 th and D Streets, NW	020	04/11/14	*			
31	15 th Street and Pennsylvania Ave, NW	020	04/11/14	*			
33	10 th and F Streets, NW	020	04/11/14	*			
34	23 rd Street, north of Constitution Ave, NW	020	04/28/14	*			
34a	23 rd Street near C Street, NW	020	04/11/14	*			
35	Northeast of Roosevelt Bridge, NW	021	04/28/14	*			
36	27 th and I Streets, NW	022	04/16/14	*			
36a	New Hampshire Ave and Eye Street, NW	022	04/16/14	*			
36b	19 th and L Streets, NW	022, 034	04/29/14	*			
36d	17 th and L Streets, NW	022, 034	04/29/14	*			
36g	18 th and M Streets, NW	022, 034	04/29/14	*			
36h	18 th and M Streets, NW	022, 034	04/29/14	*			
37	27 th and Eye Streets, NW	022	04/16/14	*			
38	29 th and K Streets, NW	024	04/02/14	*			
38a	30 th Street, south of K Street, NW	024	04/02/14	*			
39a	30 th and K Streets, NW	024	04/02/14	*			
39b	30 th and K Streets, NW	024	04/02/14	*			
41b	31 st and K Streets, NW	025	04/02/14	*			
41c	31 st and K Streets, NW	025	04/02/14	*			
42	Wisconsin Ave and K Street, NW	026	04/14/14	*			
43	Potomac and Water Streets, NW	027	04/14/14	*			
43a	Potomac and Water Streets, NW	027	04/14/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
44	Water Street, west of Potomac St, NW	027	04/14/14	*			
45	36 th and M Streets, NW	028	04/04/14	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	04/04/14	*			
47	38 th Street and Reservoir Road, NW	029	04/04/14	*			
47a	37 th and T Streets, NW	029	04/04/14	*			
47b	37 th and T Streets, NW	029	04/04/14	*			
47c	38 th and W Streets, NW	029	04/04/14	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	04/03/14	*			
51	N Street Extended, west of 25 th Street, NW	033	04/03/14	*			
52	22 nd Street between M and N Streets, NW	034	04/28/14	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	04/14/14	*			
53	22 nd and M Streets, NW	022, 034	04/14/14	*			
53a	22 nd and M Streets, NW	022, 034	04/14/14	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	04/18/14	*			
53c	L and 22 nd Streets, NW	022	04/18/14	*			
54	23 rd and O Streets, NW	034	04/16/14	*			
55	22 nd Street, south of Q Street, NW	035	04/16/14	*			
55a	22 nd Street, south of Q Street, NW	035	04/16/14	*			
56	23 rd and Massachusetts Ave, NW	036	04/16/14	*			
57	23 rd Street, south of Q Street, NW	036	04/16/14	*			
58 ¹	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	04/14/14	*			
60	Connecticut Ave, east of Rock Creek, NW	039	04/02/14	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	04/02/14	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	04/28/14	*			
63	Harvard Street and Rock Creek Parkway, NW	042	04/28/14	*			
64	Adams Mill Road, south of Irving Street, NW	043	04/28/14	*			
65	Kenyon Street and Adams Mill Road, NW	044	04/28/14	*			
65a	Kenyon Street and Adams Mill Road, NW	044	04/28/14	*			
66	Adams Mill Road and Lamont Street, NW	045	04/28/14	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	04/28/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	04/28/14	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	04/28/14	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	04/28/14	*			
70i	5 th and Quackenbos Streets, NW	049	04/02/14	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	04/18/14	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	04/16/14	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	04/16/14	*			
73	O Street Extended and Rock Creek Parkway, NW	052	04/16/14	*			
74 ¹	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	04/03/14	*			
77^{1}	Normanstone Dr Extended, west of Rock Creek, NW	056	N/A				
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	N/A				
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	04/25/14	*			
84a	26 th and P Streets, NW	060	04/25/14	*			

- 1. Structure no longer functions as a combined sewer overflow regulator structure.
- 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.

Regulator Structures May 2014

Structure		Associated NPDES	Date	С	ondition		
Number	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	05/20/14	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	05/20/14	*			
5	Poplar Point Pumping Station	004	05/12/14	*			
6	Chicago Street and Railroad Ave, SE	005	05/12/14	*			
7	W Street and Railroad Ave, SE	005	05/12/14	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	05/09/14	*			
11	"O" Street Pumping Station	011(a)	05/26/14	*			
12	Storm Pump Discharge at Main Pumping Station	011	05/26/14	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	05/12/14	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	05/12/14	*			
15	South Capitol and E Streets	010	05/26/14	*			
15a	Half and L Streets, SE	010	05/26/14	*			
15b	South Capitol and I Streets	010	05/21/14	*			
15c	South Capitol and I Streets	010	05/21/14	*			
16	North of Main Sewage Pumping Station	012	05/26/14	*			
17	4 th and N Streets, SE, Both Extended	013	N/A				Construction for Clean Rivers Project
17a	K Street between 6 th Street and 7 th Street, SE	013	05/21/14	*			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
18	6 th and M Streets, SE	014	05/19/14	*			
19	9 th and M Streets, SE	015	05/14/14	*			
19a	9 th and M Streets, SE	015	05/14/14	*			
20	12 th and M Streets, SE	016	N/A				Construction for Clean Rivers Project
20a	12 th and M Streets, SE	016	05/14/14	*			
21	14 th and M Streets, SE	017	N/A				Construction for

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
							Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	05/08/14	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	05/08/14	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	05/08/14	*			
22d	Kentucky Ave and Potomac Street, SE	018	05/08/14	*			
22e	14 th Street and Kentucky Ave, SE	018	05/08/14	*			
23	Independence Ave, 21 st Street, SE, Extended	019	05/21/14	*			
24a	East Capitol St, west of RFK stadium	019	05/12/14	*			
28	21 st and Constitution Ave, NW	020	05/13/14	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	05/13/14	*			
30	17 th and D Streets, NW	020	05/09/14	*			
31	15 th Street and Pennsylvania Ave, NW	020	05/09/14	*			
33	10 th and F Streets, NW	020	05/09/14	*			
34	23 rd Street, north of Constitution Ave, NW	020	05/26/14	*			
34a	23 rd Street near C Street, NW	020	05/13/14	*			
35	Northeast of Roosevelt Bridge, NW	021	05/19/14	*			
36	27 th and I Streets, NW	022	05/13/14	*			
36a	New Hampshire Ave and Eye Street, NW	022	05/13/14	*			
36b	19 th and L Streets, NW	022, 034	05/09/14	*			
36d	17 th and L Streets, NW	022, 034	05/09/14	*			
36g	18 th and M Streets, NW	022, 034	05/09/14	*			
36h	18 th and M Streets, NW	022, 034	05/09/14	*			
37	27 th and Eye Streets, NW	022	05/13/14	*			
38	29 th and K Streets, NW	024	05/12/14	*			
38a	30 th Street, south of K Street, NW	024	05/12/14	*			
39a	30 th and K Streets, NW	024	05/12/14	*			
39b	30 th and K Streets, NW	024	05/12/14	*			
41b	31 st and K Streets, NW	025	05/30/14	*			
41c	31 st and K Streets, NW	025	05/30/14	*			
42	Wisconsin Ave and K Street, NW	026	05/13/14	*			
43	Potomac and Water Streets, NW	027	05/13/14	*			
43a	Potomac and Water Streets, NW	027	05/13/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
44	Water Street, west of Potomac St, NW	027	05/13/14	*			
45	36 th and M Streets, NW	028	05/09/14	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	05/09/14	*			
47	38 th Street and Reservoir Road, NW	029	05/09/14	*			
47a	37 th and T Streets, NW	029	05/09/14	*			
47b	37 th and T Streets, NW	029	05/09/14	*			
47c	38 th and W Streets, NW	029	05/09/14	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	05/13/14	*			
51	N Street Extended, west of 25 th Street, NW	033	05/30/14	*			
52	22 nd Street between M and N Streets, NW	034	05/30/14	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	05/30/14	*			
53	22 nd and M Streets, NW	022, 034	05/30/14	*			
53a	22 nd and M Streets, NW	022, 034	05/30/14	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	05/13/14	*			
53c	L and 22 nd Streets, NW	022	05/13/14	*			
54	23 rd and O Streets, NW	034	05/23/14	*			
55	22 nd Street, south of Q Street, NW	035	05/23/14	*			
55a	22 nd Street, south of Q Street, NW	035	05/23/14	*			
56	23 rd and Massachusetts Ave, NW	036	05/23/14	*			
57	23 rd Street, south of Q Street, NW	036	05/23/14	*			
58 ¹	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	05/12/14	*			
60	Connecticut Ave, east of Rock Creek, NW	039	05/12/14	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	05/12/14	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	05/14/14	*			
63	Harvard Street and Rock Creek Parkway, NW	042	05/14/14	*			
64	Adams Mill Road, south of Irving Street, NW	043	05/14/14	*			
65	Kenyon Street and Adams Mill Road, NW	044	05/14/14	*			
65a	Kenyon Street and Adams Mill Road, NW	044	05/14/14	*			
66	Adams Mill Road and Lamont Street, NW	045	05/14/14	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	05/14/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	05/14/14	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	05/14/14	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	05/14/14	*			
70i	5 th and Quackenbos Streets, NW	049	05/23/14	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	05/14/14	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	05/21/14	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	05/21/14	*			
73	O Street Extended and Rock Creek Parkway, NW	052	05/12/14	*			
74 ¹	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	05/30/14	*			
77^{1}	Normanstone Dr Extended, west of Rock Creek, NW	056	N/A				
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	N/A				
78^{1}	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	05/21/14	*			
84a	26 th and P Streets, NW	060	05/12/14	*			

- 1. Structure no longer functions as a combined sewer overflow regulator structure.
- 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.

Regulator Structures June 2014

Structure		Associated NPDES	Date	С	ondition		
Number	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	06/20/14	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	06/20/14	*			
5	Poplar Point Pumping Station	004	06/03/14	*			
6	Chicago Street and Railroad Ave, SE	005	06/02/14	*			
7	W Street and Railroad Ave, SE	005	06/02/14	*			
8^1	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	06/02/14	*			
11	"O" Street Pumping Station	011(a)	06/02/14	*			
12	Storm Pump Discharge at Main Pumping Station	011	06/02/14	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	06/02/14	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	06/02/14	*			
15	South Capitol and E Streets	010	06/02/14	*			
15a	Half and L Streets, SE	010	06/02/14	*			
15b	South Capitol and I Streets	010	06/18/14	*			
15c	South Capitol and I Streets	010	06/18/14	*			
16	North of Main Sewage Pumping Station	012	06/13/14	*			
17	4 th and N Streets, SE, Both Extended	013	N/A				Construction for Clean Rivers Project
17a	K Street between 6 th Street and 7 th Street, SE	013	06/20/14	*			
18	6 th and M Streets, SE	014	06/11/14	*			
19	9 th and M Streets, SE	015	06/04/14	*			
19a	9 th and M Streets, SE	015	06/04/14	*			
20	12 th and M Streets, SE	016	N/A				Construction for Clean Rivers Project
20a	12 th and M Streets, SE	016	05/04/14	*			
21	14 th and M Streets, SE	017	N/A				Construction for

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
							Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	06/14/14	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	06/14/14	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	06/14/14	*			
22d	Kentucky Ave and Potomac Street, SE	018	06/10/14	*			
22e	14 th Street and Kentucky Ave, SE	018	06/10/14	*			
23	Independence Ave, 21 st Street, SE, Extended	019	06/14/14	*			
24a	East Capitol St, west of RFK stadium	019	06/04/14	*			
28	21 st and Constitution Ave, NW	020	06/02/14	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	06/02/14	*			
30	17 th and D Streets, NW	020	06/02/14	*			
31	15 th Street and Pennsylvania Ave, NW	020	06/02/14	*			
33	10 th and F Streets, NW	020	06/02/14	*			
34	23 rd Street, north of Constitution Ave, NW	020	06/02/14	*			
34a	23 rd Street near C Street, NW	020	06/16/14	*			
35	Northeast of Roosevelt Bridge, NW	021	06/16/14	*			
36	27 th and I Streets, NW	022	06/18/14	*			
36a	New Hampshire Ave and Eye Street, NW	022	06/18/14	*			
36b	19 th and L Streets, NW	022, 034	06/18/14	*			
36d	17 th and L Streets, NW	022, 034	06/18/14	*			
36g	18 th and M Streets, NW	022, 034	06/16/14	*			
36h	18 th and M Streets, NW	022, 034	06/13/14	*			
37	27 th and Eye Streets, NW	022	06/13/14	*			
38	29 th and K Streets, NW	024	06/13/14	*			
38a	30 th Street, south of K Street, NW	024	06/13/14	*			
39a	30 th and K Streets, NW	024	06/13/14	*			
39b	30 th and K Streets, NW	024	06/13/14	*			
41b	31 st and K Streets, NW	025	06/13/14	*			
41c	31 st and K Streets, NW	025	06/13/14	*			
42	Wisconsin Ave and K Street, NW	026	06/13/14	*			
43	Potomac and Water Streets, NW	027	06/13/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
43a	Potomac and Water Streets, NW	027	06/13/14	*			
44	Water Street, west of Potomac St, NW	027	06/13/14	*			
45	36 th and M Streets, NW	028	06/10/14	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	06/10/14	*			
47	38 th Street and Reservoir Road, NW	029	06/10/14	*			
47a	37 th and T Streets, NW	029	06/10/14	*			
47b	37 th and T Streets, NW	029	06/10/14	*			
47c	38 th and W Streets, NW	029	06/10/14	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	06/17/14	*			
51	N Street Extended, west of 25 th Street, NW	033	06/17/14	*			
52	22 nd Street between M and N Streets, NW	034	06/04/14	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	06/04/14	*			
53	22 nd and M Streets, NW	022, 034	06/19/14	*			
53a	22 nd and M Streets, NW	022, 034	06/19/14	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	06/19/14	*			
53c	L and 22 nd Streets, NW	022	06/19/14	*			
54	23 rd and O Streets, NW	034	06/18/14	*			
55	22 nd Street, south of Q Street, NW	035	06/18/14	*			
55a	22 nd Street, south of Q Street, NW	035	06/18/14	*			
56	23 rd and Massachusetts Ave, NW	036	06/18/14	*			
57	23 rd Street, south of Q Street, NW	036	06/18/14	*			
58 ¹	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	06/19/14	*			
60	Connecticut Ave, east of Rock Creek, NW	039	06/05/14	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	06/05/14	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	06/11/14	*			
63	Harvard Street and Rock Creek Parkway, NW	042	06/11/14	*			
64	Adams Mill Road, south of Irving Street, NW	043	06/11/14	*			
65	Kenyon Street and Adams Mill Road, NW	044	06/11/14	*			
65a	Kenyon Street and Adams Mill Road, NW	044	06/11/14	*			
66	Adams Mill Road and Lamont Street, NW	045	06/11/14	*			

Structure		Associated NPDES	Date	C	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
67	Park Rd , south of Piney Branch Pkwy, NW	046	06/11/14	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	06/11/14	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	06/11/14	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	06/11/14	*			
70i	5 th and Quackenbos Streets, NW	049	06/09/14	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	06/09/14	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	06/18/14	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	06/18/14	*			
73	O Street Extended and Rock Creek Parkway, NW	052	06/18/14	*			
74 ¹	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	06/18/14	*			
77^{1}	Normanstone Dr Extended, west of Rock Creek, NW	056	N/A				
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	N/A				
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	06/18/14	*			
84a	26 th and P Streets, NW	060	06/18/14	*			

1. Structure no longer functions as a combined sewer overflow regulator structure.

Regulator Structures July 2014

Structure		Associated NPDES	Date	С	ondition		
Number	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	07/14/14	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	07/14/14	*			
5	Poplar Point Pumping Station	004	07/07/14	*			
6	Chicago Street and Railroad Ave, SE	005	07/07/14	*			
7	W Street and Railroad Ave, SE	005	07/07/14	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	07/07/14	*			
11	"O" Street Pumping Station	011(a)	07/31/14	*			
12	Storm Pump Discharge at Main Pumping Station	011	07/31/14	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	07/08/14	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	07/08/14	*			
15	South Capitol and E Streets	010	07/31/14	*			
15a	Half and L Streets, SE	010	07/31/14	*			
15b	South Capitol and I Streets	010	07/18/14	*			
15c	South Capitol and I Streets	010	07/18/14	*			
16	North of Main Sewage Pumping Station	012	07/31/14	*			
17	4 th and N Streets, SE, Both Extended	013	N/A				Construction for Clean Rivers Project
17a	K Street between 6 th Street and 7 th Street, SE	013	07/31/14	*			
18	6 th and M Streets, SE	014	07/08/14	*			
19	9 th and M Streets, SE	015	N/A				Construction for Clean Rivers Project
19a	9 th and M Streets, SE	015	N/A				Construction for Clean Rivers Project
20	12 th and M Streets, SE	016	N/A				Construction for Clean Rivers Project

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
20a	12 th and M Streets, SE	016	07/24/14	*			
21	14 th and M Streets, SE	017	N/A				Construction for Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	07/07/14	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	07/07/14	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	07/07/14	*			
22d	Kentucky Ave and Potomac Street, SE	018	07/07/14	*			
22e	14 th Street and Kentucky Ave, SE	018	07/07/14	*			
23	Independence Ave, 21 st Street, SE, Extended	019	07/16/14	*			
24a	East Capitol St, west of RFK stadium	019	07/16/14	*			
28	21 st and Constitution Ave, NW	020	07/08/14	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	07/08/14	*			
30	17 th and D Streets, NW	020	07/07/14	*			
31	15 th Street and Pennsylvania Ave, NW	020	07/31/14	*			
33	10 th and F Streets, NW	020	07/08/14	*			
34	23 rd Street, north of Constitution Ave, NW	020	07/31/14	*			
34a	23 rd Street near C Street, NW	020	07/08/14	*			
35	Northeast of Roosevelt Bridge, NW	021	07/08/14	*			
36	27 th and I Streets, NW	022	07/08/14	*			
36a	New Hampshire Ave and Eye Street, NW	022	07/07/14	*			
36b	19 th and L Streets, NW	022, 034	07/07/14	*			
36d	17 th and L Streets, NW	022, 034	07/07/14	*			
36g	18 th and M Streets, NW	022, 034	07/07/14	*			
36h	18 th and M Streets, NW	022, 034	07/07/14	*			
37	27 th and Eye Streets, NW	022	07/08/14	*			
38	29 th and K Streets, NW	024	07/01/14	*			
38a	30 th Street, south of K Street, NW	024	07/01/14	*			
39a	30 th and K Streets, NW	024	07/01/14	*			
39b	30 th and K Streets, NW	024	07/01/14	*			
41b	31 st and K Streets, NW	025	07/01/14	*			
41c	31 st and K Streets, NW	025	07/01/14	*			
42	Wisconsin Ave and K Street, NW	026	07/01/14	*			
Structure		Associated NPDES	Date	С	ondition		
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Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
43	Potomac and Water Streets, NW	027	07/03/14	*			
43a	Potomac and Water Streets, NW	027	07/03/14	*			
44	Water Street, west of Potomac St, NW	027	07/03/14	*			
45	36 th and M Streets, NW	028	07/03/14	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	07/03/14	*			
47	38 th Street and Reservoir Road, NW	029	07/03/14	*			
47a	37 th and T Streets, NW	029	07/03/14	*			
47b	37 th and T Streets, NW	029	07/03/14	*			
47c	38 th and W Streets, NW	029	07/03/14	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	07/14/14	*			
51	N Street Extended, west of 25 th Street, NW	033	07/14/14	*			
52	22 nd Street between M and N Streets, NW	034	07/31/14	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	07/31/14	*			
53	22 nd and M Streets, NW	022, 034	07/31/14	*			
53a	22 nd and M Streets, NW	022, 034	07/31/14	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	07/14/14	*			
53c	L and 22 nd Streets, NW	022	07/14/14	*			
54	23 rd and O Streets, NW	034	07/11/14	*			
55	22 nd Street, south of Q Street, NW	035	07/11/14	*			
55a	22 nd Street, south of Q Street, NW	035	07/11/14	*			
56	23 rd and Massachusetts Ave, NW	036	07/11/14	*			
57	23 rd Street, south of Q Street, NW	036	07/11/14	*			
58 ¹	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	07/07/14	*			
60	Connecticut Ave, east of Rock Creek, NW	039	07/07/14	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	07/07/14	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	07/18/14	*			
63	Harvard Street and Rock Creek Parkway, NW	042	07/18/14	*			
64	Adams Mill Road, south of Irving Street, NW	043	07/18/14	*			
65	Kenyon Street and Adams Mill Road, NW	044	07/18/14	*			
65a	Kenyon Street and Adams Mill Road, NW	044	07/18/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
66	Adams Mill Road and Lamont Street, NW	045	07/18/14	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	07/18/14	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	07/18/14	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	07/18/14	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	07/18/14	*			
70i	5 th and Quackenbos Streets, NW	049	07/08/14	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	07/16/14	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	07/11/14	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	07/11/14	*			
73	O Street Extended and Rock Creek Parkway, NW	052	07/11/14	*			
74 ¹	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	07/24/14	*			
77 ¹	Normanstone Dr Extended, west of Rock Creek, NW	056	N/A				
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	N/A				
78^{1}	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	07/11/14	*			
84a	26 th and P Streets, NW	060	07/11/14	*			

1. Structure no longer functions as a combined sewer overflow regulator structure.

Regulator Structures August 2014

Structure		Associated NPDES	Date	С	ondition		
Number	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	08/21/14	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	08/21/14	*			
5	Poplar Point Pumping Station	004	08/05/14	*			
6	Chicago Street and Railroad Ave, SE	005	08/20/14	*			
7	W Street and Railroad Ave, SE	005	08/20/14	*			
8^{1}	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	08/20/14	*			
11	"O" Street Pumping Station	011(a)	08/05/14	*			
12	Storm Pump Discharge at Main Pumping Station	011	08/05/14	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	08/25/14	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	08/05/14	*			
15	South Capitol and E Streets	010	08/05/14	*			
15a	Half and L Streets, SE	010	08/05/14	*			
15b	South Capitol and I Streets	010	08/05/14	*			
15c	South Capitol and I Streets	010	08/25/14	*			
16	North of Main Sewage Pumping Station	012	08/25/14	*			
17	4 th and N Streets, SE, Both Extended	013	N/A				Construction for Clean Rivers Project
17a	K Street between 6 th Street and 7 th Street, SE	013	08/01/14	*			-
18	6 th and M Streets, SE	014	08/19/14	*			
19	9 th and M Streets, SE	015	N/A				Construction for
19a	9 th and M Streets, SE	015	N/A				Construction for Clean Rivers Project
20	12 th and M Streets, SE	016	N/A				Construction for Clean Rivers Project

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
20a	12 th and M Streets, SE	016	08/01/14	*			
21	14 th and M Streets, SE	017	N/A				Construction for Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	08/26/14	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	08/26/14	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	08/26/14	*			
22d	Kentucky Ave and Potomac Street, SE	018	08/26/14	*			
22e	14 th Street and Kentucky Ave, SE	018	08/26/14	*			
23	Independence Ave, 21 st Street, SE, Extended	019	08/26/14	*			
24a	East Capitol St, west of RFK stadium	019	08/26/14	*			
28	21 st and Constitution Ave, NW	020	08/26/14	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	08/26/14	*			
30	17 th and D Streets, NW	020	08/20/14	*			
31	15 th Street and Pennsylvania Ave, NW	020	08/20/14	*			
33	10 th and F Streets, NW	020	08/20/14	*			
34	23 rd Street, north of Constitution Ave, NW	020	08/29/14	*			
34a	23 rd Street near C Street, NW	020	08/29/14	*			
35	Northeast of Roosevelt Bridge, NW	021	08/19/14	*			
36	27 th and I Streets, NW	022	08/29/14	*			
36a	New Hampshire Ave and Eye Street, NW	022	08/29/14	*			
36b	19 th and L Streets, NW	022, 034	08/29/14	*			
36d	17 th and L Streets, NW	022, 034	08/29/14	*			
36g	18 th and M Streets, NW	022, 034	08/29/14	*			
36h	18 th and M Streets, NW	022, 034	08/29/14	*			
37	27 th and Eye Streets, NW	022	08/29/14	*			
38	29 th and K Streets, NW	024	08/29/14	*			
38a	30 th Street, south of K Street, NW	024	08/19/14	*			
39a	30 th and K Streets, NW	024	08/19/14	*			
39b	30 th and K Streets, NW	024	08/19/14	*			
41b	31 st and K Streets, NW	025	08/19/14	*			
41c	31 st and K Streets, NW	025	08/19/14	*			
42	Wisconsin Ave and K Street, NW	026	08/19/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
43	Potomac and Water Streets, NW	027	08/19/14	*			
43a	Potomac and Water Streets, NW	027	08/19/14	*			
44	Water Street, west of Potomac St, NW	027	08/19/14	*			
45	36 th and M Streets, NW	028	08/01/14	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	08/01/14	*			
47	38 th Street and Reservoir Road, NW	029	08/01/14	*			
47a	37 th and T Streets, NW	029	08/01/14	*			
47b	37 th and T Streets, NW	029	08/01/14	*			
47c	38 th and W Streets, NW	029	08/01/14	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	08/15/14	*			
51	N Street Extended, west of 25 th Street, NW	033	08/15/14	*			
52	22 nd Street between M and N Streets, NW	034	08/01/14	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	08/25/14	*			
53	22 nd and M Streets, NW	022, 034	08/25/14	*			
53a	22 nd and M Streets, NW	022, 034	08/26/14	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	08/25/14	*			
53c	L and 22 nd Streets, NW	022	08/26/14	*			
54	23 rd and O Streets, NW	034	08/26/14	*			
55	22 nd Street, south of Q Street, NW	035	08/26/14	*			
55a	22 nd Street, south of Q Street, NW	035	08/27/14	*			
56	23 rd and Massachusetts Ave, NW	036	08/27/14	*			
57	23 rd Street, south of Q Street, NW	036	08/271/4	*			
58 ¹	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	08/27/14	*			
60	Connecticut Ave, east of Rock Creek, NW	039	08/27/14	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	08/27/14	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	08/20/14	*			
63	Harvard Street and Rock Creek Parkway, NW	042	08/20/14	*			
64	Adams Mill Road, south of Irving Street, NW	043	08/20/14	*			
65	Kenyon Street and Adams Mill Road, NW	044	08/20/14	*			
65a	Kenyon Street and Adams Mill Road, NW	044	08/20/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
66	Adams Mill Road and Lamont Street, NW	045	08/20/14	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	08/20/14	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	08/20/14	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	08/20/14	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	08/20/14	*			
70i	5 th and Quackenbos Streets, NW	049	08/20/14	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	08/25/14	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	08/25/14	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	08/25/14	*			
73	O Street Extended and Rock Creek Parkway, NW	052	08/25/14	*			
74 ¹	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	08/26/14	*			
77^{1}	Normanstone Dr Extended, west of Rock Creek, NW	056	N/A				
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	N/A				
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	08/25/14	*			
84a	26 th and P Streets, NW	060	08/25/14	*			

1. Structure no longer functions as a combined sewer overflow regulator structure.

Regulator Structures September 2014

Structure		Associated NPDES	Date	С	ondition		
Number	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	09/03/14	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	09/03/14	*			
5	Poplar Point Pumping Station	004	09/03/14	*			
6	Chicago Street and Railroad Ave, SE	005	09/09/14	*			
7	W Street and Railroad Ave, SE	005	09/09/14	*			
8^1	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	09/03/14	*			
11	"O" Street Pumping Station	011(a)	09/03/14	*			
12	Storm Pump Discharge at Main Pumping Station	011	09/03/14	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	09/02/14	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	09/03/14	*			
15	South Capitol and E Streets	010	09/02/14	*			
15a	Half and L Streets, SE	010	09/02/14	*			
15b	South Capitol and I Streets	010	09/02/14	*			
15c	South Capitol and I Streets	010	09/02/14	*			
16	North of Main Sewage Pumping Station	012	09/03/14	*			
17	4 th and N Streets, SE, Both Extended	013	N/A				Construction for Clean Rivers Project
17a	K Street between 6 th Street and 7 th Street, SE	013	09/29/14	*			
18	6 th and M Streets, SE	014	09/02/14	*			
19	9 th and M Streets, SE	015	N/A				Construction for Clean Rivers Project
19a	9 th and M Streets, SE	015	N/A				Construction for Clean Rivers Project
20	12 th and M Streets, SE	016	N/A				Construction for Clean Rivers Project

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
20a	12 th and M Streets, SE	016	09/24/14	*			
21	14 th and M Streets, SE	017	N/A				Construction for Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	09/24/14	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	09/24/14	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	09/24/14	*			
22d	Kentucky Ave and Potomac Street, SE	018	09/24/14	*			
22e	14 th Street and Kentucky Ave, SE	018	09/24/14	*			
23	Independence Ave, 21 st Street, SE, Extended	019	09/24/14	*			
24a	East Capitol St, west of RFK stadium	019	09/24/14	*			
28	21 st and Constitution Ave, NW	020	09/17/14	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	09/17/14	*			
30	17 th and D Streets, NW	020	09/16/14	*			
31	15 th Street and Pennsylvania Ave, NW	020	09/16/14	*			
33	10 th and F Streets, NW	020	09/16/14	*			
34	23 rd Street, north of Constitution Ave, NW	020	09/16/14	*			
34a	23 rd Street near C Street, NW	020	09/17/14	*			
35	Northeast of Roosevelt Bridge, NW	021	09/30/14	*			
36	27 th and I Streets, NW	022	09/16/14	*			
36a	New Hampshire Ave and Eye Street, NW	022	09/16/14	*			
36b	19 th and L Streets, NW	022, 034	09/04/14	*			
36d	17 th and L Streets, NW	022, 034	09/04/14	*			
36g	18 th and M Streets, NW	022, 034	09/04/14	*			
36h	18 th and M Streets, NW	022, 034	09/04/14	*			
37	27 th and Eye Streets, NW	022	09/16/14	*			
38	29 th and K Streets, NW	024	09/15/14	*			
38a	30 th Street, south of K Street, NW	024	09/15/14	*			
39a	30 th and K Streets, NW	024	09/15/14	*			
39b	30 th and K Streets, NW	024	09/15/14	*			
41b	31 st and K Streets, NW	025	09/15/14	*			
41c	31 st and K Streets, NW	025	09/15/14	*			
42	Wisconsin Ave and K Street, NW	026	09/15/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
43	Potomac and Water Streets, NW	027	09/15/14	*			
43a	Potomac and Water Streets, NW	027	09/15/14	*			
44	Water Street, west of Potomac St, NW	027	09/15/14	*			
45	36 th and M Streets, NW	028	09/29/14	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	09/04/14	*			
47	38 th Street and Reservoir Road, NW	029	09/04/14	*			
47a	37 th and T Streets, NW	029	09/04/14	*			
47b	37 th and T Streets, NW	029	09/04/14	*			
47c	38 th and W Streets, NW	029	09/04/14	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	09/16/14	*			
51	N Street Extended, west of 25 th Street, NW	033	09/16/14	*			
52	22 nd Street between M and N Streets, NW	034	09/30/14	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	09/30/14	*			
53	22 nd and M Streets, NW	022, 034	09/30/14	*			
53a	22 nd and M Streets, NW	022, 034	09/30/14	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	09/09/14	*			
53c	L and 22 nd Streets, NW	022	09/09/14	*			
54	23 rd and O Streets, NW	034	09/22/14	*			
55	22 nd Street, south of Q Street, NW	035	09/22/14	*			
55a	22 nd Street, south of Q Street, NW	035	09/22/14	*			
56	23 rd and Massachusetts Ave, NW	036	09/22/14	*			
57	23 rd Street, south of Q Street, NW	036	09/22/14	*			
58 ¹	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	09/24/14	*			
60	Connecticut Ave, east of Rock Creek, NW	039	09/15/14	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	09/15/14	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	09/17/14	*			
63	Harvard Street and Rock Creek Parkway, NW	042	09/17/14	*			
64	Adams Mill Road, south of Irving Street, NW	043	09/17/14	*			
65	Kenyon Street and Adams Mill Road, NW	044	09/17/14	*			
65a	Kenyon Street and Adams Mill Road, NW	044	09/17/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
66	Adams Mill Road and Lamont Street, NW	045	09/17/14	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	09/17/14	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	09/17/14	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	09/17/14	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	09/17/14	*			
70i	5 th and Quackenbos Streets, NW	049	09/09/14	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	09/0914	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	09/22/14	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	09/22/14	*			
73	O Street Extended and Rock Creek Parkway, NW	052	09/22/14	*			
74 ¹	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	09/28/14	*			
77^{1}	Normanstone Dr Extended, west of Rock Creek, NW	056	N/A				
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	N/A				
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	09/22/14	*			
84a	26 th and P Streets, NW	060	09/22/14	*			

1. Structure no longer functions as a combined sewer overflow regulator structure.

Regulator Structures October 2014

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	10/07/14	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	10/07/14	*			
5	Poplar Point Pumping Station	004	10/03/14	*			
6	Chicago Street and Railroad Ave, SE	005	10/03/14	*			
7	W Street and Railroad Ave, SE	005	10/03/14	*			
8 ¹	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	10/03/14	*			
11	"O" Street Pumping Station	011(a)	10/31/14	*			
12	Storm Pump Discharge at Main Pumping Station	011	10/31/14	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	10/07/14	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	10/07/14	*			
15	South Capitol and E Streets	010	10/31/14	*			
15a	Half and L Streets, SE	010	10/31/14	*			
15b	South Capitol and I Streets	010	10/20/14	*			
15c	South Capitol and I Streets	010	10/20/14	*			
16	North of Main Sewage Pumping Station	012	10/20/14	*			
17	4 th and N Streets, SE, Both Extended	013	N/A				Construction for Clean Rivers Project
17a	K Street between 6 th Street and 7 th Street, SE	013	10/20/14	*			
18	6 th and M Streets, SE	014	10/01/14	*			
19	9 th and M Streets, SE	015	N/A				Construction for Clean Rivers Project
19a	9 th and M Streets, SE	015	N/A				Construction for Clean Rivers Project
20	12 th and M Streets, SE	016	N/A				Construction for Clean Rivers Project

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
20a	12 th and M Streets, SE	016	10/14/14	*			
21	14 th and M Streets, SE	017	N/A				Construction for Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	10/06/14	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	10/06/14	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	10/06/14	*			
22d	Kentucky Ave and Potomac Street, SE	018	10/06/14	*			
22e	14 th Street and Kentucky Ave, SE	018	10/06/14	*			
23	Independence Ave, 21 st Street, SE, Extended	019	10/14/14	*			
24a	East Capitol St, west of RFK stadium	019	10/14/14	*			
28	21 st and Constitution Ave, NW	020	10/01/14	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	10/01/14	*			
30	17 th and D Streets, NW	020	10/01/14	*			
31	15 th Street and Pennsylvania Ave, NW	020	10/01/14	*			
33	10 th and F Streets, NW	020	10/01/14	*			
34	23 rd Street, north of Constitution Ave, NW	020	10/31/14	*			
34a	23 rd Street near C Street, NW	020	10/01/14	*			
35	Northeast of Roosevelt Bridge, NW	021	10/31/14	*			
36	27 th and I Streets, NW	022	10/03/14	*			
36a	New Hampshire Ave and Eye Street, NW	022	10/03/14	*			
36b	19 th and L Streets, NW	022, 034	10/14/14	*			
36d	17 th and L Streets, NW	022, 034	10/14/14	*			
36g	18 th and M Streets, NW	022, 034	10/14/14	*			
36h	18 th and M Streets, NW	022, 034	10/14/14	*			
37	27 th and Eye Streets, NW	022	10/03/14	*			
38	29 th and K Streets, NW	024	10/03/14	*			
38a	30 th Street, south of K Street, NW	024	10/03/14	*			
39a	30 th and K Streets, NW	024	10/03/14	*			
39b	30 th and K Streets, NW	024	10/03/14	*			
41b	31 st and K Streets, NW	025	10/14/14	*			
41c	31 st and K Streets, NW	025	10/14/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
42	Wisconsin Ave and K Street, NW	026	10/14/14	*			
43	Potomac and Water Streets, NW	027	10/14/14	*			
43a	Potomac and Water Streets, NW	027	10/14/14	*			
44	Water Street, west of Potomac St, NW	027	10/14/14	*			
45	36 th and M Streets, NW	028	10/01/14	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	10/01/14	*			
47	38 th Street and Reservoir Road, NW	029	10/01/14	*			
47a	37 th and T Streets, NW	029	10/01/14	*			
47b	37 th and T Streets, NW	029	10/01/14	*			
47c	38 th and W Streets, NW	029	10/01/14	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	10/07/14	*			
51	N Street Extended, west of 25 th Street, NW	033	10/07/14	*			
52	22 nd Street between M and N Streets, NW	034	10/01/14	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	10/01/14	*			
53	22 nd and M Streets, NW	022, 034	10/01/14	*			
53a	22 nd and M Streets, NW	022, 034	10/01/14	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	10/03/14	*			
53c	L and 22 nd Streets, NW	022	10/03/14	*			
54	23 rd and O Streets, NW	034	10/06/14	*			
55	22 nd Street, south of Q Street, NW	035	10/06/14	*			
55a	22 nd Street, south of Q Street, NW	035	10/06/14	*			
56	23 rd and Massachusetts Ave, NW	036	10/06/14	*			
57	23 rd Street, south of Q Street, NW	036	10/06/14	*			
58 ¹	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	10/02/14	*			
60	Connecticut Ave, east of Rock Creek, NW	039	10/02/14	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	10/02/14	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	10/08/14	*			
63	Harvard Street and Rock Creek Parkway, NW	042	10/08/14	*			
64	Adams Mill Road, south of Irving Street, NW	043	10/08/14	*			

Structure		Associated NPDES	Date	Condition			
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
65	Kenyon Street and Adams Mill Road, NW	044	10/08/14	*			
65a	Kenyon Street and Adams Mill Road, NW	044	10/08/14	*			
66	Adams Mill Road and Lamont Street, NW	045	10/08/14	*			
67	Park Rd , south of Piney Branch Pkwy, NW	046	10/08/14	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	10/08/14	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	10/08/14	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	10/08/14	*			
70i	5 th and Quackenbos Streets, NW	049	10/02/14	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	10/02/14	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	10/06/14	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	10/06/14	*			
73	O Street Extended and Rock Creek Parkway, NW	052	10/06/14	*			
74^{1}	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	10/17/14	*			
77^{1}	Normanstone Dr Extended, west of Rock Creek, NW	056	N/A				
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	N/A				
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	10/06/14	*			
84a	26 th and P Streets, NW	060	10/06/14	*			

1. Structure no longer functions as a combined sewer overflow regulator structure.

Regulator Structures November 2014

Structure		Associated NPDES	Date	Condition			
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	11/21/14	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	11/21/14	*			
5	Poplar Point Pumping Station	004	11/04/14	*			
6	Chicago Street and Railroad Ave, SE	005	11/03/14	*			
7	W Street and Railroad Ave, SE	005	11/03/14	*			
8^1	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	11/03/14	*			
11	"O" Street Pumping Station	011(a)	11/04/14	*			
12	Storm Pump Discharge at Main Pumping Station	011	11/04/14	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	11/05/14	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	11/05/14	*			
15	South Capitol and E Streets	010	11/24/14	*			
15a	Half and L Streets, SE	010	11/24/14	*			
15b	South Capitol and I Streets	010	11/21/14	*			
15c	South Capitol and I Streets	010	11/21/14	*			
16	North of Main Sewage Pumping Station	012	11/04/14	*			
17	4 th and N Streets, SE, Both Extended	013	11/19/14	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	11/19/14	*			
18	6 th and M Streets, SE	014	11/21/14	*			
19	9 th and M Streets, SE	015	N/A				Construction for Clean Rivers Project
19a	9 th and M Streets, SE	015	N/A				Construction for Clean Rivers Project
20	12 th and M Streets, SE	016	N/A				Construction for Clean Rivers Project

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
20a	12 th and M Streets, SE	016	11/07/14	*			
21	14 th and M Streets, SE	017	N/A				Construction for Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	11/04/14	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	11/04/14	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	11/04/14	*			
22d	Kentucky Ave and Potomac Street, SE	018	11/04/14	*			
22e	14 th Street and Kentucky Ave, SE	018	11/04/14	*			
23	Independence Ave, 21 st Street, SE, Extended	019	11/19/14	*			
24a	East Capitol St, west of RFK stadium	019	11/19/14	*			
28	21 st and Constitution Ave, NW	020	11/12/14	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	11/12/14	*			
30	17 th and D Streets, NW	020	11/04/14	*			
31	15 th Street and Pennsylvania Ave, NW	020	11/04/14	*			
33	10 th and F Streets, NW	020	11/04/14	*			
34	23 rd Street, north of Constitution Ave, NW	020	11/04/14	*			
34a	23 rd Street near C Street, NW	020	11/12/14	*			
35	Northeast of Roosevelt Bridge, NW	021	11/12/14	*			
36	27 th and I Streets, NW	022	11/04/14	*			
36a	New Hampshire Ave and Eye Street, NW	022	11/13/14	*			
36b	19 th and L Streets, NW	022, 034	11/13/14	*			
36d	17 th and L Streets, NW	022, 034	11/13/14	*			
36g	18 th and M Streets, NW	022, 034	11/13/14	*			
36h	18 th and M Streets, NW	022, 034	11/13/14	*			
37	27 th and Eye Streets, NW	022	11/04/14	*			
38	29 th and K Streets, NW	024	11/07/14	*			
38a	30 th Street, south of K Street, NW	024	11/07/14	*			
39a	30 th and K Streets, NW	024	11/07/14	*			
39b	30 th and K Streets, NW	024	11/07/14	*			
41b	31 st and K Streets, NW	025	11/07/14	*			
41c	31 st and K Streets, NW	025	11/07/14	*			
42	Wisconsin Ave and K Street, NW	026	11/07/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
43	Potomac and Water Streets, NW	027	11/07/14	*			
43a	Potomac and Water Streets, NW	027	11/07/14	*			
44	Water Street, west of Potomac St, NW	027	11/07/14	*			
45	36 th and M Streets, NW	028	11/03/14	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	11/03/14	*			
47	38 th Street and Reservoir Road, NW	029	11/03/14	*			
47a	37 th and T Streets, NW	029	11/03/14	*			
47b	37 th and T Streets, NW	029	11/03/14	*			
47c	38 th and W Streets, NW	029	11/03/14	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	11/04/14	*			
51	N Street Extended, west of 25 th Street, NW	033	11/13/14	*			
52	22 nd Street between M and N Streets, NW	034	11/04/14	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	11/04/14	*			
53	22 nd and M Streets, NW	022, 034	11/04/14	*			
53a	22 nd and M Streets, NW	022, 034	11/12/14	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	11/12/14	*			
53c	L and 22 nd Streets, NW	022	11/12/14	*			
54	23 rd and O Streets, NW	034	11/12/14	*			
55	22 nd Street, south of Q Street, NW	035	11/12/14	*			
55a	22 nd Street, south of Q Street, NW	035	11/12/14	*			
56	23 rd and Massachusetts Ave, NW	036	11/12/14	*			
57	23 rd Street, south of Q Street, NW	036	11/12/14	*			
58 ¹	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	11/04/14	*			
60	Connecticut Ave, east of Rock Creek, NW	039	11/04/14	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	11/04/14	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	11/05/14	*			
63	Harvard Street and Rock Creek Parkway, NW	042	11/05/14	*			
64	Adams Mill Road, south of Irving Street, NW	043	11/05/14	*			
65	Kenyon Street and Adams Mill Road, NW	044	11/05/14	*			
65a	Kenyon Street and Adams Mill Road, NW	044	11/05/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
66	Adams Mill Road and Lamont Street, NW	045	11/05/14	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	11/05/14	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	11/05/14	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	11/05/14	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	11/05/14	*			
70i	5 th and Quackenbos Streets, NW	049	11/07/14	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	11/07/14	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	11/12/14	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	11/12/14	*			
73	O Street Extended and Rock Creek Parkway, NW	052	11/12/14	*			
74 ¹	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	11/13/14	*			
77^{1}	Normanstone Dr Extended, west of Rock Creek, NW	056	N/A				
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	N/A				
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	11/12/14	*			
84a	26 th and P Streets, NW	060	11/12/14	*			

1. Structure no longer functions as a combined sewer overflow regulator structure.

Regulator Structures December 2014

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
2	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	12/10/14	*			
4	Bolling AFB, 2250 ft. north of the south line of the Base, SW	003	12/29/14	*			
5	Poplar Point Pumping Station	004	12/01/14	*			
6	Chicago Street and Railroad Ave, SE	005	12/02/14	*			
7	W Street and Railroad Ave, SE	005	12/02/14	*			
8^1	Good Hope Rd, west of Nichols Ave, SE	006	N/A				
9	13 th Street and Ridge Place, SE	007	12/02/14	*			
11	"O" Street Pumping Station	011(a)	12/01/14	*			
12	Storm Pump Discharge at Main Pumping Station	011	12/01/14	*			
13	2 nd Street, 300 ft. north of N Place, SE	009	12/17/14	*			
14	2 nd Street, 250 ft. north of N Place, SE	011(a)	12/17/14	*			
15	South Capitol and E Streets	010	12/29/14	*			
15a	Half and L Streets, SE	010	1229/14	*			
15b	South Capitol and I Streets	010	12/15/14	*			
15c	South Capitol and I Streets	010	12/15/14	*			
16	North of Main Sewage Pumping Station	012	12/29/14	*			
17	4 th and N Streets, SE, Both Extended	013	12/22/14	*			
17a	K Street between 6 th Street and 7 th Street, SE	013	12/17/14	*			
18	6 th and M Streets, SE	014	12/12//14	*			
19	9 th and M Streets, SE	015	N/A				Construction for Clean Rivers Project
19a	9 th and M Streets, SE	015	N/A				Construction for Clean Rivers Project
20	12 th and M Streets, SE	016	N/A				Construction for Clean Rivers Project
20a	12 th and M Streets, SE	016	12/02/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
21	14 th and M Streets_SE	017	N/A				Construction for
21		017					Clean Rivers Project
22a	Barney Circle and Pennsylvania Ave, SE	018	12/12/14	*			
22b	Barney Circle and Pennsylvania Ave, SE	018	12/12/14	*			
22c	Barney Circle and Pennsylvania Ave, SE	018	12/12/14	*			
22d	Kentucky Ave and Potomac Street, SE	018	12/12/14	*			
22e	14 th Street and Kentucky Ave, SE	018	12/12/14	*			
23	Independence Ave, 21 st Street, SE, Extended	019	12/12/14	*			
24a	East Capitol St, west of RFK stadium	019	12/12/14	*			
28	21 st and Constitution Ave, NW	020	12/12/14	*			
29	22 nd Street, between Constitution Ave and C St, NW	020	12/12/14	*			
30	17 th and D Streets, NW	020	12/15/14	*			
31	15 th Street and Pennsylvania Ave, NW	020	12/15/14	*			
33	10 th and F Streets, NW	020	12/15/14	*			
34	23 rd Street, north of Constitution Ave, NW	020	12/29/14	*			
34a	23 rd Street near C Street, NW	020	12/12/14	*			
35	Northeast of Roosevelt Bridge, NW	021	12/29/14	*			
36	27 th and I Streets, NW	022	12/12/14	*			
36a	New Hampshire Ave and Eye Street, NW	022	12/12/14	*			
36b	19 th and L Streets, NW	022, 034	12/12/14	*			
36d	17 th and L Streets, NW	022, 034	12/12/14	*			
36g	18 th and M Streets, NW	022, 034	12/12/14	*			
36h	18 th and M Streets, NW	022, 034	12/12/14	*			
37	27 th and Eye Streets, NW	022	12/12/14	*			
38	29 th and K Streets, NW	024	12/17/14	*			
38a	30 th Street, south of K Street, NW	024	12/17/14	*			
39a	30 th and K Streets, NW	024	12/17/14	*			
39b	30 th and K Streets, NW	024	12/17/14	*			
41b	31 st and K Streets, NW	025	12/17/14	*			
41c	31 st and K Streets, NW	025	12/17/14	*			
42	Wisconsin Ave and K Street, NW	026	12/17/14	*			
43	Potomac and Water Streets, NW	027	12/17/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
43a	Potomac and Water Streets, NW	027	12/17/14	*			
44	Water Street, west of Potomac St, NW	027	12/17/14	*			
45	36 th and M Streets, NW	028	12/15/14	*			
46	Canal Rd, 1000ft. east of Foxhall Rd, NW	029	12/15/14	*			
47	38 th Street and Reservoir Road, NW	029	12/15/14	*			
47a	37 th and T Streets, NW	029	12/15/14	*			
47b	37 th and T Streets, NW	029	12/15/14	*			
47c	38 th and W Streets, NW	029	12/15/14	*			
49 ¹	Pennsylvania Ave, east side of Rock Creek, NW	031	N/A				
50	26 and M Streets, NW	032	12/22/14	*			
51	N Street Extended, west of 25 th Street, NW	033	12/22/14	*			
52	22 nd Street between M and N Streets, NW	034	12/22/14	*			
52a	N Street between 22 nd and 23 rd Streets, NW	034	12/22/14	*			
53	22 nd and M Streets, NW	022, 034	12/22/14	*			
53a	22 nd and M Streets, NW	022, 034	12/22/14	*			
53b	L Street between 21 st Street and New Hampshire Ave, NW	022, 034	12/22/14	*			
53c	L and 22 nd Streets, NW	022	12/22/14	*			
54	23 rd and O Streets, NW	034	12/19/14	*			
55	22 nd Street, south of Q Street, NW	035	12/19/14	*			
55a	22 nd Street, south of Q Street, NW	035	12/19/14	*			
56	23 rd and Massachusetts Ave, NW	036	12/19/14	*			
57	23 rd Street, south of Q Street, NW	036	12/19/14	*			
58 ¹	Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW	037	N/A				
59	North of Belmont Rd, east of Kalorama Cir, NW	038	12/11/14	*			
60	Connecticut Ave, east of Rock Creek, NW	039	12/03/14	*			
61	Biltmore St, Extended, east of Rock Creek, NW	040	12/10/14	*			
62	Ontario Rd, Extended, and Rock Creek Pkwy, NW	041	12/10/14	*			
63	Harvard Street and Rock Creek Parkway, NW	042	12/10/14	*			
64	Adams Mill Road, south of Irving Street, NW	043	12/10/14	*			
65	Kenyon Street and Adams Mill Road, NW	044	12/10/14	*			
65a	Kenyon Street and Adams Mill Road, NW	044	12/10/14	*			

Structure		Associated NPDES	Date	С	ondition		
Number	Location	Outfall	Inspected	Good	Needs Work	Work Needed	Work performed
66	Adams Mill Road and Lamont Street, NW	045	12/10/14	*			
67	Park Rd, south of Piney Branch Pkwy, NW	046	12/10/14	*			
68	Ingleside Terrance, Extended and Piney Branch Parkway, NW	047	12/10/14	*			
69	Mt. Pleasant Street, Extended and Piney Branch Parkway, NW	048	12/10/14	*			
70	Piney Branch Parkway, west of 16 th Street, NW	049	12/02/14	*			
70i	5 th and Quackenbos Streets, NW	049	12/02/14	*			
71	28 th Street, west of Rock Creek Parkway, NW	050	12/12/14	*			
72	Olive Street Extended and Rock Creek Pkwy, NW	051	12/19/14	*			
72a	Olive Street Extended and Rock Creek Pkwy, NW	051	12/19/14	*			
73	O Street Extended and Rock Creek Parkway, NW	052	12/19/14	*			
74 ¹	Q Street, west of Rock Creek, NW	053	N/A				
75	West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW	054	12/22/14	*			
77^{1}	Normanstone Dr Extended, west of Rock Creek, NW	056	N/A				
77a ¹	Normanstone Dr and Normanstone Lane, NW	056	N/A				
78 ¹	28th Street Extended, west of Rock Creek, NW	057	N/A				
79 ¹	Connecticut Ave and Rock Creek Parkway, NW	058	N/A				
84	26 th and P Streets, NW	060	12/17/14	*			
84a	26 th and P Streets, NW	060	12/1714	*			

- 1. Structure no longer functions as a combined sewer overflow regulator structure.
- 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.

APPENDIX 2-4

Inspection and Maintenance Summaries: Outfalls and Tide Gates

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.

		Junual	y 4 0	11							
			0	utfall	Tide	Gate	Tid	e Gate			
			Cor	idition	Pres	ent?	Cor	idition	CS	O Sign	
				Needs				Needs		Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ОК	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	01/31/14	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	01/02/14	*		*		*		*		
006 ¹	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	01/02/14	*		*		*		*		
009	O St. Sewage Pumping Station, SE	01/09/14	*		*		*		*		
010	O St. Sewage Pumping Station, SE	01/09/14	*			*			*		
011	Main Sewage Pumping Station, SE	01/09/14	*			*			*		
011(a)	Main Sewage Pumping Station, SE	01/09/14	*		*		*		*		
012	Main Sewage Pumping Station, SE	01/09/14	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	N/A									Construction for Clean Rivers Project
014	Navy Yard, aligned with 6 th St., SE	01/13/14	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	01/13/14	*			*			*		

Outfalls and Tide Gates January 2014

			Oi Cor	utfall dition	Tide Pros	Gate	Tide	e Gate	CS	O Sian	
			COL	Needs	1705	eni:	CON	Needs	CD	Needs	
NPDES	r	Date	ОК	Work	Yes	No	ок	Work	ОК	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
016	12th and O Streets, SE	01/16/14	*		*		*		*		
017	M and Water Street, SE	01/16/14	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	01/16/14	*		*		*		*		
	Adjacent to Service Drive behind swirl facility & D.C. General										
019	Hospital	01/31/14	*			*			*		
020	Rock Creek Parkway and Independence, NW	01/02/14	*		*		*		*		
021	Rock Creek Parkway and C St., NW	01/02/14	*			*			*		
022	Rock Creek Parkway and G St., NW	01/02/14	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	01/02/14	*		*		*		*		
025	South of 31st and K Streets, NW	01/02/14	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	01/02/14	*		*		*		*		
027	33 rd and Water Sts., NW	01/02/14	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	01/02/14	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	01/02/14	*		*		*		*		
031 ¹	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									

			01	utfall	Tide	Gate	Tid	e Gate	CG	0.5:	
			Con	Needs	Pres	sent?	Cor	Needs	CS	0 Sign Needs	
NPDES		Date	ОК	Work	Yes	No	ок	Work	ок	Work	
Outfall	Location	Inspected	-	-			-				Notes, Work Needed or Performed
032	26th and M Street, NW.	01/27/14	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	01/27/14	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	01/17/14	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	01/17/14	*		*		*		*		
036	22nd Street, South of Q Street NW.	01/09/14	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	01/02/14	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	01/06/14	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	01/06/14	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	01/02/14	*		*		*		*		
042	Harvard St. and Beach Dr NW.	01/02/14	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	01/02/14	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	01/02/14	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	01/02/14	*		*		*		*		

			01	utfall	Tide	Gate	Tid	Tide Gate		0.5.	
			Con	Needs	Pres	sent?	Cor	Needs	CS	O Sign Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ок	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
046	Piney Branch Parkway and Park Road, NW.	01/08/14	*		*		*		*		
047	Piney Branch Parkway and Ingleside Terrace	01/08/14	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	01/08/14	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	01/08/14	*		*		*		*		
050	Rock Creek Parkway and L St., NW	01/27/14	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	01/31/14	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	01/31/14	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	01/27/14	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	N/A									
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
0581	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	01/09/14	*		*		*		*		

1. Structure no longer functions as a combined sewer outfall.

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.

		1 CDI uu	ii y 20	014							
			0	utfall	Tide	Gate	Tid	e Gate			
			Cor	ndition	Pres	ent?	Cor	ndition	CS	O Sign	
				Needs				Needs		Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ОК	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	02/25/14	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	02/06/14	*		*		*		*		
0061	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	02/06/14	*		*		*		*		
009	O St. Sewage Pumping Station, SE	02/04/14	*		*		*		*		
010	O St. Sewage Pumping Station, SE	02/04/14	*			*			*		
011	Main Sewage Pumping Station, SE	02/04/14	*			*			*		
011(a)	Main Sewage Pumping Station, SE	02/04/14	*		*		*		*		
012	Main Sewage Pumping Station, SE	02/04/14	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	N/A									Construction for Clean Rivers Project
014	Navy Yard, aligned with 6 th St., SE	02/04/14	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	02/04/14	*			*			*		

Outfalls and Tide Gates February 2014

				utfall dition	Tide Pres	Gate	? Tide Gate Condition		Tide Gate		
			Con	Needs	1705	eni:	00	Needs	Co	Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ОК	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
016	12th and O Streets, SE	02/20/14	*		*		*		*		
017	M and Water Street, SE	02/20/14	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	02/20/14	*		*		*		*		
	Adjacent to Service Drive behind swirl facility & D.C. General	02/20/14									
019	Hospital		*			*			*		
020	Rock Creek Parkway and Independence, NW	02/20/14	*		*		*		*		
021	Rock Creek Parkway and C St., NW	02/20/14	*			*			*		
022	Rock Creek Parkway and G St., NW	02/20/14	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	02/20/14	*		*		*		*		
025	South of 31st and K Streets, NW	02/20/14	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	02/20/14	*		*		*		*		
027	33 rd and Water Sts., NW	02/20/14	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	02/20/14	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	02/20/14	*		*		*		*		
031 ¹	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	02/25/14	*			*			*		

			Oi Cor	utfall dition	Tide Pres	Gate	Tid Cor	e Gate	CS	O Sian	
			001	Needs	1705	eni:	001	Needs	0.5	Needs	-
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ок	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
033	Across street from St. Francis Jr. High and aligned with N St., NW.	02/25/14	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	02/25/14	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	02/20/14	*		*		*		*		
036	22nd Street, South of Q Street NW.	02/20/14	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	02/06/14	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	02/06/14	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	02/06/14	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	02/27/14	*		*		*		*		
042	Harvard St. and Beach Dr NW.	02/27/14	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	02/27/14	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	02/27/14	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	02/13/14	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	02/13/14	*		*		*		*		

				utfall	Tide Due	Gate	Tid	e Gate	CS	O Sian	
			Cor	Needs	Pres	sent?	Cor	Needs	CS	Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ОК	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
047	Piney Branch Parkway and Ingleside Terrace	02/13/14	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	02/13/14	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	02/13/14	*		*		*		*		
050	Rock Creek Parkway and L St., NW	02/13/14	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	02/06/14	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	02/27/14	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	02/27/14	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	N/A									
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	02/20/14	*		*		*		*		

1.Structure no longer functions as a combined sewer outfall.

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.

Outfalls and Tide Gates March 2014

			Oi Cor	utfall 1dition	Tide Pres	Gate ent?	Tid Cor	e Gate 1dition	CS	O Sign	
				Needs				Needs		Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ОК	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	03/27/14	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	03/20/14	*		*		*		*		
006 ¹	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	03/27/14	*		*		*		*		
009	O St. Sewage Pumping Station, SE	03/20/14	*		*		*		*		
010	O St. Sewage Pumping Station, SE	03/20/14	*			*			*		
011	Main Sewage Pumping Station, SE	03/20/14	*			*			*		
011(a)	Main Sewage Pumping Station, SE	03/20/14	*		*		*		*		
012	Main Sewage Pumping Station, SE	03/20/14	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	N/A									Construction for Clean Rivers Project
014	Navy Yard, aligned with 6 th St., SE	03/20/14	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	03/20/14	*			*			*		

				utfall dition	Tide Pres	Gate	Tid Cor	e Gate	CS	0 Sian	
			Con	Needs	1705	eni:	00	Needs	0.0	Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ОК	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
016	12th and O Streets, SE	03/20/14	*		*		*		*		
017	M and Water Street, SE	03/20/14	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	03/20/14	*		*		*		*		
	Adjacent to Service Drive behind swirl facility & D.C. General	03/201/4									
019	Hospital		*			*			*		
020	Rock Creek Parkway and Independence, NW	03/28/14	*		*		*		*		
021	Rock Creek Parkway and C St., NW	03/20/14	*			*			*		
022	Rock Creek Parkway and G St., NW	03/20/14	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	03/06/14	*		*		*		*		
025	South of 31st and K Streets, NW	03/06/14	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	03/06/14	*		*		*		*		
027	33 rd and Water Sts., NW	03/06/14	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	03/06/14	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	03/06/14	*		*		*		*		
0311	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	03/19/14	*			*			*		

			Oi Cor	utfall dition	Tide Pres	Gate	Tid	e Gate	CS	O Sian	
			Con	Needs	1705	ent	00	Needs	0.0	Needs	
NPDES		Date	ок	Work	Yes	No	ОК	Work	ок	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
033	Across street from St. Francis Jr. High and aligned with N St., NW.	03/19/14	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	03/28/14	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	03/20/14	*		*		*		*		
036	22nd Street, South of Q Street NW.	03/20/14	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	03/27/14	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	03/10/14	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	03/10/14	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	03/20/14	*		*		*		*		
042	Harvard St. and Beach Dr NW.	03/20/14	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	03/20/14	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	03/20/14	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	03/20/14	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	03/07/14	*		*		*		*		

			Oi Cor	utfall 1dition	Tide Pres	Gate ent?	Tid Cor	e Gate 1dition	CS	O Sign	
				Needs				Needs		Needs	
NPDES		Date	ок	Work	Yes	No	ОК	Work	ОК	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
047	Piney Branch Parkway and Ingleside Terrace	03/07/14	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	03/07/14	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	03/07/14	*		*		*		*		
050	Rock Creek Parkway and L St., NW	03/27/14	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	03/27/14	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	03/27/14	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	03/27/14	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	N/A									
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	03/20/14	*		*		*		*		

1.Structure no longer functions as a combined sewer outfall.
-		Арп	14 01.	T							
			0	utfall	Tide	Gate	Tid	e Gate			
			Cor	ndition	Pres	ent?	Cor	ndition	CS	O Sign	
				Needs				Needs		Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ОК	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	04/18/14	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	04/17/14	*		*		*		*		
0061	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	04/17/14	*		*		*		*		
009	O St. Sewage Pumping Station, SE	04/05/14	*		*		*		*		
010	O St. Sewage Pumping Station, SE	04/05/14	*			*			*		
011	Main Sewage Pumping Station, SE	04/05/14	*			*			*		
011(a)	Main Sewage Pumping Station, SE	04/05/14	*		*		*		*		
012	Main Sewage Pumping Station, SE	04/05/14	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	N/A									Construction for Clean Rivers Project
014	Navy Yard, aligned with 6 th St., SE	04/17/14	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	04/17/14	*			*			*		

Outfalls and Tide Gates April 2014

			01	utfall	Tide	Gate	Tid	e Gate	CS	0.5:	
			Con	Needs	Pres	ent?	Cor	Needs	CS	Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ок	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
016	12th and O Streets, SE	04/03/14	*		*		*		*		
017	M and Water Street, SE	04/03/14	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	04/03/14	*		*		*		*		
	Adjacent to Service Drive behind swirl facility & D.C. General	04/17/14									
019	Hospital		*			*			*		
020	Rock Creek Parkway and Independence, NW	04/24/14	*		*		*		*		
021	Rock Creek Parkway and C St., NW	04/24/14	*			*			*		
022	Rock Creek Parkway and G St., NW	04/24/14	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	04/24/14	*		*		*		*		
025	South of 31st and K Streets, NW	04/24/14	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	04/24/14	*		*		*		*		
027	33 rd and Water Sts., NW	04/24/14	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	04/24/14	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	04/24/14	*		*		*		*	_	
0311	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	04/03/14	*			*			*		

				utfall dition	Tide Pres	Gate	Tid Cor	e Gate	CS	O Sian	
			Con	Needs	1705	ent	00	Needs	0.0	Needs	
NPDES		Date	ок	Work	Yes	No	ОК	Work	ок	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
033	Across street from St. Francis Jr. High and aligned with N St., NW.	04/03/14	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	04/16/14	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	04/16/14	*		*		*		*		
036	22nd Street, South of Q Street NW.	04/03/14	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	04/14/14	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	04/02/14	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	04/02/14	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	04/25/14	*		*		*		*		
042	Harvard St. and Beach Dr NW.	04/25/14	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	04/25/14	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	04/25/14	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	04/25/14	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	04/28/14	*		*		*		*		

				utfall	Tide	Gate	Tid	e Gate	C	0.5:	
			01	Needs	Pres	sent?	Cor	Needs	CS	Needs	
NPDES		Date	ок	Work	Yes	No	ок	Work	ок	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
047	Piney Branch Parkway and Ingleside Terrace	04/28/14	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	04/28/14	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	04/18/14	*		*		*		*		
050	Rock Creek Parkway and L St., NW	04/25/14	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	04/25/14	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	04/25/14	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	04/03/14	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	N/A									
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	04/03/14	*		*		*		*		

-		May	401-	T							
			0	utfall	Tide	Gate	Tid	e Gate			
			Cor	ndition	Pres	sent?	Cor	ndition	CS	O Sign	
				Needs				Needs		Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ОК	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	05/20/14	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	05/01/14	*		*		*		*		
0061	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	05/01/14	*		*		*		*		
009	O St. Sewage Pumping Station, SE	05/22/14	*		*		*		*		
010	O St. Sewage Pumping Station, SE	05/22/14	*			*			*		
011	Main Sewage Pumping Station, SE	05/22/14	*			*			*		
011(a)	Main Sewage Pumping Station, SE	05/22/14	*		*		*		*		
012	Main Sewage Pumping Station, SE	05/22/14	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	N/A									Construction for Clean Rivers Project
014	Navy Yard, aligned with 6 th St., SE	05/22/14	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	05/22/14	*			*			*		

Outfalls and Tide Gates May 2014

				utfall	Tide Dread	Gate	Tid	e Gate	CC	0.5:	
			Cor	Needs	Pres	sent?	Cor	Needs	CS	O Sign Needs	
NPDES		Date	ОК	Work	Yes	No	ок	Work	ОК	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
016	12th and O Streets, SE	05/22/14	*		*		*		*		
017	M and Water Street, SE	05/22/14	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	05/22/14	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	05/20/14	*			*			*		
020	Rock Creek Parkway and Independence, NW	05/15/14	*		*		*		*		
021	Rock Creek Parkway and C St., NW	05/15/14	*			*			*		
022	Rock Creek Parkway and G St., NW	05/15/14	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	05/15/14	*		*		*		*		
025	South of 31st and K Streets, NW	05/15/14	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	05/15/14	*		*		*		*		
027	33 rd and Water Sts., NW	05/15/14	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	05/15/14	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	05/15/14	*		*		*		*		
0311	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	05/30/14	*			*			*		

				utfall dition	Tide Pro	Gate	Tid Cor	e Gate	CS	O Sian	
			00	Needs	Tres	eni	00	Needs	0.0	Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ок	Work	
Outfall	Location	Inspected	-	_			-		_	-	Notes, Work Needed or Performed
033	Across street from St. Francis Jr. High and aligned with N St., NW.	05/30/14	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	05/23/14	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	05/23/14	*		*		*		*		
036	22nd Street, South of Q Street NW.	05/30/14	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	05/12/14	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	05/12/14	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	05/01/14	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	05/01/14	*		*		*		*		
042	Harvard St. and Beach Dr NW.	05/01/14	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	05/01/14	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	05/01/14	*		*		*		*		
045	North of Beach Dr. and Walbridge PI, NW.	05/14/14	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	05/14/14	*		*		*		*		

			Oi Car	utfall	Tide Duo	Gate	Tid	e Gate	CS	O Sian	
			Cor	Needs	Pres	eni?	Cor	Needs	CS	Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ок	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
047	Piney Branch Parkway and Ingleside Terrace	05/14/14	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	05/14/14	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	05/14/14	*		*		*		*		
050	Rock Creek Parkway and L St., NW	05/14/14	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	05/30/14	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	05/30/14	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	05/30/14	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	N/A									
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	05/30/14	*		*		*		*		

		June	2014	<u>, </u>							
			- Ol	utfall	Tide	Gate	Tid	e Gate			
			Cor	ıdition	Pres	sent?	Cor	<i>idition</i>	CS	O Sign	4
				Needs	'		'	Needs		Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ОК	Work	
Outfall	Location	Inspected	 '	<u> </u> '	↓ '	ٰ لــــــــــــــــــــــــــــــــــــ	'	_	 '	 '	Notes, Work Needed or Performed
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	06/02/14	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	06/02/14	*		*		*		*		
006 ¹	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	06/02/14	*		*		*		*		
009	O St. Sewage Pumping Station, SE	06/19/14	*		*		*		*		
010	O St. Sewage Pumping Station, SE	06/19/14	*			*			*		
011	Main Sewage Pumping Station, SE	06/19/14	*			*			*		
011(a)	Main Sewage Pumping Station, SE	06/19/14	*		*		*		*		
012	Main Sewage Pumping Station, SE	06/02/14	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	N/A									Construction for Clean Rivers Project
014	Navy Yard, aligned with 6 th St., SE	06/02/14	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	06/18/14	*			*			*		

Outfalls and Tide Gates June 2014

				utfall	Tide	Gate	Tid	e Gate	CO	0.5.	
			Con	Needs	Pres	ent?	Cor	Needs	CS	U Sign	
NPDFS		Date	ОК	Work	Yes	No	ОК	Work	ОК	Work	
Outfall	Location	Inspected	ÖN		105		U.		ÖN		Notes, Work Needed or Performed
016	12th and O Streets, SE		*		*		*		*		
017	M and Water Street, SE	06/19/14	*		*		*		*		Need to secure key for regular access.
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	06/12/14	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	06/02/14	*			*			*		
020	Rock Creek Parkway and Independence, NW	06/12/14	*		*		*		*		
021	Rock Creek Parkway and C St., NW	06/12/14	*			*			*		
022	Rock Creek Parkway and G St., NW	06/12/14	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	06/12/14	*		*		*		*		
025	South of 31st and K Streets, NW	06/12/14	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	06/12/14	*		*			*	*		Need DMS to weld part of the gate.
027	33 rd and Water Sts., NW	06/12/14	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	06/12/14	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	06/12/14	*		*		*		*		
0311	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									

				utfall dition	Tide Pro	Gate	Tid Cor	e Gate	CS	O Sian	
			Con	Needs	1705		00	Needs	Co	Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ОК	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
032	26th and M Street, NW.	06/17/14	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	06/17/14	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	06/18/14	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	06/18/14	*		*		*		*		
036	22nd Street, South of Q Street NW.	06/19/14	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	06/19/14	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	06/05/14	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	06/05/14	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	06/05/14	*		*		*		*		
042	Harvard St. and Beach Dr NW.	06/05/14	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	06/05/14	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	06/05/14	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	06/05/14	*		*		*		*		

				utfall Idition	Tide Pres	Gate	Tid	e Gate	CS	0 Sian	
			00	Needs	1705	eni:	00	Needs	0.5	Needs	
NPDES Outfall	Location	Date Inspected	ОК	Work	Yes	No	ОК	Work	ОК	Work	Notes Work Needed or Performed
046	Piney Branch Parkway and Park Road, NW.	06/05/14	*		*		*		*		Troces, work freeded of Terjormed
047	Piney Branch Parkway and Ingleside Terrace	06/05/14	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	06/05/14	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	06/05/14	*		*		*		*		
050	Rock Creek Parkway and L St., NW	06/09/14	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	06/19/14	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	06/19/14	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	06/05/14	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	N/A									
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	06/19/14	*		*		*		*		

1.Structure no longer functions as a combined sewer outfall. **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.

Outfalls and Tide Gates July 2014

			Oı	utfall	Tide	Gate	Tid	e Gate			
			Con	ndition	Pres	ent?	Cor	ıdition	CS	O Sign	
				Needs				Needs		Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ОК	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	07/04/14	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	07/17/14	*		*		*		*		
0061	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	07/17/14	*		*		*		*		
009	O St. Sewage Pumping Station, SE	07/02/14	*		*		*		*		
010	O St. Sewage Pumping Station, SE	07/02/14	*			*			*		
011	Main Sewage Pumping Station, SE	07/02/14	*			*			*		
011(a)	Main Sewage Pumping Station, SE	07/02/14	*		*		*		*		
012	Main Sewage Pumping Station, SE	07/02/14	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	N/A									Construction for Clean Rivers Project
014	Navy Yard, aligned with 6 th St., SE	07/02/14	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	07/02/14	*			*			*		
016	12th and O Streets, SE	07/02/14	*		*		*		*		

			0	utfall	Tide	Gate	Tid	e Gate	00	0.0.	
			Cor	Needs	Pres	sent?	Cor	Needs	CS	O Sign Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ОК	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
017	M and Water Street, SE	07/02/14	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	07/02/14	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	07/02/14	*			*			*		
020	Rock Creek Parkway and Independence, NW	07/10/14	*		*		*		*		
021	Rock Creek Parkway and C St., NW	07/10/14	*			*			*		
022	Rock Creek Parkway and G St., NW	07/10/14	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	07/10/14	*		*		*		*		
025	South of 31st and K Streets, NW	07/10/14	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	07/10/14	*		*			*	*		Need DMS to weld part of the gate.
027	33 rd and Water Sts., NW	07/10/14	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	07/10/14	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	07/10/14	*		*		*		*		
031 ¹	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	07/14/14	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	07/14/14	*		*		*		*		

				utfall dition	Tide Pro	Gate	Tid Cor	e Gate	CS	O Sian	
			Con	Needs	Tres		Cor	Needs	CS	Needs	
NPDES Outfall	Location	Date Inspected	ОК	Work	Yes	No	ОК	Work	ОК	Work	Notes, Work Needed or Performed
034	Just west of St. Francis Jr. High and north of N St., NW	07/11/14	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	07/11/14	*			*			*		
036	22nd Street, South of Q Street NW.	07/16/14	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	07/07/14	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	07/07/14	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	07/07/14	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	07/17/14	*		*		*		*		
042	Harvard St. and Beach Dr NW.	07/17/14	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	07/17/14	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	07/17/14	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	07/17/14	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	07/18/14	*		*		*		*		
047	Piney Branch Parkway and Ingleside Terrace	07/18/14	*		*		*		*		

			O	utfall dition	Tide Brow	Gate	Tid Car	e Gate	CS	0 Sian	
			0	Needs	ries	sent?	0	Needs	CS	Needs	
NPDFS		Date	ОК	Work	Ves	No	ОК	Work	ОК	Work	
Outfall	Location	Inspected		WORK	103	NO	ÖK	WORK	ÖK	WORK	Notes, Work Needed or Performed
048	South of Piney Branch Parkway and 17 th St.	07/18/14	*		*		*		*		, , , , , , , , , , , , , , , , , , ,
049	North of Piney Branch Parkway and 17 th St.	07/18/14	*		*		*		*		
050	Rock Creek Parkway and L St., NW	07/16/14	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	07/24/14	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	07/24/14	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	07/24/14	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	N/A									
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	07/161/4	*		*		*		*		

		Augua	51 <u>4</u> 01								
			0	utfall	Tide	Gate	Tid	e Gate			
			Cor	ıdition	Pres	ent?	Cor	ndition	CS	O Sign	
				Needs				Needs		Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ОК	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	08/26/14	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	08/21/14	*		*		*		*		
0061	Good Hope Road and Welsh Memorial Bridge	N/A	*		*		*		*		
007	Between 11 th St. and Anacostia Bridges, SE	08/21/14	*		*		*		*		
009	O St. Sewage Pumping Station, SE	08/05/14	*		*		*		*		
010	O St. Sewage Pumping Station, SE	08/05/14	*			*			*		
011	Main Sewage Pumping Station, SE	08/05/14	*			*			*		
011(a)	Main Sewage Pumping Station, SE	08/05/14	*		*		*		*		
012	Main Sewage Pumping Station, SE	08/05/14	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	N/A									Construction for Clean Rivers Project
014	Navy Yard, aligned with 6 th St., SE	08/05/14	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	08/05/14	*			*			*		

Outfalls and Tide Gates August 2014

				utfall dition	Tide Pres	Gate	Tid Cor	e Gate	CS	O Sian	
			CON	Needs	1705		00	Needs	CD	Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ОК	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
016	12th and O Streets, SE	08/05/14	*		*		*		*		
017	M and Water Street, SE	08/05/14	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	08/05/14	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	08/05/14	*			*			*		
020	Rock Creek Parkway and Independence, NW	08/22/14	*		*		*		*		
021	Rock Creek Parkway and C St., NW	08/22/14	*			*			*		
022	Rock Creek Parkway and G St., NW	08/22/14	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	08/22/14	*		*			*	*		
025	South of 31st and K Streets, NW	08/22/14	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	08/22/14	*		*		*		*		Need DMS to weld part of the gate.
027	33 rd and Water Sts., NW	08/22/14	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	08/22/14	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	08/22/14	*		*		*		*		
0311	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	08/22/14	*			*			*		

			Oi Cor	utfall dition	Tide Pres	Gate	Tid Cor	e Gate	CS	O Sian	
			Con	Needs	1705	cm.	001	Needs	CD	Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ок	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
033	Across street from St. Francis Jr. High and aligned with N St., NW.	08/22/14	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	08/22/14	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	08/22/14	*			*			*		
036	22nd Street, South of Q Street NW.	08/22/14	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	08/25/14	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	08/21/14	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	08/21/14	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	08/21/14	*		*		*		*		
042	Harvard St. and Beach Dr NW.	08/21/14	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	08/21/14	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	08/21/14	*		*		*		*		
045	North of Beach Dr. and Walbridge PI, NW.	08/21/14	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	08/21/14	*			*			*		

				utfall	Tide	Gate	Tid	e Gate	CS	0.5:	
			01	Needs	Pres	sent?	Cor	Needs	CS	Needs	
NPDES		Date	ок	Work	Yes	No	ок	Work	ок	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
047	Piney Branch Parkway and Ingleside Terrace		*		*		*		*		
		08/20/14									
048	South of Piney Branch Parkway and 17 th St.	08/20/14	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	08/20/14	*		*		*		*		
050	Rock Creek Parkway and L St., NW	08/20/14	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	08/25/14	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	08/21/14	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	08/21/14	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	N/A									
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	08/25/14	*		*		*		*		

	September 2014												
			Oi	utfall	Tide	Gate	Tid	e Gate					
			Con	ndition	Pres	ent?	Cor	ıdition	CS	O Sign			
				Needs				Needs		Needs			
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ОК	Work			
Outfall	Location	Inspected									Notes, Work Needed or Performed		
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	09/30/14	*		*		*		*				
005	Across from Navy Yard, aligned with Parsons Ave., SE	09/29/14	*		*		*		*				
0061	Good Hope Road and Welsh Memorial Bridge	N/A											
007	Between 11 th St. and Anacostia Bridges, SE	09/03/14	*		*		*		*				
009	O St. Sewage Pumping Station, SE	09/03/14	*		*		*		*				
010	O St. Sewage Pumping Station, SE	09/03/14	*			*			*				
011	Main Sewage Pumping Station, SE	09/03/14	*			*			*				
011(a)	Main Sewage Pumping Station, SE	09/03/14	*		*		*		*				
012	Main Sewage Pumping Station, SE	09/03/14	*		*		*		*				
013	Southeast Federal Center, aligned with 4 th St.	N/A									Construction for Clean Rivers Project		
014	Navy Yard, aligned with 6 th St., SE	09/03/14	*		*		*		*				
015	Navy Yard, aligned with 9th Street, SE	09/03/14	*			*			*				

Outfalls and Tide Gates Sentember 2014

				utfall dition	Tide Pres	Gate	Tid Cor	e Gate	CS	O Sign	
			000	Needs	1705	cni.	00	Needs	0.5	Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ОК	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
016	12th and O Streets, SE	09/03/14	*		*		*		*		
017	M and Water Street, SE	09/29/14	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	09/02/14	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	09/02/14	*			*			*		
020	Rock Creek Parkway and Independence, NW	09/29/14	*		*		*		*		
021	Rock Creek Parkway and C St., NW	09/30/14	*			*			*		
022	Rock Creek Parkway and G St., NW	09/30/14	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	09/30/14	*		*			*	*		
025	South of 31 st and K Streets, NW	09/30/14	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	09/30/14	*		*		*		*		Need DMS to weld part of the gate.
027	33 rd and Water Sts., NW	09/30/14	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	09/30/14	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	09/30/14	*		*		*		*		
031 ¹	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									
032	26th and M Street, NW.	09/16/14	*			*			*		

				utfall dition	Tide Pros	Gate	Tid Cor	e Gate	CS	O Sian	
			Con	Needs	1705		00	Needs	CD	Needs	
NPDES Outfall	Location	Date Inspected	ОК	Work	Yes	No	ОК	Work	ОК	Work	Notes Work Needed or Performed
033	Across street from St. Francis Jr. High and aligned with N St., NW.	09/16/14	*		*		*		*		The second se
034	Just west of St. Francis Jr. High and north of N St., NW	09/22/14	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	09/22/14	*			*			*		
036	22nd Street, South of Q Street NW.	09/22/14	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	09/30/14	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	09/24/14	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	09/15/14	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	09/15/14	*		*		*		*		
042	Harvard St. and Beach Dr NW.	09/18/14	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	09/18/14	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	09/18/14	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	09/18/14	*		*		*		*		
046	Piney Branch Parkway and Park Road, NW.	09/17/14	*			*			*		

			O	utfall dition	Tide Brow	Gate	Tid Car	e Gate	CS	0 Sian	
			01	Needs	Pres	eni?	01	Needs	CS	Needs	
NPDES		Date	ок	Work	Yes	No	ОК	Work	ок	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
047	Piney Branch Parkway and Ingleside Terrace	09/17/14	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	09/17/14	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	09/17/14	*		*		*		*		
050	Rock Creek Parkway and L St., NW	09/09/14	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	09/18/14	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	09/18/14	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	09/24/14	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	N/A									
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	09/30/14	*		*		*		*		

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. Outfalls and Tide Gates

		Octobe	er 20	14							
			0	utfall	Tide	Gate	Tid	le Gate			
			Cor	ndition	Pres	sent?	Cor	ndition	CS	O Sign	-
NDDES		Data	OK	Work	Voc	No	OK	Work	OK	Work	
Outfall	Location	Inspected	UK	VVOIK	163	NO		WOIK		WORK	Notes, Work Needed or Performed
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	10/07/14	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	10/02/14	*		*		*		*		
0061	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	10/21/14	*		*		*		*		
009	O St. Sewage Pumping Station, SE	10/21/14	*		*		*		*		
010	O St. Sewage Pumping Station, SE	10/21/14	*			*			*		
011	Main Sewage Pumping Station, SE	10/21/14	*			*			*		
011(a)	Main Sewage Pumping Station, SE	10/21/14	*		*		*		*		
012	Main Sewage Pumping Station, SE	10/21/14	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	N/A									Construction for Clean Rivers Project
014	Navy Yard, aligned with 6 th St., SE	10/21/14	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	10/21/14	*			*			*		

			Oi Cor	utfall dition	Tide Brook	Gate	Tid Car	e Gate	CS	0 Sian	
			Cor	Needs	Fres	sent?	0	Needs	CS	Needs	
NPDES Outfall	Location	Date Inspected	ОК	Work	Yes	No	ОК	Work	ОК	Work	Notes, Work Needed or Performed
016	12th and O Streets, SE	10/21/14	*		*		*		*		
017	M and Water Street, SE	10/21/14	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	10/21/14	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	10/09/14	*			*			*		
020	Rock Creek Parkway and Independence, NW	10/16/14	*		*		*		*		
021	Rock Creek Parkway and C St., NW	10/16/14	*			*			*		
022	Rock Creek Parkway and G St., NW	10/17/14	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	10/17/14	*		*			*	*		
025	South of 31 st and K Streets, NW	10/17/14	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	10/17/14	*		*		*		*		Need DMS to weld part of the gate.
027	33 rd and Water Sts., NW	10/17/14	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	10/17/14	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	10/17/14	*		*		*		*		
0311	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									

				utfall dition	Tide Proc	Gate	Tid Cor	e Gate	CS	O Sian	
			Con	Needs	Tres		Cor	Needs	CS	Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ОК	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
032	26th and M Street, NW.	10/07/14	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	10/07/14	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	10/06/14	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	10/21/14	*			*			*		
036	22nd Street, South of Q Street NW.	10/02/14	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
020	Between arch footbridge and Connecticut Ave., north of Kalorama	10/02/14	*		*		*		*		
038	CIrcle, NW.		4-		4-				-1-		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	10/02/14	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington	10/02/14	*		*		*		*		
	Bridge.		Ŧ		Ŧ		*		Ŧ		
041	Beach Dr. and Ontario Pl., NW	10/20/14	*		*		*		*		
042	Harvard St. and Beach Dr NW.	10/20/14	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	10/20/14	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	10/20/14	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	10/20/14	*		*		*		*		

				utfall dition	Tide Bree	Gate	Tid Car	e Gate	CS	O Sign	
			Con	Needs	ries	sent?	Cor	Needs	CS	Needs	
NPDES Outfall	Location	Date Inspected	ОК	Work	Yes	No	ОК	Work	ОК	Work	Notes Work Needed or Performed
046	Piney Branch Parkway and Park Road, NW.	10/08/14	*			*			*		Thores, work recuca or regormed
047	Piney Branch Parkway and Ingleside Terrace	10/08/14	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	10/08/14	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	10/08/14	*		*		*		*		
050	Rock Creek Parkway and L St., NW	10/02/14	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	10/02/14	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	10/02/14	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	10/17/14	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	N/A									
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	10/02/14	*		*		*		*		

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.

		1101011		v .							
			0	utfall	Tide	Gate	Tid	e Gate			
			Cor	ıdition	Pres	sent?	Cor	ndition	CS	O Sign	
				Needs				Needs		Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ОК	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	11/04/14	*		*		*		*		
005	Across from Navy Yard, aligned with Parsons Ave., SE	11/04/14	*		*		*		*		
0061	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	11/04/14	*		*		*		*		
009	O St. Sewage Pumping Station, SE	11/04/14	*		*		*		*		
010	O St. Sewage Pumping Station, SE	11/04/14	*			*			*		
011	Main Sewage Pumping Station, SE	11/04/14	*			*			*		
011(a)	Main Sewage Pumping Station, SE	11/04/14	*		*		*		*		
012	Main Sewage Pumping Station, SE	11/04/14	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	N/A									Construction for Clean Rivers Project
014	Navy Yard, aligned with 6 th St., SE	11/04/14	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	11/04/14	*			*			*		

Outfalls and Tide Gates November 2014

			Oi Cor	utfall dition	Tide Brook	Gate	Tid Car	e Gate	CS	0 Sian	
			Cor	Needs	Pres	sent?	Cor	Needs	CS	Needs	
NPDES Outfall	Location	Date Inspected	ОК	Work	Yes	No	ОК	Work	ОК	Work	Notes. Work Needed or Performed
016	12th and O Streets, SE	11/04/14	*		*		*		*		
017	M and Water Street, SE	11/04/14	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	11/04/14	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	11/04/14	*			*			*		
020	Rock Creek Parkway and Independence, NW	11/06/14	*		*		*		*		
021	Rock Creek Parkway and C St., NW	11/06/14	*			*			*		
022	Rock Creek Parkway and G St., NW	11/06/14	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	11/06/14	*		*		*		*		
025	South of 31 st and K Streets, NW	11/06/14	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	11/06/14	*		*			*	*		Need DMS to weld part of the gate.
027	33 rd and Water Sts., NW	11/06/14	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	11/06/14	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	11/06/14	*		*		*		*		
0311	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									

				utfall dition	Tide Proc	Gate	Tid Cor	e Gate	CS	O Sian	
			Con	Needs	ries	sent?	Cor	Needs	CS	Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ок	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
032	26th and M Street, NW.	11/13/14	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	11/13/14	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	11/13/14	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	11/13/14	*			*			*		
036	22nd Street, South of Q Street NW.	11/13/14	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
	Between arch footbridge and Connecticut Ave., north of Kalorama										
038	Circle, NW.		*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	11/04/14	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington	11/04/14	*		*		*		*		
	Bridge.		4-		4-		-1-				
041	Beach Dr. and Ontario Pl., NW	11/06/14	*		*		*		*		
042	Harvard St. and Beach Dr NW.	11/06/14	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	11/06/14	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	11/06/14	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	11/06/14	*		*		*		*		

				utfall	Tide	Gate	Tid C	e Gate	CS	0.5	
			Cor	Needs	Pres	sent?	Cor	Needs	CS	Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ОК	Work	
Outfall	Location	Inspected					_				Notes, Work Needed or Performed
046	Piney Branch Parkway and Park Road, NW.	11/05/14	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	11/05/14	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	11/05/14	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	11/05/14	*		*		*		*		
050	Rock Creek Parkway and L St., NW	11/07/14	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	11/20/14	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	11/20/14	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	11/13/14	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	N/A									
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
0581	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	11/13/14	*		*		*		*		

1. Structure no longer functions as a combined sewer outfall. **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.

Outfalls and Tide Gates December 2014

			0	utfall	Tide	Gate	Tid	e Gate	~~~	0.01	
			Cor	<i>idition</i>	Pres	sent?	Cor	<i>idition</i>	CS	O Sign	
NDDEC		Data	OK	Work	Voc	No	OK	Work	OK	Work	
Outfall	Location	Inspected	UK	WUIK	res	NO	UK	WUIK	UK	WOIK	Notes, Work Needed or Performed
003	Bolling Air Force Base, at Giavanolli and Chanute, SW	12/10/14	*		*		*		*		· · · · · · · · · · · · · · · · · · ·
005	Across from Navy Yard, aligned with Parsons Ave., SE	12/11/14	*		*		*		*		
0061	Good Hope Road and Welsh Memorial Bridge	N/A									
007	Between 11 th St. and Anacostia Bridges, SE	12/11/14	*		*		*		*		
009	O St. Sewage Pumping Station, SE	12/01/14	*		*		*		*		
010	O St. Sewage Pumping Station, SE	12/01/14	*			*			*		
011	Main Sewage Pumping Station, SE	12/01/14	*			*			*		
011(a)	Main Sewage Pumping Station, SE	12/01/14	*		*		*		*		
012	Main Sewage Pumping Station, SE	12/01/14	*		*		*		*		
013	Southeast Federal Center, aligned with 4 th St.	N/A									Construction for Clean Rivers Project
014	Navy Yard, aligned with 6 th St., SE	12/01/14	*		*		*		*		
015	Navy Yard, aligned with 9th Street, SE	12/01/14	*			*			*		

			Oi Cor	utfall dition	Tide Pros	Gate	Tid Cor	e Gate	CS	O Sian	
			Con	Needs	1705		00	Needs	Co	Needs	
NPDES Outfall	Location	Date Inspected	ОК	Work	Yes	No	ОК	Work	ОК	Work	Notes, Work Needed or Performed
016	12th and O Streets, SE	12/01/14	*		*		*		*		
017	M and Water Street, SE	12/01/14	*		*		*		*		
018	East of Barney Circle & South of Pennsylvania Avenue Bridge, SE	12/01/14	*		*		*		*		
019	Adjacent to Service Drive behind swirl facility & D.C. General Hospital	12/01/14	*			*			*		
020	Rock Creek Parkway and Independence, NW	12/23/14	*		*		*		*		
021	Rock Creek Parkway and C St., NW	12/23/14	*			*			*		
022	Rock Creek Parkway and G St., NW	12/18/14	*		*		*		*		
024	South of 30 th and K Streets, NW ¹	12/18/14	*		*		*		*		
025	South of 31 st and K Streets, NW	12/18/14	*		*		*		*		
026	Wisconsin Avenue and Water Street, NW	12/18/14	*		*			*	*		Need DMS to weld part of the gate.
027	33 rd and Water Sts., NW	12/18/14	*			*			*		
028	Key Bridge and Whitehurst Freeway, NW	12/18/14	*			*			*		
029	Adjacent to C&O Canal, aligned with 38 th St. NW	12/18/14	*		*		*		*		
0311	Rock Creek Pkwy & Pennsylvania Avenue, NW	N/A									

			Oi Cor	utfall dition	Tide Pres	Gate	Tid Cor	e Gate	CS	O Sign	
			COI	Needs	1705		001	Needs	CD	Needs	
NPDES		Date	ОК	Work	Yes	No	ОК	Work	ОК	Work	
Outfall	Location	Inspected									Notes, Work Needed or Performed
032	26th and M Street, NW.	12/22/14	*			*			*		
033	Across street from St. Francis Jr. High and aligned with N St., NW.	12/22/14	*		*		*		*		
034	Just west of St. Francis Jr. High and north of N St., NW	12/19/14	*		*		*		*		
035	P St. Bridge and Rock Creek Parkway	12/19/14	*			*			*		
036	22nd Street, South of Q Street NW.	12/23/14	*		*		*		*		
037 ¹	Waterside Dr. and Rock Creek Parkway	N/A									
038	Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW.	12/11/14	*		*		*		*		
039	Connecticut Avenue Bridge and Rock Creek Parkway, NW.	12/03/14	*		*		*		*		
040	Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge.	12/03/14	*		*		*		*		
041	Beach Dr. and Ontario Pl., NW	12/18/14	*		*		*		*		
042	Harvard St. and Beach Dr NW.	12/18/14	*		*		*		*		
043	Upstream of Harvard St. and Beach Dr NW.	12/18/14	*		*		*		*		
044	Kenyon Street and Beach Dr., NW.	12/18/14	*		*		*		*		
045	North of Beach Dr. and Walbridge Pl, NW.	12/18/14	*		*		*		*		

				utfall dition	Tide Prov	Gate	Tid Cor	e Gate	CS	0 Sign	
			00	Needs	Tres	eni?	Cor	Needs	C5	Needs	
NPDES Outfall	Location	Date Inspected	ОК	Work	Yes	No	ОК	Work	ОК	Work	Notes, Work Needed or Performed
046	Piney Branch Parkway and Park Road, NW.	12/10/14	*			*			*		
047	Piney Branch Parkway and Ingleside Terrace	12/10/14	*		*		*		*		
048	South of Piney Branch Parkway and 17 th St.	12/10/14	*		*		*		*		
049	North of Piney Branch Parkway and 17 th St.	12/10/14	*		*		*		*		
050	Rock Creek Parkway and L St., NW	12/12/14	*		*		*		*		
051	Across Rock Creek Pkwy, aligned with Olive St., NW.	12/23/14	*		*		*		*		
052	Between P & Penna. Ave Bridges, aligned with O Street, NW.	12/23/14	*		*		*		*		
053 ¹	Q St. Bridge and Rock Creek Parkway, NW.	N/A									
054	Massachusetts Ave & Rock Creek Parkway, NW.	12/22/14	*		*		*		*		
056 ¹	Normanstone Dr. and Rock Creek Parkway, NW.	N/A									
057 ¹	28th Street and Rock Creek Parkway, NW	N/A									
058 ¹	Connecticut Ave & Rock Creek Parkway, NW.	N/A									
060	North of P St. Bridge & Rock Creek Pkwy, NW	12/23/14	*		*		*		*		
APPENDIX 2-5

Inspection and Maintenance Summaries: Pumping Stations

Pumping station operations are summarized in the table below.

Pumping Stations – Inspections and Equipment in Service January 2014

Pumping	No. of	No.	No.	Screens or Pumps			
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Schedule to Restore to Service ¹
Main	31	4	10	#1 Sanitary Pump	January 1-31	Pump being rehabbed	April 2014
East Side	24	2	4	None			
Poplar Point	24	2	3	#1 Screen	January 1-31	Screen being rehabbed	June 2014
Potomac	31	4	5	#2 Sanitary Pump	January 1-31	Pump being rehabbed	June 2014
				#3 Screen	January 1-31	Screen being rehabbed	June 2014

Notes:

Pumping Stations – Preventive Maintenance January 2014

		Type of Preventive Maintenance	
Pumping Station	Date Performed	$Performed^{l}$	Comments
Main	1/15	Group A	Add oil, grease bearings and replace packing if needed.
O St	1/15	Group A	Add oil, grease bearings and replace packing if needed.
East Side	1/15	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	1/15	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	1/15	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	1/15	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	1/15	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	1/15	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

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

Check all safety equipment

Pumping Stations – Pumpage January 2014

	Sanitary Pı	ımpage	Storm Water/CSO Pumped To Anacostia River			
	Total Wastewater	Daily Average			Screenings Collected	
Pumping Station	(mg)	Wastewater (mg)	Date	Volume (mg)	$(units)^{l}$	
Main	2,018.80	65.12	N/A	N/A	N/A	
O St	144.80	4.67	N/A	N/A	Normal	
East Side	260.19	8.39	N/A	N/A	N/A	
Poplar Point	617.85	19.93	N/A	N/A	N/A	
Potomac	3,827.20	123.46	N/A	N/A	N/A	
Rock Creek	181.67	5.86	N/A	N/A	N/A	
Upper Anacostia	153.13	4.94	N/A	N/A	N/A	
Earle Place	0.21	0.01	N/A	N/A	N/A	

Notes: 1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping station operations are summarized in the table below.

Pumping	No. of	No.	No.	Screens or Pumps			
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Schedule to Restore to Service ¹
Main	28	4	10	#1 Sanitary Pump	February 1-28	Pump being rehabbed	April 2014
East Side	19	2	4	#1 Screen	February 21-28	Screen being rehabbed	May 2014
Poplar Point	19	2	3	#1 Screen	February 1-28	Screen being rehabbed	June 2014
Potomac	28	4	5	#2 Sanitary Pump #3 Screen	February 1-28 February 1-28	Pump being rehabbed Screen being rehabbed	June 2014 June 2014

Pumping Stations – Inspections and Equipment in Service February 2014

Notes:

Pumping Stations – Preventive Maintenance February 2014

		Type of Preventive Maintenance	
Pumping Station	Date Performed	$Performed^{1}$	Comments
Main	2/17	Group A	Add oil, grease bearings and replace packing if needed.
O St	2/17	Group A	Add oil, grease bearings and replace packing if needed.
East Side	2/17	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	2/17	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	2/17	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	2/17	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	2/17	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	2/17	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

2. 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

Pumping Stations – Pumpage February 2014

	Sanitary Pı	ımpage	Storm Water/CSO Pumped To Anacostia River			
	Total Wastewater	Daily Average			Screenings Collected	
Pumping Station	(<i>mg</i>)	Wastewater (mg)	Date	Volume (mg)	$(units)^{l}$	
Main	1,628.30	58.15	N/A	N/A	N/A	
O St	119.71	4.28	2/4	27.72	Normal	
East Side	307.50	10.98	N/A	N/A	N/A	
Poplar Point	611.73	21.85	N/A	N/A	N/A	
Potomac	3,937.20	140.61	N/A	N/A	N/A	
Rock Creek	168.33	6.01	N/A	N/A	N/A	
Upper Anacostia	141.67	5.06	N/A	N/A	N/A	
Earle Place	0.23	0.01	N/A	N/A	N/A	

Notes: 1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping station operations are summarized in the table below.

Pumping	No. of	No.	No.	Screens or Pumps			
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Schedule to Restore to Service ¹
Main	31	4	10	#1 Sanitary Pump	March 1-31	Pump being rehabbed	April 2014
East Side	24	2	4	#1 Screen	March 1-31	Screen being rehabbed	May 2014
Poplar Point	24	2	3	#1 Screen	March 1-31	Screen being rehabbed	June 2014
Potomac	24	4	5	#2 Sanitary Pump	March 1-31	Pump being rehabbed	June 2014
				#3 Screen	March 1-31	Screen being rehabbed	June 2014
				#2 Screen	March 31	Screen being rehabbed	May 2014

Pumping Stations – Inspections and Equipment in Service March 2014

Notes:

Pumping Stations – Preventive Maintenance March 2014

		Type of Preventive Maintenance	
Pumping Station	Date Performed	$Performed^{l}$	Comments
Main	3/10	Group A	Add oil, grease bearings and replace packing if needed.
O St	3/10	Group A	Add oil, grease bearings and replace packing if needed.
East Side	3/10	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	3/10	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	3/10	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	3/10	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	3/10	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	3/10	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

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

Check all safety equipment

Pumping Stations – Pumpage March 2014

	Sanitary Pı	ımpage	Storm Water/CSO Pumped To Anacostia River			
	Total Wastewater	Daily Average			Screenings Collected	
Pumping Station	(mg)	Wastewater (mg)	Date	Volume (mg)	$(units)^{l}$	
Main	1,785.00	57.58	N/A	N/A	N/A	
O St	133.88	4.32	3/29	14.2	Normal	
			3/30	57.1	Normal	
East Side	305.06	9.84	N/A	N/A	N/A	
Poplar Point	669.78	21.61	N/A	N/A	N/A	
Potomac	4,062.80	131.06	N/A	N/A	N/A	
Rock Creek	201.67	6.51	N/A	N/A	N/A	
Upper Anacostia	151.88	4.90	N/A	N/A	N/A	
Earle Place	0.26	0.01	N/A	N/A	N/A	

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping station operations are summarized in the table below.

Pumping	No. of	No.	No.	Screens or Pumps			
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Schedule to Restore to Service ¹
Main	30	4	10	#1 Sanitary Pump	April 1-16	Pump being rehabbed	Restored April 17, 2014
				#1 Screen	April 1-9	Screen being rehabbed	Restored April 10, 2014
			#4 Screen	April 1-30	Screen being rehabbed	July 2014	
East Side	22	2	4	#1 Screen	April 1-30	Screen being rehabbed	July 2014
Poplar Point	22	2	3	#1 Screen	April 1-30	Screen being rehabbed	July 2014
Potomac	30	4	5	#2 Sanitary Pump	April 1-30	Pump being rehabbed	May 2014
		i I		#3 Screen	April 1-30	Screen being rehabbed	May 2014
		i I		#2 Screen	April 1-30	Screen being rehabbed	May 2014
				#4 Screen	April 1-2	Screen being rehabbed	Restored April 3, 2014

Pumping Stations – Inspections and Equipment in Service April 2014

Notes:

Pumping Stations – Preventive Maintenance April 2014

		Type of Preventive Maintenance	
Pumping Station	Date Performed	$Performed^{l}$	Comments
Main	4/15/14	Group A	Add oil, grease bearings and replace packing if needed.
O St	4/15/14	Group A	Add oil, grease bearings and replace packing if needed.
East Side	4/15/14	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	4/15/14	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	4/15/14	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	4/15/14	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	4/15/14	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	4/15/14	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

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

Check all safety equipment

Pumping Stations – Pumpage April 2014

	Sanitary Pı	ımpage	Storm Water/CSO Pumped To Anacostia River			
	Total Wastewater	Daily Average			Screenings Collected	
Pumping Station	(mg)	Wastewater (mg)	Date	Volume (mg)	$(units)^{l}$	
Main	2,275.70	75.86	N/A	N/A	N/A	
O St	170.91	5.70	4/15/2014	75.18	Normal	
			4/25/2014	2.10	Normal	
			4/29/2014	8.82	Normal	
			4/30/2014	147.40	Normal	
East Side	298.19	9.94	N/A	N/A	N/A	
Poplar Point	647.08	21.56	N/A	N/A	N/A	
Potomac	3,891.10	129.70	N/A	N/A	N/A	
Rock Creek	240.00	8.0	N/A	N/A	N/A	
Upper Anacostia	151.30	5.06	N/A	N/A	N/A	
Earle Place	0.27	0.01	N/A	N/A	N/A	

Notes: 1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping station operations are summarized in the table below.

Pumping	No. of	No.	No.	Screens or Pumps			
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Schedule to Restore to Service ¹
Main	31	4	10	#4 Screen	May 1-31	Screen being rehabbed	July 2014
East Side	30	2	4	#1 Screen	May 1-31	Screen being rehabbed	July 2014
Poplar Point	30	2	3	#1 Screen	May 1-31	Screen being rehabbed	July 2014
Potomac	31	4	5	#2 Sanitary Pump	May 1-2	Pump being rehabbed	Restored May 3, 2014
				#3 Screen	May 1	Screen being rehabbed	Restored May 2, 2014
				#2 Screen	May 1-2	Screen being rehabbed	Restored May 3, 2014

Pumping Stations – Inspections and Equipment in Service May 2014

Notes:

Pumping Stations – Preventive Maintenance May 2014

		Type of Preventive Maintenance	
Pumping Station	Date Performed	$Performed^{1}$	Comments
Main	5/15	Group A	Add oil, grease bearings and replace packing if needed.
O St	5/15	Group A	Add oil, grease bearings and replace packing if needed.
East Side	5/15	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	5/15	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	5/15	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	5/15	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	5/15	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	5/15	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

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

Check all safety equipment

Pumping Stations – Pumpage May 2014

	Sanitary Pı	ımpage	Storm Water/CSO Pumped To Anacostia River			
	Total Wastewater	Daily Average			Screenings Collected	
Pumping Station	(mg)	Wastewater (mg)	Date	Volume (mg)	$(units)^{l}$	
Main	1,870.40	60.34	N/A	N/A	N/A	
O St	149.18	4.81	5/16/2014	94.50	Normal	
			5/27/2014	18.06	Normal	
East Side	336.06	10.84	N/A	N/A	N/A	
Poplar Point	687.78	22.19	N/A	N/A	N/A	
Potomac	4,692.00	151.35	N/A	N/A	N/A	
Rock Creek	320.00	10.32	N/A	N/A	N/A	
Upper Anacostia	181.88	5.87	N/A	N/A	N/A	
Earle Place	0.35	0.01	N/A	N/A	N/A	

Notes: 1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping station operations are summarized in the table below.

Pumping Stations – Inspections and Equipment in Service June 2014

Pumping	No. of	No.	No.	Screens or Pumps			
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Schedule to Restore to Service ¹
Main	30	4	10	#4 Screen	June 1-30	Screen being rehabbed	July 2014
East Side	19	2	4	#1 Screen	June 1-30	Screen being rehabbed	July 2014
Poplar Point	19	2	3	#1 Screen	June 1-30	Screen being rehabbed	July 2014
Potomac	30	4	5	None			

Notes:

Pumping Stations – Preventive Maintenance June 2014

		<i>Type of Preventive Maintenance</i>	
Pumping Station	Date Performed	$Performed^{l}$	Comments
Main	6/9	Group A	Add oil, grease bearings and replace packing if needed.
O St	6/9	Group A	Add oil, grease bearings and replace packing if needed.
East Side	6/9	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	6/9	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	6/9	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	6/9	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	6/9	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	6/9	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

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

Check all safety equipment

Pumping Stations – Pumpage June 2014

	Sanitary Pı	ımpage	Storm Water/CSO Pumped To Anacostia River			
	Total Wastewater	Daily Average			Screenings Collected	
Pumping Station	(<i>mg</i>)	Wastewater (mg)	Date	Volume (mg)	$(units)^{l}$	
Main	1,623.30	54.11	N/A	N/A	N/A	
O St	126.00	4.20	6/10/14	67.20	Normal	
			6/11/14	26.40	Normal	
			6/25/14	18.48	Normal	
East Side	270.81	9.03	N/A	N/A	N/A	
Poplar Point	637.47	21.25	N/A	N/A	N/A	
Potomac	4,013.10	133.77	N/A	N/A	N/A	
Rock Creek	178.33	5.94	N/A	N/A	N/A	
Upper Anacostia	111.67	3.72	N/A	N/A	N/A	
Earle Place	0.28	0.01	N/A	N/A	N/A	

Notes: 1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping station operations are summarized in the table below.

Pumping	No. of	No.	No.	Screens or Pumps						
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Schedule to Restore to Service ¹			
Main	31	4	10	#4 Screen	July 1-31	Screen being rehabbed	September 2014			
East Side	25	2	4	#1 Screen	July 1-31	Screen being rehabbed	September 2014			
Poplar Point	25	2	3	#1 Screen	July 1-31	Screen being rehabbed	September 2014			
Potomac	31	4	5	None						

Pumping Stations – Inspections and Equipment in Service July 2014

Notes:

Pumping Stations – Preventive Maintenance July 2014

		Type of Preventive Maintenance	
Pumping Station	Date Performed	$Performed^{1}$	Comments
Main	7/2/14	Group A	Add oil, grease bearings and replace packing if needed.
O St	7/2/14	Group A	Add oil, grease bearings and replace packing if needed.
East Side	7/2/14	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	7/2/14	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	7/2/14	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	7/2/14	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	7/2/14	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	7/2/14	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

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

Check all safety equipment

Pumping Stations – Pumpage July 2014

	Sanitary Pı	ımpage	Storm Water/CSO Pumped To Anacostia River			
	Total Wastewater	Daily Average			Screenings Collected	
Pumping Station	(<i>mg</i>)	Wastewater (mg)	Date	Volume (mg)	$(units)^{l}$	
Main	1,595.29	51.46	N/A	N/A	N/A	
O St	144.50	4.66	7/10/2014	21.42	Normal	
			7/14/2014	8.0	Normal	
			7/15/2014	45.4	Normal	
East Side	229.13	7.39	N/A	N/A	N/A	
Poplar Point	706.32	22.78	N/A	N/A	N/A	
Potomac	3,911.10	126.16	N/A	N/A	N/A	
Rock Creek	170.83	5.51	N/A	N/A	N/A	
Upper Anacostia	164.79	5.32	N/A	N/A	N/A	
Earle Place	0.31	0.01	N/A	N/A	N/A	

<u>Notes:</u> 1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping station operations are summarized in the table below.

Pumping	No. of	No.	No.	Screens or Pumps	!		
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Schedule to Restore to Service ¹
Main	31	4	10	#4 Screen	August 1-31	Screen being rehabbed	September 2014
East Side	22	2	4	#1 Screen	August 1-31	Screen being rehabbed	September 2014
Poplar Point	22	2	3	#1 Screen	August 1-31	Screen being rehabbed	September 2014
Potomac	31	4	5	None	1		

Pumping Stations – Inspections and Equipment in Service August 2014

Notes:

Pumping Stations – Preventive Maintenance August 2014

		<i>Type of Preventive Maintenance</i>	
Pumping Station	Date Performed	$Performed^{l}$	Comments
Main	8/8	Group A	Add oil, grease bearings and replace packing if needed.
O St	8/8	Group A	Add oil, grease bearings and replace packing if needed.
East Side	8/8	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	8/8	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	8/8	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	8/8	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	8/8	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	8/8	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

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

Check all safety equipment

Pumping Stations – Pumpage August 2014

	Sanitary Pı	ımpage	Storm Water/CSO Pumped To Anacostia River			
	Total Wastewater	Daily Average			Screenings Collected	
Pumping Station	(<i>mg</i>)	Wastewater (mg)	Date	Volume (mg)	$(units)^{I}$	
Main	1,410.00	45.48	N/A	N/A	N/A	
O St	131.10	4.23	8/12	103.23	Normal	
East Side	223.56	7.21	N/A	N/A	N/A	
Poplar Point	665.55	21.47	N/A	N/A	N/A	
Potomac	3,807.30	122.82	N/A	N/A	N/A	
Rock Creek	168.33	5.43	N/A	N/A	N/A	
Upper Anacostia	154.38	4.98	N/A	N/A	N/A	
Earle Place	0.16	0.01	N/A	N/A	N/A	

Notes: 1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping station operations are summarized in the table below.

Pumping	No. of	No.	No.	Screens or Pumps			
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Schedule to Restore to Service ¹
Main	30	4	10	#4 Screen	September 1-20	Screen being rehabbed	September 21, 2014
				#4 Pump	September 1-30	Pump being rehabbed	December 2014
East Side	21	2	4	#1 Screen	September 1-22	Screen being rehabbed	September 23, 2014
Poplar Point	21	2	3	#1 Screen	September 1-25	Screen being rehabbed	September 26, 2014
Potomac	30	4	5	None			

Pumping Stations – Inspections and Equipment in Service September 2014

Notes:

Pumping Stations – Preventive Maintenance September 2014

		<i>Type of Preventive Maintenance</i>	
Pumping Station	Date Performed	$Performed^{l}$	Comments
Main	9/15	Group A	Add oil, grease bearings and replace packing if needed.
O St	9/15	Group A	Add oil, grease bearings and replace packing if needed.
East Side	9/15	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	9/15	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	9/15	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	9/15	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	9/15	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	9/15	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

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

Check all safety equipment

	Sanitary Pı	ımpage	Storm Water/CSO Pumped To Anacostia River				
	Total Wastewater	Daily Average			Screenings Collected		
Pumping Station	(mg)	Wastewater (mg)	Date	Volume (mg)	$(units)^{l}$		
Main	1,318.40	43.95	N/A	N/A	N/A		
O St	120.80	4.03	9/25	58.0	Normal		
East Side	225.69	7.52	N/A	N/A	N/A		
Poplar Point	621.99	20.73	N/A	N/A	N/A		
Potomac	3,654.80	121.83	N/A	N/A	N/A		
Rock Creek	145.00	4.83	N/A	N/A	N/A		
Upper Anacostia	149.58	4.99	N/A	N/A	N/A		
Earle Place	0.11	0.00	N/A	N/A	N/A		

Pumping Stations – Pumpage September 2014

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping station operations are summarized in the table below.

Pumping Stations – Inspections and Equipment in Service October 2014

Pumping	No. of	No.	No.	Screens or Pumps			
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Schedule to Restore to Service ¹
Main	31	4	10	#1Pump	10/2/14	Pump being rehabbed	January 2015
				#4 Pump	10/2/14	Pump being rehabbed	February 2015
East Side	31	2	4	None			
			<u> </u>				
Poplar Point	31	2	3	None			
Potomac	31	4	5	#2screen #2Pump	10/2/14 10/3/14	Rope stuck in screen VFD Problem	October 3,2014 October 9,2014

Notes:

Pumping Stations – Preventive Maintenance October 2014

		<i>Type of Preventive Maintenance</i>	
Pumping Station	Date Performed	$Performed^{l}$	Comments
Main	10/05/2014	Group A	Add oil, grease bearings and replace packing if needed.
O St	10/05/2014	Group A	Add oil, grease bearings and replace packing if needed.
East Side	10/05/2014	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	10/05/2014	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	10/05/2014	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	10/05/2014	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	10/05/2014	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	10/05/2014	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

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

Check all safety equipment

Pumping Stations – Pumpage October 2014

	Sanitary Pı	ımpage	Storm Water/CSO Pumped To Anacostia River		
	Total Wastewater	Daily Average			Screenings Collected
Pumping Station	(mg)	Wastewater (mg)	Date	Volume (mg)	$(units)^{l}$
Main	1,421.70	45.86	N/A	N/A	N/A
O St	130.05	4.20	Oct 15 / 2014	462.00	Normal
			Oct 22 / 2014	138.60	
East Side	278.21	8.97	N/A	N/A	N/A
Poplar Point	649.30	20.95	N/A	N/A	N/A
Potomac	3,891.60	125.54	N/A	N/A	N/A
Rock Creek	154.87	5.00	N/A	N/A	N/A
Upper Anacostia	157.57	5.08	N/A	N/A	N/A
Earle Place	0.12	0.00	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping station operations are summarized in the table below.

Pumping	No. of	No.	No.	Screens or Pumps			
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Schedule to Restore to Service ¹
Main	30	4	10	#1pump	11/1/14	Pump being Rehabbed	January 2015
				#4pump	11/1/14	Pump being Rehabbed	February 2015
East Cida	20	2	4	Nege			
East Side	30	Z	4	None			
Poplar Point	30	2	3	None			
Potomac	30	4	5	#1screen	11/5/14	Rope stuck in screen/power lost	11/11/14
				#3pump	11/23/14	VFD problem	12/10/14

Pumping Stations – Inspections and Equipment in Service November 2014

Notes:

Pumping Stations – Preventive Maintenance November 2014

		<i>Type of Preventive Maintenance</i>	
Pumping Station	Date Performed	$Performed^{l}$	Comments
Main	11/12/14	Group A	Add oil, grease bearings and replace packing if needed.
O St	11/12/14	Group A	Add oil, grease bearings and replace packing if needed.
East Side	11/12/14	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	11/12/14	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	11/12/14	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	11/12/14	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	11/12/14	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	11/12/14	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

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

Check all safety equipment

Pumping Stations – Pumpage November 2014

	Sanitary Pı	ımpage	Storm Water/CSO Pumped To Anacostia River		
	Total Wastewater	Daily Average			Screenings Collected
Pumping Station	(mg)	Wastewater (mg)	Date	Volume (mg)	$(units)^{l}$
Main	1,315.00	43.83	N/A	N/A	N/A
O St	120.10	4.00	11/26/14	54.60	Normal
East Side	232.20	7.74	N/A	N/A	N/A
Poplar Point	646.30	21.54	N/A	N/A	N/A
Potomac	3,483.00	116.10	N/A	N/A	N/A
Rock Creek	300.60	10.02	N/A	N/A	N/A
Upper Anacostia	216.50	7.22	N/A	N/A	N/A
Earle Place	0.14	0.00	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

Pumping station operations are summarized in the table below.

Pumping	No. of	No.	No.	Screens or Pumps			_
Station	Inspections	Screens	Pumps	Out of Service	Dates	Reason	Schedule to Restore to Service ¹
Main	31	4	10	#1 Pump	12/1/14	Pump being rehabbed	January 2015
				#4 Pump	12/1/14	Pump being rehabbed	February 2015
East Side	8	2	4	None			
Poplar Point	8	2	3	None			
Potomac	31	4	5	#3 Pump	12/1/14	VFD problem	12/10/14

Pumping Stations – Inspections and Equipment in Service December 2014

Notes:
Pumping Stations – Preventive Maintenance December 2014

		<i>Type of Preventive Maintenance</i>	
Pumping Station	Date Performed	$Performed^{l}$	Comments
Main	12/3/14	Group A	Add oil, grease bearings and replace packing if needed.
O St	12/3/14	Group A	Add oil, grease bearings and replace packing if needed.
East Side	12/3/14	Group A	Add oil, grease bearings and replace packing if needed.
Poplar Point	12/3/14	Group A	Add oil, grease bearings and replace packing if needed.
Potomac	12/3/14	Group A	Add oil, grease bearings and replace packing if needed.
Rock Creek	12/3/14	Group A	Add oil, grease bearings and replace packing if needed.
Upper Anacostia	12/3/14	Group A	Add oil, grease bearings and replace packing if needed.
Earle Place	12/3/14	Group A	Add oil, grease bearings and replace packing if needed.

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

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

Check all safety equipment

Issue work order requests as required

Pumping Stations – Pumpage December 2014

	Sanitary Pumpage		Storm Water/CSO Pumped To Anacostia River		
	Total Wastewater	Daily Average			Screenings Collected
Pumping Station	(mg)	Wastewater (mg)	Date	Volume (mg)	$(units)^{I}$
Main	1,502.30	48.46	N/A	N/A	N/A
O St	136.50	4.40	12/08/14	4.80	Normal
East Side	229.98	38.33	N/A	N/A	N/A
Poplar Point	645.74	107.62	N/A	N/A	N/A
Potomac	3,866.30	124.72	N/A	N/A	N/A
Rock Creek	603.13	100.52	N/A	N/A	N/A
Upper Anacostia	148.85	24.81	N/A	N/A	N/A
Earle Place	0.26	0.04	N/A	N/A	N/A

Notes:

1. Screening consists of vertical trash racks, with no mechanical cleaning. Quantification of captured materials is not possible on monthly basis.

APPENDIX 2-6

Inspection and Maintenance Summaries: Northeast Boundary Swirl Facility

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:

			Screens or			
Date	#		Swirls Out of			
Inspected	Screens	# Swirls	Service	Dates	Reason	Schedule to Restore to Service
01/9/2014	1, 2 & 3	1, 2 & 3	None	N/A	N/A	N/A
2/4/2014	1, 2 & 3	1, 2 & 3	None	N/A	N/A	N/A
3/11/2014	1, 2 & 3	1, 2 & 3	None	N/A	N/A	N/A
4/17/2014	1, 2 & 3	1, 2 & 3	None	N/A	N/A	N/A
05/12/14	1, 2 & 3	1, 2 & 3	None	N/A	N/A	N/A
06/06/14	1, 2 & 3	1, 2 & 3	None	N/A	N/A	N/A
07/09/14	1,2&3	1, 2 & 3	None	N/A	N/A	N/A
08/11/14	1, 2 & 3	1, 2 & 3	None	N/A	N/A	N/A
09/18/14	1, 2 & 3	1, 2 & 3	None	N/A	N/A	N/A
10/05/14	1, 2 & 3	1, 2 & 3	None	N/A	N/A	N/A
11/19/14	1, 2 & 3	1, 2 & 3	None	N/A	N/A	N/A
12/07/14	1, 2 & 3	1, 2 & 3	None	N/A	N/A	N/A

Northeast Boundary Swirl Facility – Inspections and Equipment in Service - 2014

Northeast Boundary Swirl Facility – Preventive Maintenance - 2014

Date		
Performed	Type of Preventive Maintenance Performed	Comments
01/09/14	Group A	
02/04/14	Group A	
03/11/14	Group A	
04/17/14	Group A	
05/12/14	Group A	
06/06/14	Group A	
07/09/14	Group A	
08/15/14	Group A	
09/19/14	Group A	
10/05/14	Group A	
11/19/14	Group A	
12/07/14	Group A	

APPENDIX 2-7

Inspection and Maintenance Summaries: Inflatable Dams

Inflatable Dams

The objective of the inflatable dam installation is to increase the effective depth to which the sewage must rise in the combined sewer before overflow occurs.

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Inflatable Dam Structure No	Date Inspected	Was Dam Out of Service During the Month?	Dates out of Service	Reason	Schedule to Restore to Service
14 - East	01/27, 2/28,3/20,4/28, 5/26, 6/10, 7/31, 8/27, 9/29, 10/31, 11/13, 12/30	No	N/A	N/A	N/A
14 - West	01/27, 2/28,3/20,4/28, 5/26, 6/10, 7/31, 8/27, 9/29, 10/31, 11/13, 12/30	No	N/A	N/A	N/A
15	01/27, 2/28,3/20,4/28, 5/26, 6/10, 7/31, 8/27, 9/29, 10/31, 11/13, 12/30	No	N/A	N/A	N/A
15A	01/27, 2/28,3/20,4/28, 5/26, 6/10, 7/31, 8/27, 9/29, 10/31, 11/13, 12/30	No	N/A	N/A	N/A
16 - East	01/27, 2/28,3/20,4/28, 5/26, 6/10, 7/31, 8/27, 9/29, 10/31, 11/13, 12/30	No	N/A	N/A	N/A
16 - West	01/27, 2/28,3/20,4/28, 5/26, 6/10, 7/31, 8/27, 9/29, 10/31, 11/13, 12/30	No	N/A	N/A	N/A
24 - North	01/27, 2/28,3/20,4/28, 5/26, 6/10, 7/31, 8/27, 9/29, 10/31, 11/13, 12/30	No	N/A	N/A	N/A
24 - Middle	01/27, 2/28,3/20,4/28, 5/26, 6/10, 7/31, 8/27, 9/29, 10/31, 11/13, 12/30	No	N/A	N/A	N/A
24 - South	01/27, 2/28,3/20,4/28, 5/26, 6/10, 7/31, 8/27, 9/29, 10/31, 11/13, 12/30	No	N/A	N/A	N/A
34	01/27, 2/28,3/20,4/28, 5/26, 6/10, 7/31, 8/27, 9/29, 10/31, 11/26, 12/30	Yes	9/12	Blower Failure	9/12
35	01/27, 2/28,3/20,4/28, 5/26, 6/10, 7/31, 8/27, 9/29, 10/31, 11/26, 12/30	Yes	5/21-7/11 & 7/23	Testing & Evaluation	7/11 & 7/23
			9/11	Transducer failure	9/11
52	01/27, 2/28,3/20,4/28, 5/27, 6/10, 7/31, 8/27, 9/29, 10/31, 11/26, 12/30	No	N/A	N/A	N/A

Section 3 Maximize Use of Collection System for Storage

3.1 NPDES PERMIT REQUIREMENTS

For this NMC, the NPDES permit requires that DC Water operate and maintain the inflatable dams to maximize storage in the CSS.

3.2 INFLATABLE DAM OPERATION

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 based on a signal from an upstream level sensor. During dry weather conditions the dams are normally maintained fully inflated under low pressure.

Inspection and maintenance of the inflatable dams as reported in quarterly reports to EPA Region III are included in Section 2.

Section 4 Pretreatment Program

4.1 NPDES PERMIT REQUIREMENTS

The NPDES Permit requires the following:

- Use pretreatment regulations to control any industrial discharges that may be identified as impacting CSOs
- Use pretreatment regulations to require permitted significant industrial users (SIUs) discharging directly to the CSS to establish management practices to limit (e.g., use of control, detention or prohibition) batch discharges during wet weather conditions to the maximum extent feasible. Conduct an annual inspection of the above users to identify the existence of any batch discharges. Evaluate batch discharges identified to determine whether and to what extent limitations are appropriate during wet weather, taking into consideration volume, frequency, characteristics and the need to protect life and property.
- Prepare an Annual Report by March 31 of each year addressing the following items for the prior calendar year:
 - Industrial Listing
 - Control Mechanism Issuance
 - Sampling and Inspection
 - o Industrial User (IU) Compliance and POTW Enforcement
 - Summary of POTW Operations
 - Pretreatment Program Changes
 - Signatory Requirement

4.2 INDUSTRIAL DISCHARGES IMPACTING CSOs

As part of the development of its Long Term Control Plan (LTCP), DC Water conducted an extensive sampling program for CSO overflows. Toxic or other parameters typical of industrial discharges were not found to be impacting CSOs. Indeed, the concentration of metals and other parameters in CSOs was found to be similar to the concentrations of those parameters in storm water runoff. This suggested that the source of these parameters was urban runoff.

4.3 ANNUAL REPORT

DC Water generates and submits a Pretreatment Program Annual Report to the EPA Region III by March 31st of each year. This report is submitted to EPA under separate cover. Only Part B of the Annual Report is provided here as Appendix 4-1 and the Attachment 6 referred in it is not included for brevity.

4.4 SIGNIFICANT INDUSTRIAL USERS

Based on annual inspections performed by DC Water's Pretreatment and Lab Section, the SIUs in Table 4-1 have been identified to be within the CSS area. The location of each SIU is shown on Figure 4-1.





#	Permit	Industrial User	Facility Address	Batch/Intermittent
	No.			Discharges
1	029	Alsco	713 Lamont Street, NW Washington, DC 20010	None
2	011	Amtrak	1401 W Street, NE Washington, DC 20018	Train Wash
3	054	Amtrak – High Speed Rail	1401 W St., NE Washington, DC 20018	Train Wash
4	022	Capitol Power Plant	25 E St., SE Washington, DC 20003	None
5	039	Greenpenz, LLC	2500 Virginia Ave., NW Washington, DC 20037	None (no report required groundwater only)
6	053	WMATA Brentwood Yard	601 T Street, NE Washington, DC 20018	Steam Cleaning/Bus Wash
7	005	WMATA Northern Garage	4615 14th Street, NW Washington, DC 20011	Steam Cleaning/Bus Wash

Table 4-1Significant Industrial Users in CSS Area

WMATA = Washington Metropolitan Area Transit Authority

4.5 SIGNIFICANT INDUSTRIAL USER DISCHARGE PERMIT

In compliance with EPA Region III requirements, DC Water has issued special condition permits to those SIUs discharging to the combined sewer system. These special condition permits have standard language requiring submittal of annual reports (due March 31 of the following year) documenting batch, intermittent, and continuous discharge activity. Based on these reports, DC Water will evaluate the need to place wet weather restrictions on those batch discharges identified, depending on the volume and frequency of their discharge, water quality characteristics, and safety issues.

In addition, the permit requires users to sample the discharge points semiannually and to create and submit a spill prevention/slug control plan that identifies discharge practices, procedures to prevent spills/slugs, procedures to notify DC Water of spills/slugs and control measures to minimize damage from spills/slugs. DC Water also performs annual sampling and inspections of each discharger to confirm compliance with permit requirements.

APPENDIX 4-1

PART B PRETREATMENT DEVELOPMENTS

PART B PRETREATMENT DEVELOPMENTS

I. Summary of POTW Operations

- 1. The Blue Plains Advanced Wastewater Treatment Plant (AWTP) did not have any NPDES permit violations in 2014. Furthermore, there were no instances of major problems (e.g., corrosion, fire or explosive hazards, sewer blockages) in the collection system that may have been attributable to industrial wastes.
- 2. As required by the NPDES permit, plant influent, effluent, and biosolids data for all local limit parameters are submitted to EPA Region III on a quarterly basis with the Discharge Monitoring Reports (DMRs) by the 28th day of the following month. Additionally, a complete priority pollutant scan is conducted annually on the influent and biosolids (lime stabilized MOC Blend). The 2014 influent, effluent, and biosolids concentrations for the local limit pollutants are provided in a summary table in Attachment 6. The annual priority pollutant scans and additional data collected, but not documented in the summary table, are also provided in Attachment 6.

Influent values are calculated based on an estimated flow-weighted average of three contributing waste streams and are reported as "<" if at least one of the individual waste streams was non-detect for that parameter. Influent goals are based on EPA Region III's evaluation of DC Water's local limits published in the DC Register on September 10, 2010. Influent goals were consistently met in 2014, and influent pollutant concentrations have remained fairly consistent with minor fluctuations.

A second sludge process was started up at the Blue Plains AWTP in November 2014, to include thermal hydrolysis (Cambi) followed by anaerobic digestion, and belt filter press. Local limits data for this biosolids product are provided in the summary table in Attachment 6 and on the excel spreadsheet on the Sludge (2) tab.

3. DC Water currently accepts hauled waste from domestic, commercial, and pre-approved industrial sources at the headworks to the Blue Plains AWTP. Additional hauled waste is received from WSSC and Fairfax County at designated septage receiving stations. Table B-1 summarizes the hauled waste contributions to the Blue Plains AWTP. Loudoun Water has a backup septage receiving station that discharges to the Potomac Interceptor (and ultimately to the Blue Plains AWTP) but did not accept hauled waste at this station during 2014. No brine wastes (oil and gas drilling wastes) are accepted at any of the designated septage receiving stations.

All jurisdictions require waste hauler permits, although in Fairfax County, the permit is issued by the Health Department. As of December 31, 2014, DC Water had 16 permitted waste haulers, WSSC had 71 permitted waste haulers, and Fairfax County had 46 permitted waste haulers. DC Water permits require manifest forms, documenting the source and volume of each load, be submitted prior to receiving access to the facility to discharge.

I. Summary of POTW Operations (Continued)

Jurisdiction	Discharge Site	Sources of Wastewater*	Estimated Volume/Mo.	Controls on Users
DC Water	Blue Plains AWTP	Domestic and commercial (portable toilets, domestic holding tanks, sewage ejector pits, grease trap waste, and non-wastewater discharges)	788,490 gal/mo (291 loads)	Manned site, permits, manifests, random sampling
WSSC	Muddy Branch	Domestic and commercial (portable toilets, septic tanks, and grease trap waste) Domestic sewage sludge (Dickerson Generating Station only)	434,427 gal/mo (grease waste) 367,539 gal/mo (septic waste) 15,000 gal/quarter (domestic sludge)	Permits, manifests, restricted hours, surveillance cameras, fines, self-monitoring (sludge)
WSSC	Tanglewood	Domestic	18,683 gal/mo	Permits, manifests, restricted hours, surveillance cameras, fines
WSSC	Montgomery Co. Solid Waste Disposal Site	Industrial - Oaks Sanitary Landfill leachate	Approx 583,000 gal/mo. 80,000 gpd max	SIU permit
Fairfax Co.	Colvin Run	Domestic and commercial (77% septic tanks, 11% portable toilets, 1.3% grease trap waste from restaurants, and 11% car washes)	1,000,000 gal/mo (est.) (530 loads)	Permits (Health Dept), restricted access, random sampling, surveillance cameras

Table B-1. Summary of Hauled Waste Discharged to the Blue Plains AWTP

*Domestic sources of hauled wastewater are primarily septic holding tanks and portable toilets. The majority of commercial wastewater is from grease traps. Other commercial/industrial sources of hauled wastewater are from building sumps/sewage ejector pits and storm runoff (from an off-site biosolids storage facility). Industrial sources of hauled wastewater are landfill leachate from Oaks Sanitary Landfill (80,000 gpd max). Oaks Sanitary Landfill is permitted as a Significant Industrial User by WSSC and the permit contains requirements for monitoring, reporting, and pre-treating their waste.

I. Summary of POTW Operations (Continued)

3. The amount of wastewater received from waste haulers discharging at the Blue Plains AWTP Septage Receiving Facility during 2014 averaged 788,490 gallons or 291 loads per month. Random sampling is conducted by DC Water twice a month and analyzed for pH, oil and grease, total metals, PCBs, and conventional pollutants. Trucked waste must meet local limits. Fifteen notices of violation were issued to haulers in 2014 for exceedances of local limits, typically for pH, copper, and/or zinc. On several occasions, violations for lead, mercury, and petroleum hydrocarbon oil and grease were identified. Typical corrective action is to increase the frequency of the pump-out for the customer with elevated metals concentrations. If a source is identified in violation more than once, then it is banned for disposal at the Blue Plains AWTP, until the user can demonstrate compliance through self-monitoring of the waste.

Many of the SIUs within the District have waste hauled off-site for disposal. Table B-2 summarizes the information updated during the 2014 inspections. Recycled wastes including used oil, fryer oil, and silver recovery waste are not included in this table.

Type of Hauled Waste	Description of Operations	Name(s) of Facilities Used by SIUs for Waste Disposal and Disposal Location (if known)
Oily wastewater/ pretreatment sludge and other non- hazardous waste	Maintenance cleaning activities, treatment residuals, printing	Clean Harbors (Baltimore, MD/Reidsville, NC) Clean Ventures (Cycle Chem/Lewisbury, PA) Combs Industrial Services (Nashville, TN) Environmental Waste Specialist (FCC or Water Depot) FCC (Alexandria, VA) IMS (Norfolk, VA) Magnolia Plumbing (Metrex/Hyattsville, MD) Monarch Environmental Services Northstar Env Group (GCUA, West Deptford, NJ) Pollution Control Industries Safety Kleen (Manassas, VA) Sphinx (Spirit Services in Williamsport, MD) Triumvirate Environmental
Grease trap waste	Treatment residuals	Action Tank and Drain (Fairfax, VA) Adams Liming and Septic Tank (Fairfax, VA) ARFI Burns Septic (WSSC) Clean Harbors (Baltimore, MD) Magnolia Plumbing (WSSC and Blue Plains)
Spent car wash reclaim	Vehicle cleaning activities	Adams Liming and Septic Tank (Fairfax, VA) Capitol Tank and Drain LNT Enterprises Northstar Env Group (GCUA, West Deptford, NJ)
Hazardous waste	Cleaning, lab waste, solvent use, treatment residuals, etc.	Clean Harbors (Baltimore MD/Reidsville, NC) Clean Ventures (Cycle Chem/Lewisbury, PA) EMSI (Env Enterprises/Cincinnati, OH) Tradebe (E. Chicago, IN)

Table B-2. Summary of Hauled Waste from SIUs in the District

II. Pretreatment Program Changes

Staffing, Funding, and Local Limits

There were no significant changes in staffing and funding for the District or contributing user jurisdiction pretreatment programs in 2014. WSSC had two new hires this year. There were no changes to the local limits approved by EPA Region III on May 25, 2010 and adopted by DC Water in a Final Rulemaking published on September 10, 2010.

Streamlining Changes

DC Water submitted a program modification request to EPA Region III on March 25, 2014, which included the following documents:

- DC Final Rulemaking February 10, 2012 (21 DCMR Chapter 15 Wastewater Discharge Regulations;
- DC Water Enforcement Response Plan (March 2014)
- WSSC 2013 Plumbing & Fuel Gas Code;
- WSSC Enforcement Response Plan (April 2013);
- Town of Herndon Pretreatment Ordinance (adopted January 2012);
- Loudoun Water Pretreatment Ordinance (adopted March 5, 2014); and
- Loudoun Water Enforcement Response Plan (March 2014).

EPA Region III indicated that they already had on file the Fairfax County 2010 Pretreatment Ordinance and October 2011 Enforcement Response Plan, as well as the DC Statute (effective October 2010). DC Water received approval from EPA Region III on May 1, 2014, for modifications to the legal authority and enforcement response plans for the District and contributing user jurisdictions to include the required changes from the pretreatment streamlining rule. This was considered a non-substantial program modification.

III. Miscellaneous Developments

Control of Batch Discharges During Wet Weather

As part of the Combined Sewer Overflow (CSO) Nine Minimum Controls, DC Water is required by NPDES permit to 1) use pretreatment regulations to control any industrial discharges that may be identified as impacting CSOs and 2) to require permitted SIUs discharging directly to the CSS to establish management practices to control batch discharges during wet weather conditions whenever possible.

Control of Batch Discharges During Wet Weather (continued)

There are seven (7) SIUs that currently discharge directly to the combined sewer system. A list of these facilities is provided in Table B-3. Each facility has a permit requirement to prepare an annual report identifying all batch discharges to the combined sewer system, with the exception of the Watergate Hotel, currently known as Greenpenz, 2600 Virginia Ave., LLC, which is only permitted for their groundwater remediation system and has a continuous operation. These annual reports were due March 31, 2014. Following DC Water review, it was determined that all SIU discharges were either continuous or intermittent and that none of these discharges met the definition of a batch discharge. Some facilities have voluntarily developed management practices to minimize intermittent discharges during wet weather, but DC Water is not requiring development of management practices to control intermittent discharges at this time, since no pollutants of concern in combined sewer overflows have been attributed to these discharges.

#	Permit No.	Industrial User	Facility Address	Batch/Intermittent Discharges
1	029	Alsco	713 Lamont Street, NW Washington, DC 20010	None
2	011	Amtrak	1401 W Street, NE Washington, DC 20018	Train Wash
3	054	Amtrak – High Speed Rail	1401 W St., NE Washington, DC 20018	Train Wash
4	022	Capitol Power Plant	N. Jersey Ave & E St., SE Washington, DC 20003	None
5	039	Greenpenz	2500 Virginia Ave., NW Washington, DC 20037	None (no report required groundwater only)
6	053	WMATA Brentwood Yard	601 T Street, NE Washington, DC 20018	Steam Cleaning
7	005	WMATA Northern Garage	4615 14th Street, NW Washington, DC 20011	Steam Cleaning/Bus Wash

 Table B-3. Significant Industrial Users Discharging Directly to Combined Sewers

WMATA = Washington Metropolitan Area Transit Authority

Pollution Prevention

DC Water has incorporated pollution prevention (P2) surveys into the routine annual inspections of SIUs. P2 surveys are conducted every two years and significant P2 accomplishments or deficiencies may be noted annually in the inspection report. These surveys were last conducted in 2014. DC Water has ongoing public education efforts to reduce influent mercury concentrations including posting educational content on our website, permitting hospitals in the area (as Non-Significant Industrial Users), and adoption of mercury amalgam Best Management Practices (BMPs) for dental facilities.

Pollution Prevention (continued)

WSSC worked on a number of pollution prevention initiatives in 2014 and continues to promote the following:

- Dental Facility BMPs;
- Implementation of an Oil/Water Separator Initiative with BMP guidelines and inspection program;
- Recommendations for disposal of prescription drugs and outreach on disposal of wipes and other non-flushables; and
- Continuation of the annual Pollution Prevention Award program (awarded to Eaton Corporation in May 2014).

Industrial User Survey

DC Water is actively surveying, sampling, and/or inspecting non-permitted commercial/ industrial users to determine whether facilities should be permitted and assist them in conforming to the District of Columbia municipal regulations on wastewater discharges. DC Water has developed a network of contacts at other agencies in the District of Columbia to obtain information on potential violators including the District Department of Public Works, the Mayor's Neighborhood Service Coordinators, and the District Department of the Environment Hazardous Waste and Water Quality Divisions. In addition, DC Water periodically reviews queries of commercial and federal accounts for new connections and users that consume more than 25,000 gpd of water.

Temporary Discharge Authorizations

As of December 31, 2014, DC Water had 57 active Temporary Discharge Authorization (TDA) permits for discharges to the sanitary or combined sewer system consisting primarily of construction dewatering, façade cleaning, and other miscellaneous discharges. The maximum permit term is two years. Most of these permits require periodic self-monitoring, depending on flow and the characteristics of the wastewater discharge.

IV. Signatory Requirements

The Assistant General Manager (AGM) of Wastewater Treatment has signed Part A of this report. This individual is directly responsible for wastewater treatment plant operations and has been authorized to sign the report by the General Manager (written authorization letter dated November, 1, 2011, and previously submitted to EPA Region III).

Section 5 Maximize Flow to Treatment Plant

5.1 NPDES PERMIT REQUIREMENTS

For this NMC, the NPDES permit requires the following:

- During wet weather, operate the pumping stations and collection system to deliver the maximum flow possible to the BPAWWTP within the constraints of the pumping stations, configuration and capacity of the collection system, and the capacity of the treatment plant.
- Develop a reporting system to show that operation of the pumping stations has been maximized during wet weather and that the maximum flow possible is being delivered to the BPAWWTP for treatment within the constraints of the pumping stations, collection system and treatment plant. Report such operations for each wet weather event.
- Maintain pumps to maximize flow to Blue Plains.
- The permittee shall ensure that the collection system has the capacity to convey flows at a rate totaling atleast 1076 mgd to Blue Plains for treatment.

5.2 PUMPING STATION OPERATION

DC Water operates its pumping stations to deliver the maximum flow possible to BPAWWTP within the constraints of the pumping stations, configuration and capacity of the collection system, and the capacity of the treatment plant. BPAWWTP is currently undergoing a construction program to improve performance and reliability at the facility. During this program, the permit specifies that the plant flow limits during wet weather are as follows:

	Complete Treatment Rate	Excess Flow Treatment Rate	Total
Time Period	(Discharge at Outfall 002)	(Discharge at Outfall 001)	Treatment Rate
First 4 hours	Up to 511 mgd	Up to 336 mgd	Up to 847 mgd
After 4 hours	Up to 450 mgd	Up to 336 mgd	Up to 786 mgd

Appendix 5-1 presents the maximum hourly flow rates at BPAWWTP based on hourly readings. The data demonstrate that the plant is consistently providing complete treatment to more flow than is required by the NPDES permit.

5.3 **REPORTING SYSTEM**

DC Water reports on the operation of the pumping stations that deliver flow to the BPAWWTP in its quarterly CSO reports.

5.4 MAINTAIN PUMPING STATIONS

Documentation of pumping station maintenance and equipment serviceability is included in Section 2, Appendix 2-4.

DC Water has upgraded the pumping stations listed in Table 5-1 below. All stations function at firm capacity.

r unping Station Design Firm Capacities					
Facility	Planned Design Firm Capacity ⁽¹⁾	Deadline for Placing in Operation			
Potomac Pumping Station	460 mgd	Completed			
Main Pumping Station	Sanitary Pumps – 240 mgd	Completed			
O Street Pumping Station	Sanitary Pumps – 45 mgd	Completed			
Poplar Point Pumping Station	45 mgd	Completed			
East Side Pumping Station	45 mgd	Completed			

Table 5-1Pumping Station Design Firm Capacities

Notes:

(1) Firm capacity is the capacity with the largest pump out of service.

5.5 ENSURE COLLECTION SYSTEM HAS 1076 MGD CONVEYANCE CAPACITY

In accordance with the Three Party Consent Decree, DC Water rehabilitated the Blue Plains influent sewers on April 1, 2011. The purpose of the rehabilitation, in part, is to achieve 1076 mgd of conveyance capacity. As noted in our February 8, 2012 letter to Earthjustice with copy to EPA and DOJ, DC Water has concluded that the collection system has the capacity to convey 1,076 mgd to Blue Plains.

APPENDIX 5-1

BPAWWTP Flow Summaries

Date (1)	Rainfall at National Airport, inches (2)	Maximum Hourly Flow to Excess Flow Treatment Outfall 001 mgd	Maximum Hourly Flow to Complete Treatment Outfall 002 mgd
1/2/2014, 1/3/2014	0.34	0	345
1/5/2014, 1/6/2014	0.24	0	383
1/10/2014,1/11/2014, 1/12/2014	1.44	204	539 (3)
1/14/2014	0.35	0	508
2/3/2014	1.48	272	562 (3)
2/4/2014, 2/5/2014	0.38	0	469
2/12/2014 to 2/14/2014	1.70	0	576 (3)
3/2/2014,3/3/2014	0.78	0	461
3/16/2014,3/17/2014	0.67	0	365
3/19/2014, 3/20/2014	0.37	0	488
3/25/2014	0.29	0	395
3/29/2014 to 3/31/2014	2.07	334	581 (3)
4/7/2014, 4/8/2014	0.42	0	542 (3)
4/14/2014, 4/15/2014	1.53	213	560 (3)
4/25/2014	0.39	0	513 (3)
4/28/2014 to 4/30/2014	3.08	337	543 (3)
5/5/2014	0.38	105	544 (3)
5/15/2014,5/16/2014	2.65	331	520 (3)
5/27/2014	0.91	141	530 (3)
5/28/2014 to 5/30/2014	0.32	0	548 (3)
6/4/2014 to 6/5/2014	0.42	0	487
6/8/2014 to 6/9/2014	0.45	0	532 (3)
6/10/2014	0.78	72	544 (3)
6/11/2014 to 6/12/2014	0.77	99	533 (3)
6/13/2014	0.22	0	548 (3)
6/25/2014	0.45	0	495
7/3/2014 to 7/4/2014	0.52	0	468
7/8/2014	0.76	0	458
7/10/2014	1.31	0	561 (3)
7/15/2014,7/16/2014	1.71	149	542 (3)
8/3/2014, 8/4/2014	0.45	0	484
8/5/2014	0.38	0	288
8/11/2014 to 8/12/2014	1.63	195	539 (3)
8/20/2014	0.26	0	352
8/23/2014	0.21	0	425
8/31/2014, 9/1/2014	0.27	0	489
9/13/2014	0.23	0	363
9/24/2014, 9/25/2014	0.68	60	527 (3)
10/10/2014, 10/11/2014	0.48	0	420
10/15/2014	1.42	148	542 (3)
10/21/2014,10/22/2014	1.09	90	540 (3)
11/5/2014, 11/6/2014	0.52	0	435
11/16/2014 to 11/17/2014	0.72	106	543 (3)
11/23/2014,11/24/2014	0.31	0	480
11/26/2014	1.06	112	549 (3)
12/1/2014.12/2/2014	0.63	0	522 (3)
12/5/2014, 12/6/2014	0.48	0	524 (3)
12/7/2014, 12/8/2014	0.33	0	348
12/15/2014	0.40	0	321
12/21/2014 to 12/24/2014	1.31	66	532 (3)

Notes:

(1) By observing the trend of the plant flows, rain events were grouped if they appeared to have occured continuously over consecutive days

(2) Rainfall events 0.2" or greater are shown.

(3) Data indicates that the plant is providing complete treatment to more flow than is required by NPDES permit.

Section 6 Dry Weather Overflows

6.1 NPDES PERMIT REQUIRMENTS

The NPDES Permit prohibits dry weather overflows (DWOs) from CSO outfalls. However, there is recognition that some DWOs may occur due to unavoidable conditions such as debris, pipe failure or other reasons. Given this situation, the permit requires the following:

- When a dry weather overflow is detected, DC Water is required to begin corrective action immediately. DC Water must inspect the dry weather overflow each subsequent day until the overflow has been eliminated
- Maintain a program to enlist public support for reporting DWOs.
- Receive reports of DWOs on a 24- hour basis. Report each confirmed DWO to the District of Columbia Department of the Environment and EPA Region III within 24 hours of being aware of the DWO. In addition, DC Water is required to submit a written report to EPA Region III within 5 days of the time DC Water becomes aware of the DWO.

6.2 BACKGROUND

In the CSS, sanitary wastewater and storm water are collected and diverted to the BPAWWTP at facilities called regulators. During periods of rainfall, the capacity of a combined sewer may be exceeded. When this occurs, regulators are designed to discharge the excess flow directly to the Anacostia River, Rock Creek, the Potomac River, or tributary waters. This excess flow is called Combined Sewer Overflow (CSO). Release of the excess flow is necessary to prevent flooding of homes, basements, businesses, and streets. CSOs are designed to occur during wet weather events and will occur when the system is functioning normally.

During dry weather conditions, sanitary wastewater in the combined sewer system should not be discharged to the receiving waters. However, debris, trash, and other materials can block regulators and affect the regulators function, sometimes resulting minor overflows during dry weather. There can also be overflow due to vital infrastructural breakdown such as a cut in power supply. These occurrences are called dry weather overflows (DWOs). Dry weather overflows are prohibited by DC Water's NPDES Permit.

DC Water maintains an aggressive program to prevent DWOs and to correct any DWOs that are identified.

6.3 DWOs DURING REPORTING PERIOD

There were ten (10) overflows during the year 2014 as reported in quarterly reports to EPA Region III as follows.

Table 6-1

Dry Weather Discharges

Location	CSO Outfall #040 - Rock Creek near Biltmore Street extension NW
Cause	During their routine monthly outfall inspections, a District of Columbia Water and Sewer Authority (DC Water) sewer maintenance crew observed a dry weather discharge through CSO #040. Later, further investigations found that the base of the upstream manhole riser at Structure #61 had collapsed due to severe mortar deterioration causing debris to enter the structure and clog the 14-inch diversion pipe.
Date/ Time Discovered	August 26, 2014 at approximately 11:30 AM
Action Taken	The crew was unable to clear the blockage in the pipe by power jetting. Anchor Contracting Inc. was directed to set up a by-pass pumping system to divert the flow away from the pipe.
Date/Time Discharge Ceased	August 27, 2014 at approximately 8:30 AM
Estimated Volume	1,200 gallons
Did Overflow Reach Receiving water?	Yes. Rock Creek.
Action taken to prevent reoccurrence	Anchor is continuing to clear the pipe for an additional CCTV inspection and will rebuild the manhole to secure the structure. We will coordinate with our Engineering Department to develop long term plans for permanent sewer rehabilitation of the line that will extend the service life of the pipe.

Provided below are the other overflow incidents that occured during the year 2014 as reported in quarterly reports to EPA Region III as follows.

Location	Capital Crescent Trail, NW.
Cause	DC Water received a report from our Sewer Program consultants of a leak from an out-of-service section of the Upper Potomac Interceptor 48-inch sanitary sewer (UPI). It was discovered that a large quantity of water had entered the UPI from the Potomac Interceptor (PI). The duration and intensity of the rainfall over the last few days surcharged the PI and spilled a large volume of sewerage. During the rain event, the Fabridam on Structure #35 stayed inflated, causing a backup in the PI that surcharged to higher elevation along the PI and UPI. The Fabridam is programmed to deflate to allow elevated flows in the PI to discharge through Structure #35 and out to the Potomac River through CSO Outfall #021.
Date/ Time Discovered	April 30, 2014 at approximately 3:30 PM.
Action Taken	Once the situation was recognized, the Fabridam was manually deflated at 5:40pm to prevent further damage to the system. The deflation allowed the large backup in the PI to flow to the Potomac River. Staff immediately directed Corinthian Construction to set up a by-pass pumping system to take the flow away from the defective portion pipe.
Date/Time Discharge Ceased	May 1, 2014 at 4:15 pm.
Estimated Volume	Approximately 5 million gallons.
Did Overflow Reach Receiving water?	Yes. The Potomac River
Action taken to prevent reoccurrence	DC Water is rebuilding bulkheads at the diversion structure. We are working to develop plans and secure the appropriate permits for the permanent sewer rehabilitation that will extend the service life of the PI/UPI. DC Water is also proceeding with an analysis of Fabridam 35 operations to determine what further actions need to be taken.

Location	Capital Crescent Trail
Cause	Excessive rainfall during the night and early morning hours surcharged the Potomac Interceptor sewer and also backed up the 18-inch intercepting pipe from diversion structure #46 to the Potomac Interceptor spilling a large quantity of sewerage. Most of the sewerage traveled overland and into the Potomac River; Later that day, when the rain stopped, the surcharge condition subsided and all overflows ceased.
Date/ Time Discovered	May 16, 2014 at approximately 7:30 AM
Action Taken	We then directed our contractor Corinthians Construction to install sandbags around overflow areas to contain the flow. All surface areas were cleaned-up and decontaminated.
Date/Time Discharge Ceased	May 16, 2014 at approximately 1:30 PM
Estimated Volume	100,000 gallons
Did Overflow Reach Receiving water?	Yes, the Potomac River
Action taken to prevent reoccurrence	DC Water will be conducting regular inspection of the PI, especially after heavy rain events for possible overflows. We are working on expediting plans to re-line the 18-inch intercepting pipe and rehabilitating the Upper Potomac Interceptor sewer. This will enable us to restore flow to the out of service portion of pipe and provide some relief during surcharge conditions on the PI throughout peak flow rates.

Location	Suitland Parkway near Irving Street, SE.
Cause	One of DC Water contractors inspecting storm sewer outfalls observed sanitary waste in the outfall near Harford Street and 22nd Street, SE. A crew dispatched to investigate found sanitary sewer seeping through the concrete encasement on the 12 inch sanitary sewer.
Date/ Time Discovered	January 15, 2014 at approximately 1:30 PM.
Action Taken	The crew used quick setting cement to stop the leak.
Date/Time Discharge Ceased	January 15, 2014 at 11:30 pm.
Estimated Volume	Approximately 600 gallons.
Did Overflow Reach Receiving water?	Yes. The Anacostia River
Action taken to prevent reoccurrence	Corinthian Contractors stopped the leaking sewer and installed a by-pass pumping system. To determine what additional steps may be needed to prevent recurrence at this location, we have requested our Department of Engineering and Technical Services – Planning Section to prioritize the rehabilitation needed of sewers near this location in the overall sewer service life restoration program.

Location	16th St & Whittier Pl. NW
Cause	The District of Columbia Water and Sewer Authority (DC Water) received a call from our Sewer Program consultants concerning leaks from a 12 inch sanitary sewer that crosses a creek in the vicinity of 16th Street and Whittier Pl., NW. A sewer maintenance crew from the Department of Sewer Services (DSS) was dispatched to investigate the report. The crew found that waste from a joint in the concrete encasement of the pipe near the creek crossing was seeping into the creek.
Date/ Time Discovered	May 5, 2014 at approximately 2:50 PM
Action Taken	The crew cleaned the area near the leak and applied quick setting concrete to seal the leak.
Date/Time Discharge Ceased	May 5, 2014 at approximately 7:30 PM
Estimated Volume	One gallon per day
Did Overflow Reach Receiving water?	Yes. An unnamed creek that flow into Rock Creek.
Action taken to prevent reoccurrence	We are currently developing plans to rehabilitate all sections of that pipe near the creek crossing with a CIPP product and trenchless method.

Location	Glover Archbold Park, NW
Cause	The District of Columbia Water and Sewer Authority (DC Water) received an email regarding a probable sewer overflow in the park. A sewer maintenance crew was dispatched to the site to investigate the report. The crew found that there was no ongoing overflow, but they observed signs of a sewage spill. They indicate that possibly during the heavy rain event of May 16, 2014, the 27-inch sanitary sewer surcharged and dislodged the manhole frame and cover allowing sewerage from the sanitary line enter a nearby storm grate that discharges into a 108-inch storm sewer.
Date/ Time Discovered	May 20, 2014 at approximately 3:45 PM
Action Taken	The crew secured the manhole top in place.
Date/Time Discharge Ceased	Unknown.
Estimated Volume	Unknown.
Did Overflow Reach Receiving water?	Yes. The Potomac River.
Action taken to prevent reoccurrence	DC Water Engineering Services is assessing the condition of the 27-inch sewer and determining what additional steps may be needed to prevent recurrence at this location.

Location	Suitland Parkway near 18th St. SE
Cause	The District of Columbia Water and Sewer Authority (DC Water) received a service call regarding an overflowing sewer manhole. A sewer maintenance crew was dispatched to the site to investigate the report. The crew found an overflowing manhole in the embankment off the roadway at Suitland Parkway near 18th St. SE.
Date/ Time Discovered	May 26, 2014 at approximately 12:30 PM
Action Taken	They removed a buildup of grease and debris in the manhole to clear the obstruction in the sewer and closed circuit television camera inspection performed at the time showed that the pipe was fully open.
Date/Time Discharge Ceased	May 26, 2014 at approximately 4:00 PM,
Estimated Volume	1,000 gallons.
Did Overflow Reach Receiving water?	Yes. The Anacostia River
Action taken to prevent reoccurrence	The DC Water Department of Engineering- Planning Section will prioritize the planned inspection and evaluation of this sewer in the overall system assessment program.

Location	Anacostia Ave. and Douglas Street, NE
Cause	The District of Columbia Water and Sewer Authority (DC Water) sewer maintenance crew was dispatched to investigate a report of a sewer overflow. The crew found the sewer was in good operating condition with no ongoing sanitary overflow, but they observed signs of a prior sewage spill. They indicated that possibly during a previous rainfall event, an 18- inch sanitary sewer along Anacostia Ave., NE surcharged, displaced the manhole covers at two separate locations allowing waste from the same sanitary line to enter a nearby catch basin on the storm sewer that discharged into the Anacostia River.
Date/ Time Discovered	June 13, 2014 at approximately 9:45 AM
Action Taken	Discharged had already ceased.
Date/Time Discharge Ceased	Unknown
Estimated Volume	4,500 gallons
Did Overflow Reach Receiving water?	Yes. The Anacostia River.
Action taken to prevent reoccurrence	We will coordinate with our Engineering Department to conduct close circuit television (CCTV) inspection to assess the condition of the line and determine what additional steps may be needed to prevent a reoccurrence at the location.

Location	Pope Branch Creek, Fort Davis Park near Nash Pl, SE
Cause	The District of Columbia Water and Sewer Authority (DC Water) and the District Department of the Environment (DDOE) investigating a possible leak on a 12-inch sanitary sewer observed seepage from the pipe. At the time, our sewer repair contractor Corinthian Contractors was onsite removing concrete encasement around a 12-inch sewer to eliminate a deep sag in the pipe and prepare it for re-lining later in the week. Sewage leaked from several joints and flowed into the creek at the bottom of the slope.
Date/ Time Discovered	August 20, 2014 at approximately 2:00 PM
Action Taken	Corinthian Contractors applied quick setting concrete at the joints and set up a by-pass pumping system to prevent the waste from entering the creek.
Date/Time Discharge Ceased	August 20, 2014 at approximately 7:30 PM
Estimated Volume	2,000 gallons
Did Overflow Reach Receiving water?	Yes. Pope Branch Creek.
Action taken to prevent reoccurrence	In the coming weeks a subcontractor for Corinthian Contractors will re- line the entire two mile stretch of the sewer in the heavily wooded area of Fort Davis Park to extend the service life of the pipe.
Location	Pope Branch Creek, Fort Davis Park near Nash Pl, SE
------------------------------	--
	The District of Columbia Water and Sewer Authority (DC Water) received
	notice from the the District Department of the Environment (DDOE)
	concerning a sewer leak on a 12-inch sanitary sewer. DC Water
	investigation found that our sewer repair contractor Corinthian Contractors
	recently completed high pressure cleaning on the pipe in preparation for re-
	lining the sewer. That action caused seepage at several joints which flowed
Cause	into the creek at the bottom of the slope.
Date/ Time Discovered	August 22, 2014 at 3:54 PM
	Corinthian Contractors modified the by-pass pumping system to prevent
Action Taken	any waste from entering the creek.
Date/Time Discharge Ceased	August 22, 2014 at approximately 7:00 PM
Estimated Volume	500 gallons
Did Overflow Reach Receiving	Yes. Pope Branch Creek.
water?	
	In the coming weeks a subcontractor for Corinthian Contractors will re-line
Action taken to prevent	the entire two mile stretch of the sewer in the heavily wooded area of Fort
reoccurrence	Davis Park to extend the service life of the pipe.

6.4 PUBLIC PROGRAM TO REPORT DWOs

Part of DC Water's program to prevent and report DWOs includes use of their website as a tool to inform and involve the public. The website includes an explanation and photos of how littering and improper debris disposal can increase the potential for DWOs. Furthermore, it describes DC Water's maintenance program for debris control and removal. In addition, the website also provides a telephone number that the public can call to report a Dry Weather Overflow. Printouts of excerpts from DC Water's website can be found in Appendix 9-1.

Besides the website, DC Water also includes biannual mailers in residents' water and sewer bills. These mailers, entitled "Clean Rivers Project News" summarize the work being done by DC Water, provide information on the CSS and explain both CSOs and DWOs and the role of the public in preventing and reporting these events. Copies of the 2014 mailers are located in Appendix 9-2.

Section 7 Control of Solids and Floatables

7.1 NPDES PERMIT REQUIREMENTS

Permit requirements for this NMC are summarized as follows:

- Screen pumped overflows at the Main and O Street Pumping Stations.
- Screen flow into the Northeast Boundary Swirl Facility.
- Operate and maintain end of pipe solid and floatable BMP demonstration controls which consist of the end of pipe netting system at CSO Outfall 018 and the bar racks at CSO Outfalls 040 and 041.
- Clean 85 percent of the 8200 catch basins in the combined sewer area at least annually. Inspect catch basins in CSO areas tributary to the Anacostia River at least 2 times per year and clean more frequently as identified by inspections.
- Operate the Anacostia River Floatable Debris Removal Program (Skimmer Boat program).
- Implement an ongoing, appropriate bi-lingual (English and Spanish) public education program aimed at reducing litter in the CSO sewer shed, including public service announcements, public school presentations and stenciling programs.
- Advise D.C. Department of Public Works (DPW) and the National Park Service (NPS) in writing at least once per year on methods and systems to maximize litter control in the CSS, targeting neighborhoods that contribute disproportionate amounts of trash to the CSS. Document these efforts in quarterly CSO reports.
- Prepare lesson plan materials to educate school children on the ways and means for citizens to assist in reducing the amount of solid and floatable materials in CSOs. Make the materials available to D.C. Public elementary schools for their use. Offer to make presentations to schools on the lesson plan and the CSO program at up to 6 occasions per year.

Information reported in this Section is based on data reported to EPA Region III in DC Water's quarterly reports.

7.2 SCREENING AT MAIN AND O STREET PUMPING STATIONS

Solids and floatables control is provided to the pumped overflows at Main and O Pumping Stations by bar racks on the influent side of the storm pumps are screened. Due to the nature of the configuration, the amount of floatables removed cannot be quantified.

7.3 NORTHEAST BOUNDARY SWIRL FACILITY SCREENING

Solids and floatables are removed from the influent to the Northeast Boundary Swirl Facility by mechanically cleaned screens. A summary of the quantity removed in 2014 is presented in Table 7-1.

	•
	Quantity of Material Removed
Month	(<i>cu.ft.</i>)
January	64
February	96
March	284
April	897
May	296
June	906
July	208
August	130
September	952
October	510
November	185
December	236
Total	4,764

Table 7-1

Screenings Removed at Northeast Boundary Swirl Facility

Notes:

(1) The Inflatable dams at Structure 24, diverts flow from the Northeast Boundary sewer to the Northeast Boundary Swirl Facility.

7.4 BMP DEMONSTRATION FOR SOLIDS AND FLOATABLES CONTROL

• Netting system at CSO 018

Netting devices intercept floatables from CSOs passing through a set of netted bags. DC Water has installed a floating end of pipe netting system as a demonstration project.

The CSO 018 netting system is located adjacent to the skimmer boats. The DSS skimmer boat staff inspects the netting system on normal workdays, removes the captured floatable debris and changes the nets when necessary. Table 7-2 summarizes the materials removed by the netting system.

	Quantity of Material Removed					
Month	(lbs)					
January	0					
February	0					
March	150					
April	0					
May	0					
June	200					
July	0					
August	0					

Table 7-2Screenings Removed at CSO 018 Netting System

Control of Solids and Floatables

	Quantity of Material Removed
Month	(lbs)
September	500
October	0
November	1,300
December	0
Total	2,150

• Bar Racks at CSO 040 and CSO 041

These are manually cleaned bar racks that capture solids from the CSO prior to discharge. The bar rack system is designed so that the captured solids and floatables are conveyed to BPAWWTP for treatment. Bar racks are inspected monthly.

7.5 CATCH BASIN CLEANING

The Catch Basin crews inspect and clean catch basins on a rotating basis beginning in District Ward No. 1 and continuing through to Ward No. 8.

A summary of the catch basins cleaned by DC Water for the reporting period is provided in Table 7-3.

				Inspections		Clea	ning
				Total	Total	Total CBs	
				Anacostia	Anacostia	Cleane	ed This
				CBs	CBs	Year to	o Date
			CBs in	Inspected	Inspected		
		CBs in	Anacostia	Once this	Twice this		
Ward	Total CBs	CSS	CSS	Year	Year	Total	In CSS
1	1,591	1,568	734	734	734	2,129	1,611
2	4,714	4,112	2,316	2,316	2,316	6,667	4,742
3	3,555	461	-	0	0	5,159	1,212
4	2,782	1,985	159	159	159	3,956	2,395
5	2,167	1,035	1,035	1,035	1,035	3,231	2,078
6	1,783	1,594	1,594	1,594	1,594	3,407	2,415
7	2,313	-	-	0	0	1,569	0
8	1,278	116	116	116	116	2,707	764
DC Water				5 954	5 954	28 825	15 217
Subtotal	20,183	10,871	5,954	3,737	3,734	20,023	13,217
DDOT (via				0	0	Δ	0
VMS) Subtotal				U	U	U	U
Grand Total	20,183	10,871	5,954	5,954	5,954	28,825	15,217
%							
Cleaned/Inspecte				100%	100%	>100%	>100%
d to Date							

Table 7-3Catch Basin Summary

The table indicates that DC Water has met or exceeded the permit requirements to clean 85 percent of the catch basins in the combined sewer area at least annually, and inspect catch basins in CSO areas tributary to the Anacostia River at least 2 times per year and clean more frequently as identified by inspections.

7.6 ANACOSTIA RIVER FLOATING DEBRIS REMOVAL PROGRAM

This program was initiated in September 1992 to remove floating debris from the Anacostia and Potomac Rivers on a routine basis. The Department of Sewers Services operates two skimmer boats, 5-days per week excluding holidays (weather permitting) to remove small floating debris from the Rivers as well as trash. The Army Corps of Engineers is responsible for removing hazards to navigation such as trees and logs. DSS Crews document the amount and type of debris, which is included in the monthly operations report. A summary of 2014 reports is included in Table 7-4.

	e Debris Removal i rogran
Month	Material Removed (tons)
January	20
February	5
March	5
April	40
May	200
June	50
July	40
August	70
September	20
October	20
November	20
December	10
Total	500

 Table 7-4

 Anacostia River Floatable Debris Removal Program Summary

7.7 COORDINATION OF LITTER CONTROL WITH DPW AND NPS

DC Water shared the requirement of NPDES permit with DPW and NPS in order to engender their collaboration in Litter Control efforts within the District of Columbia. The cooperation of DPW and NPS was further stressed in the implementation of specific mitigation programs such as catch basin cleaning and Floatable River Debris Removal Program. See coordination letter providing recommended best practices on litter control in Appendix 7-1.

7.8 BI-LINGUAL PUBLIC EDUCATION PROGRAM

DC Water implemented an appropriate bi-lingual (English and Spanish) public education program aimed at reducing litter in the CSO sewershed, including public service announcements, public school presentations and stenciling programs. DC Water hired MAYA Advertising to organize bi-lingual radio commercials, in the form of a skit, to sensitize the public on the negative impact of waste littering within the district. A copy of the invoices on radio commercials and scripts are attached in Appendix 7-2.

7.9 SCHOOL OUTREACH EFFORTS

DC Water presented at the following schools to educate school children on the ways and means for citizens to assist in reducing the amount of solid and floatable materials in CSOs. For each presentation, the project and environment benefits of the sustainable project were discussed and "A Drop's Life" video was shown, followed by a deeper discussion about urban storm water pollution and DC Water's role in reducing CSOs and improving the health of our local waterways. The lesson plan on "A Drop's Life" is attached in Appendix 7-3.

Control of Solids and Floatables

No.	Date & Time	Location
1	February 21, 2014	Moten Elementary School, 1565 Morris Road, Southeast, Washington, DC 20020
2	May 14, 2014	Phelps High School, 704 26th Street, Northeast, Washington, DC 20002
3	June 19, 2014	John Burroughs Education Campus, 1820 Monroe Street, Northeast, Washington, DC 20018
4	November 19. 2014	Langdon Education Campus' 1900 Evarts Street, Northeast, Washington, DC 20018
5	December 4, 2014	Phelps High School, 704 26th Street, Northeast, Washington, DC 20002
6	September, 16, 2014	Bishop Walker School for Boys 3640 Martin Luther King Jr. Avenue, Southeast, Washington, DC 20032
7	December 1, 2014	Bruce-Monroe @ Park View 3560 Warder Street, Northwest, Washington, DC 20010

Table 7-5School Outreach Efforts

APPENDIX 7-1

Coordination of Litter Control



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY I 5000 OVERLOOK AVENUE, SW I WASHINGTON, DC 20032

December 18, 2014

Mr. Peter May Associate Regional Director- Lands, Planning and Design National Park Service 1100 Ohio Drive SW Washington, DC 20242

Mr. William O. Howland, Jr. Director Department of Public Works Government of the District of Columbia 2000 14th Street NW, 6th Floor Washington, DC 20009

Dear Sirs:

The U.S. Environmental Protection Agency (EPA) issued DC Water a National Pollutant Discharge Elimination System (NPDES) Permit for the Blue Plains Advanced Wastewater Treatment Plant and sewer system. The permit requires DC Water to conduct certain activities. In addition to other requirements, the permit requires DC Water to:

Advise the D.C. Department of Public Works (DPW) and the National Park Service (NPS) in writing at least once per year on methods and systems to maximize litter control in the CSS, targeting neighborhoods that contribute disproportionate amounts of trash to the CSS. (Page 38, Part III.B.1.f.vi of permit).

As you are aware, litter and trash on streets can be washed into drainage inlets during rain events. Litter and trash that is not captured by catch basins and other facilities enters sewers and can be discharged to the receiving waters where it negatively impacts aesthetics. DC Water has programs such as catch basin cleaning and the Anacostia River Floatable Debris Removal Program to mitigate the impact of trash and litter. In addition, we are constructing the DC Clean Rivers Project to control CSO discharges to the receiving waters.

EPA Guidance on best practices to control litter is available at the following location: <u>http://water.epa.gov/polwaste/npdes/swbmp/Trash-and-Debris-Management.cfm</u> An overview of the recommended practices is as follows:

• Community education. Community education and awareness is essential to preventing trash from entering waterways. Informing the public about littering can instill a sense of citizen responsibility. For example, a community education program can inform residents of the consequences of littering and then provide them with options for recycling and waste disposal. Such messages can be conveyed to the



Mr. Peter May Mr. William O. Howland, Jr. December 18, 2014 Page 2 of 2

public in flyers, door hangers, magnets, and bumper stickers. These materials can be distributed through the mail, at public places (e.g., libraries, town halls), in schools, and at local businesses. Regular messaging to the community can help with long-term behavioral changes.

- Improved infrastructure. The location, number, and size of trash receptacles, recycling bins, and cigarette butt receptacles should be based on expected needs. Communities and private trash disposal companies should work together to meet community trash management goals, including ensuring that trash trucks are properly covered.
- Waste reduction. The public should be encouraged to buy products free of excessive packaging materials. Likewise, manufacturers should be encouraged to reduce the amount of packaging they use. This information can be distributed in flyers, magnets, and the community's web page.
- Cleanup campaigns. Cleanup campaigns are effective ways to reduce trash. They have been used successfully along rivers and in parks. By tracking what is collected, the sources of trash can be quantified and targeted to improve source reduction. Municipal projects such as regular street sweeping, receptacle servicing, and roadside cleanups are also important means to prevent trash from accumulating and entering waterways.

In accordance with the permit, we encourage your assistance in implementing best practices for litter control to improve the quality of the receiving waters in the District. Thank you for your assistance and please contact me at 202-787-4469 or at <u>Carlton.Ray@dcwater.com</u> if you have any questions.

Sincerely,

Carlton M. Ray, Director DC Clean Rivers Project



APPENDIX 7-2

Bi-Lingual Public Education Program



Washington D.C (WHUR)

REMIT TO WHUR-FM Radio 529 Bryant Street, N.W. Washington, DC 20059 ph: (202) 806-3500 fx: (202) 806-3549

D.C. WATER AND SEWER 5000 OVERLOOK AVENUE, S.W. WASHINGTON, DC 20032

Advertiser Agency Buyer Salesperson

Product

Acct Types

Est/Headline

Brand

Demo

Revision Comments

D.C.WATER (1331) D.C. WATER AND SEWER (1264)

WHITE, LADAWNE TINSLEY, LAUREN (1011) ph: (202) 806-3500

Various (1065) HOLIDAY (9180) Local/Spot Agency /

		the second se
Invoice	1165	44
Inv Date	12/28	/2014
Terms	Net 3	C
Contract	1034	3
Bill Type	Stand	ard
Period	12/1/20)14 - 12/28/2014
CO-OP/Order	Туре	No/Normal
Package		

Gen. Date 12/29/2014 11:36:00AM

AgM

OFFICIAL BILLING INVOICE

Line	Туре	Scheduled	Schedule Days to Run	Air Time	Length	Program	Copy/ISCI	Amount	Remarks
1.0	Contrac	t Line Remarks:							
1.0	SPOT	6:00AM-10:00PM	Day,M-2,Tu-2,W-2,Th-2,F-2	12/22/14 6:17AM (Mo)	01:00	THE STEVE HARVEY SHOW 6A-7A	D.C. WATER	\$250.00	
1.0	SPOT -	6:00AM-10:00PM	Day,M-2,Tu-2,W-2,Th-2,F-2	12/22/14 6:32AM (Mo)	01:00	THE STEVE HARVEY SHOW 6A-7A	D.C. WATER	\$250.00	
1.0	SPOT	6:00AM-10:00PM	Day,M-2,Tu-2,W-2,Th-2,F-2	12/23/14 6:14AM (Tu)	01:00	THE STEVE HARVEY SHOW 6A-7A	D.C. WATER	\$250.00	
1.0	SPOT	6:00AM-10:00PM	Day,M-2,Tu-2,W-2,Th-2,F-2	12/23/14 7:52PM (Tu)	01:00	THE QUIET STORM 7:30P-8P	D.C. WATER	\$250.00	
1.0	SPOT -	6:00AM-10:00PM	Day,M-2,Tu-2,W-2,Th-2,F-2	12/24/14 9:14AM (We)	01:00	THE STEVE HARVEY SHOW	D.C. WATER	\$250.00	
1.0	SPOT	6:00AM-10:00PM	Day,M-2,Tu-2,W-2,Th-2,F-2	-12/24/14 5:32PM (We)	01:00	9A-10A WHUR AFTERNOON 5P	D.C. WATER	\$250.00	
1.0	SPOT -	6:00AM-10:00PM	Day,M-2,Tu-2,W-2,Th-2,F-2	12/25/14 6:14AM (Th)	- 01:00	THE STEVE HARVEY SHOW 6A-7A	D.C. WATER	\$250.00	
1.0	SPOT -	6:00AM-10:00PM	Day,M-2,Tu-2,W-2,Th-2,F-2	12/25/14 4:14PM (Th)	- 01:00	WHUR AFTERNOON SHOW 4P	D.C. WATER	\$250.00	
1.0	SPOT -	6:00AM-10:00PM	Day,M-2,Tu-2,W-2,Th-2,F-2	12/26/14 7:47AM (Fr)	- 01:00	THE STEVE HARVEY SHOW 7A-8A	D.C. WATER	\$250.00	
1.0	SPOT -	6:00AM-10:00PM	Day,M-2,Tu-2,W-2,Th-2,F-2	12/26/14 6:16PM (Fr)	- 01:00	WHUR AFTERNOON 6P	D.C. WATER	\$250.00	
2.0	SPOT	10:00AM-10:00PM	Day,Sa-1	12/27/14 10:35AM (Sa)	- 01:00	THE TIME TUNNEL 10A-11A	D.C. WATER	\$100.00	
3.0	SPOT	6:00AM-11:59PM	Per week (5),Mo,Tu,We,Th,Fr,Sa,Su	12/22/14 9:30AM (Mo)	01:00	THE STEVE HARVEY SHOW	D.C. WATER		
						9A-10A	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
3.0	SPOT	6:00AM-11:59PM	Per week (5),Mo,Tu,We,Th,Fr,Sa,Su	12/23/14 4:31PM (10)	01:00	WHUR AFTERNOON SHOW 4P	D.C. WATER	\$0.00	
3.0	SPUT	6:00AM-11:59PM	Per week (5),Mo,Tu,We,Th,Fr,Sa,Su	12/24/14 10:35PM (We)	01:00	THE QUIET STORM 10P-11P	D.C. WATER	\$0.00	
3.0	SPOT	6:00AM-11:59PM	Per week (5),Mo,Tu,We,Th,Fr,Sa,Su	12/27/14 7:39AM (Sa)	01:00	GORDON	D.C. WATER	\$0.00	
3.0	SPOT	6:00AM-11:59PM	Per week (5),Mo,Tu,We,Th,Fr,Sa,Su	12/27/14 3:37PM (Sa)	01:00	THE SHOW 3P-4P	D.C. WATER	\$0.00	
4.0	Contrac	t Line Remarks:	BONUS SPOT			ID A			
	SPOT	6:00AM-10:00AM	Day,M-1	12/22/14 9:44AM (Mo)	01:00	THE STEVE HARVEY SHOW	D.C. WATER	\$0.00	
5.0	Contrac	t Line Remarks:	BONUS SPOTS			16/14	1	1	
	SPOT	6:00AM-10:00AM	Day,W-2	12/24/14 7:33AM (We)	01:00	THE STEVE HARVEY SHOW 7A-8A	D.C. WATER	\$0.00	
	SPOT -	6:00AM-10:00AM	Day,W-2	12/24/14 9:45AM (We)	01:00	THE STEVE HARVEY SHOW	D.C. WATER	\$0.00	
6.0	Contrac	t Line Remarks:	BONUS SPOTS			<i></i>		1	
	SPOT	6:00AM- 8:00PM	Day,Tu-2,W-2,Th-2,F-2	12/23/14 8:47AM (Tu)	01:00	THE STEVE HARVEY SHOW 8A-9A	D.C. WATER	\$0.00	
	SPOT	6:00AM- 8:00PM	Day,Tu-2,W-2,Th-2,F-2	12/23/14 7:13PM (Tu)	- 01:00	THE DAILY DRUM 7P-7:30P	D.C. WATER	\$0.00	
	SPOT -	6:00AM- 8:00PM	Day,Tu-2,W-2,Th-2,F-2	12/24/14 4:48PM (We)	- 01:00	WHUR AFTERNOON SHOW 4P	D.C. WATER	+	
	SPOT -	6:00AM-8:00PM	Day,Tu-2,W-2,Th-2,F-2	12/24/14 6.35PM (We)	- 01:00	WHUR AFTERNOON 6P	D.C. WATER	+0.00	
	SPOT -	6:00AM- 8:00PM	Day,Tu-2,W-2,Th-2,F-2	12/25/14 7:46AM (Th)	- 01:00	THE STEVE HARVEY SHOW 7A-8A	D.C. WATER		
	SPOT	6:00AM- 8:00PM	Day,Tu-2,W-2,Th-2,F-2	12/25/14 8:32AM (Th)	- 01:00	THE STEVE HARVEY SHOW 8A-9A	D.C. WATER		
	SPOT	6:00AM- 8:00PM	Day,Tu-2,W-2,Th-2,F-2	12/26/14 6:16AM (Fr)	- 01:00	THE STEVE HARVEY SHOW 6A-7A	D.C. WATER		
	SPOT	6:00AM- 8:00PM	Day,Tu-2,W-2,Th-2,F-2	12/26/14 8:44AM (Fr)	01:00	THE STEVE HARVEY SHOW 8A-9A	D.C. WATER		
71	Contrac	t line Remarks	BONUS SPOTS						
	SPOT	6:00AM- 8:00PM	Day, Tu-1, W-1, Th-1.F-1	12/23/14 9:32AM (Tu)	01:00	THE STEVE HARVEY SHOW	D.C. WATER	\$0.00	
						9A-10A		\$0.00	
	SPOT	6:00AM- 8:00PM	Day,Tu-1,W-1,Th-1,F-1	12/24/14 2:57PM (We)	01:00	MIDDAY W/TRISCINA GREY 2P-3P	D.C. WATER	\$0.00	
	SPOT	6:00AM- 8:00PM	Day,Tu-1,W-1,Th-1,F-1	12/25/14 6:47AM (Th)	01:00	THE STEVE HARVEY SHOW 6A-7A	D.C. WATER	\$0.00	
	SPOT	6:00AM- 8:00PM	Day,Tu-1,W-1,Th-1,F-1	12/26/14 9:32AM (Fr)	01:00	THE STEVE HARVEY SHOW 9A-10A	D.C. WATER	\$0.00	
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WDCN-FM 8121 GEORGIA AVE SUITE 900 SILVER SPRING, MD 20910 301-686-1123 Phone

DC WATER 5000 OVERLOOK AVENUE SW WASHINGTON DC, 20032

LA NUEVA 87.7FM WDCN Order (OrderID: 0489-003

Sponsor: Product: Estimate/PO: AccountRep: BillingCycle: InvoiceType: Run Dates: Items Ordered: Gross Amount: Discounts: Agency Commission: Net Amount: DC WATER DC WATER

WALTER TORREZ Calendar Month Detail Notarized Affidavit 12/30/2014 - 1/7/2015 78 2,300.00 0.00 0.00 2,300.00

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Confirmed Correct; Payment Guaranteed

Accepted for Station1

APPENDIX 7-3

School Outreach Efforts

Grades: K-8

A Drop's Life (DC Clean Rivers Project)

<u>Overview</u>

Clean, healthy waterways are vital to the quality and sustainability of our communities. Reducing pollutants from entering District waterways will greatly improve the condition of the Anacostia and Potomac Rivers. By examining the life of a water drop, students will learn how water from rain and snow storms becomes runoff and flows into our watersheds, how stormwater runoff causes erosion and picks up pollution, how various human activities impact the quality of our waterways, and how the DC Clean Rivers Project will help reduce water pollution.

<u>Objectives</u>

After completing this lesson, students will be able to:

- Define combined sewer overflows and stormwater runoff
- Explain the impact pollution has on water quality
- Give four examples of the kinds of human activities that affect water quality
- Identify the benefits of the DC Clean Rivers Project

Content Standard: NS.K-4.3 LIFE SCIENCE

As a result of the activities in grades K-4, all students should develop an understanding of

- The characteristics of organisms
- Life cycles of organisms
- Organisms and environments

Content Standard: NS.5-8.3 LIFE SCIENCE

As a result of the activities in grades 5-8, all students should develop an understanding of

- Abilities of technological design
- Understandings about science and technology

Content Standard: NS.K-4.6 PERSONAL AND SOCIAL PERSPECTIVES

As a result of the activities in grades K-4, all students should develop an understanding of

- Personal health
- Characteristics and changes in populations
- Types of resources
- Changes in environments

• Science and technology in local challenges

Content Standard: NS.5-8.6 PERSONAL AND SOCIAL PERSPECTIVES

As a result of the activities in grades 5-8, all students should develop an understanding of

- Personal health
- Populations, resources, and environments
- Natural hazards
- Risks and benefits
- Science and technology in society

Procedures

Ask students: If they know what happens to the water when it rains? Explain the concepts of combined sewer overflows (CSOs) and stormwater runoff to students. Discuss how pollution from CSOs and runoff affect water quality. Ask students to share examples of various human activities that may impact the quality of our waterways. Explain the purpose of the DC Clean Rivers Project and the environmental benefits it will provide. Students will observe a 4 ½-minute animated cartoon and engage in a group discussion.

<u>Activity</u>

1st-3rd grades: Make a Bottle Ocean

Students will conduct an experiment by making an "ocean in a bottle." By mixing different liquids with water, students will determine what will and will not mix. In particular, students will see if oil or detergent will mix with water. Oil and detergents are two common liquids that get dumped into our waters.

4th-8th grades: Modeling of a Watershed

Students will participate in a science lab, demonstrating how water from rain and snow storms becomes runoff and flows down watersheds through storm drains in cities and neighborhoods. Students will observe how stormwater runoff causes erosion and picks up pollution. Following the lab, students will discuss and identify ways to reduce or prevent urban stormwater pollution.



Malcolm X Event



Living Classrooms Event

Section 8 Pollution Prevention

8.1 NPDES PERMIT REQUIREMENTS

The requirements in the NPDES permit for this NMC are as follows:

- Conduct regular public education programs to advise citizens of proper disposal of substances.
- Conduct tours of the BPAWWTP to educate public on aspects of CSO control that can be enhanced with public assistance.
- Use the pretreatment program to encourage industrial waste reduction through recycling and improved housekeeping.
- Notify responsible agencies to enforce regulations that prohibit entrance into the CSS of any substance that may impair or damage the function and performance of collection and treatment systems.
- Coordinate where feasible and practicable DC Water's pollution prevention programs with those of D.C. government agencies such as Department of Public Works Programs and Department of Health Programs.

8.2 PUBLIC EDUCATION PROGRAMS

DC Water provides information about pollution prevention and proper disposal of substances to the public through the following:

- DC Water website excerpts from the website documenting this are included in Section 9.
- Water and sewer bill mailers DC Water issues water and sewer bill mailers related to CSOs (called the "CSO Update") twice per year to all customer accounts. The mailer includes information on pollution prevention and proper disposal of substances.
- School Outreach Efforts This is discussed in Section 7.

Tours of the Blue Plains Wastewater Treatment Plant may be arranged through the DC Water Department of External Affairs or via the DC Water webpage. A list of tour dates for 2014 is included in Appendix 8-1.

8.3 PRETREATMENT PROGAM

During the annual inspections of Significant Industrial Users, the Pretreatment and Lab Section of DC Water identifies pollution prevention techniques currently practiced at each facility. These include, but are not limited to secondary containment, spill containment and overfill protection and the use of environmentally friendly products. In addition, the pretreatment inspection report includes recommendations to improve the facility's pollution prevention techniques.

DC Water has developed a joint guidance document with the District Department of the Environment (DDOE) Hazardous Waste Division on Wastewater Management and Minimization for HealthCare Facilities. This document identifies acceptable disposal practices for a number of chemicals and other waste categories typically found in hospitals, and promotes pollution prevention by suggesting best management practices for minimizing waste streams through material and equipment substitutions and source reduction.

8.4 NOTIFICATION OF RESPONSIBLE AGENCIES

In accordance with its permit requirements, DC Water notified the DDOE, Transportation and Public Works regarding their responsibilities to enforce regulations that prohibit entrance into the CSS of any substance that may impair or damage the function and performance of collection and treatment systems. A copy of this notification is in Appendix 8-2.

8.5 AGENCY COORDINATION

In addition to the above activities, DC Water also coordinates with DC government agencies to conduct pollution prevention programs. With the DC Department of Public Works and the Department of the Environment, they provide education to the public about the following topics:

- Leaf Collection
- Curbside Recycling
- Household Hazardous Waste Collection
- Residential Bulk Refuse Collection and Self-Service Disposal
- Street Cleaning and Sweeping
- Inspection and Enforcement of Storm Water and Erosion/Sedimentation Control Regulations

Examples of pamphlets distributed to the public, information and reports concerning these programs are included in Appendix 8-3.

APPENDIX 8-1

Blue Plains Public Tours – 2014

There were a total of **109** tours scheduled through the Office of External Affairs (OEA) from January through December 2014; as compared to 74 tours in 2013 and 68 tours in 2012.

46 tours scheduled from January – June. Assignments were as follows:

	AKLILE:	5 tours	assigned	(1 guide)
--	---------	---------	----------	-----------

CHRIS: 13 tours assigned (2 guides)

SALIL: 22 tours assigned (9 guides)

SUDHIR/AHMED: 6 tours assigned (3 guides)

63 tours scheduled from June 25 – December 15

YANIQUE: 57 non technical tours assigned 6 technical tours required additional support from WT.

Calendar of tours as documented in the 2014 General Manager's reports:

Thursday, Jan 9	7 DC residents
Wednesday, Jan 15	15 Stone Ridge High School Students
Wednesday, Jan 22	23 guests from Qinghai provincial government
Thursday, Jan 30	5 representatives from Coca-Cola Refreshments
Wednesday, Feb 5	10 University of the District of Columbia students
Thursday, Feb 6	10 guests from Trinity River Authority
	10 DC residents
Wednesday, Feb 12	11 Phelps Senior High School students
Thursday, Feb 20	15 students from Virginia Tech
Friday, Feb 21	22 visitors from the U.S. State Department
Wednesday, Feb. 26	20 students from University of Maryland- College Park
Thursday, Feb 27	70 students from Maret Junior High School
Thursday, March 6	5 students Johns Hopkins Energy Resources & Environment Program
Monday, March 10	25 visitors from Vietnamese delegation/ World Bank
Wednesday, March 12	25 students from St. John's College High School
Thursday, March 13	20 visiting dignitaries/ Meridian International Center
Thursday, March 20	25 students from Catholic University
	9 visitors from the State Department
Wednesday, April 2	6 WSSC representatives (MDE)
Thursday, April 3	20 students from Gallaudet University
	20 delegates from Singapore PUB & EPA
Tuesday, April 8	50 international guests from IFC/ Global Water Week staff
Wednesday, April 9	5 guests from SFPUC/ Brown Caldwell
Thursday, April 10	5 students from UDC Service Learning Project
Wednesday, April 16	17 National Cathedral High School seniors
Wednesday, April 23	50 students from Fauquier County Public Schools
Thursday, April 24	15 students from Johns Hopkins University
Thursday, May 1	10 members from River Road UU Congregation
Thursday, May 8	15 staff members from U.S. Energy Information Administration
Friday, May 9	27 guests from the Chesapeake Bay Commission

	50 guests from the Association of Energy Engineers		
Wednesday, May 14	25 students from Capital City Public Charter School		
Thursday, May 15	20- mixed group, including 10 staff from U.S. International Trade		
	Commission		
Friday, May 16	10 guests from Philippine Delegation/DENR		
Wednesday, May 21	25 guests from World Bank		
	25 students from Capital City Public Charter School		
Wednesday, May 28	20 guests from IDB World Bank		
Thursday, May 29	10 Castalia Advisors consulting firm		
Tuesday, June 3	25 DCW summer interns		
Wednesday, June 4	10 guests from DDOE & South Korean Delegation		
	25 DCW summer interns		
Thursday, June 5	29 guests from US State Dept: International Leadership Program		
Tuesday, June 10	5 guests from NJ Environmental Infrastructure Trust		
Tuesday, June 17	21 teachers - Chesapeake Bay Foundation professional development		
	course		
Thursday, June 19	10 guests mixed group, including the U.S. Department of Agriculture		
Friday, June 20	20 Capital City Fellows at the request of Allen Lew		
Wednesday, June 25	25 guests from U.S. EPA, Wastewater Management		
Thursday, June 26	15 teachers from Montgomery County Chesapeake Bay Foundation		
	professional development course		
Wednesday, July 2	15 guests from the DC Sierra Club		
Thursday, July 3	25 guests form Summer Institute on Environmental Literacy		
Wednesday, July 9	20 guests mixed group, including NACWA		
Thursday, July 10	20 guests from the District Department of Transportation Policy and		
	Planning		
Friday, July 11	8 guests at the request of and including Board Member Brenda		
	Richardson		
Tuesday, July 15	12 Nature Conservancy summer interns		
Wednesday, July 16	25 EPA summer interns		
Thursday, July 17	10 guests from Center for Progressive Reform		
Thursday, July 24	8 interns from DDOT summer youth program		
	40 Military Graduate Students- Uniformed Services University of the		
	Health Sciences		
Wednesday, Jul 30	7 Auditors from McGladrey, LLC		
Wednesday, Aug 6	8 visiting dignitaries from South Africa		
Tuesday, Aug 12	9 guests from DC Sustainable Energy Utility		
Wednesday, Aug 13	12 guests from Brookings Institution		
	3 Congressional Staff		
Wednesday, Aug 20	20 students from American University Sustainability		
Thursday, Sep 4	28 guests from Water Environment Research Foundation (WERF)		
Thursday, Sep 11	4 guests from American Society of Civil Engineers		
	5 guests from Federal Aviation Administration Security		
Thursday, Sep 18	10 guests- mixed group- engineering students from Puerto Rico, ANC		
	commissioner, 2 DC residents		
Friday, Sep 19	18 guests COG Chesapeake Bay & Water Resource Policy Committee		

Wednesday, Sep 24	6 guests from Service Source
Thursday, Sep 25	62 Notre Dame University students
	8 guests from River Road Unitarian Universalist Congregation
Friday, Sep 26	4 guests from Singapore PUB Delegation
	44 University of Maryland graduate students
Wednesday, Oct 1	6 team members from IT department
Friday, Oct 3	3 graduate students from John Hopkins University Whiting School of
	Engineering
Wednesday, Oct 8	24 students environmental health from University of Maryland
Friday, Oct 10	5 guests from ANC 8D04 and 2 University of Washington graduate
	students
Wednesday, Oct 15	8 students from American University- Office of Sustainability
	25 students from James Buchanan High School
Friday, Oct 17	14 guests from Audubon Naturalist Society
	2 scientists from USDA and DOE Beijing Delegation of 5
Monday, Oct 20	20 Turkish political officials
Wednesday, Oct 22	16 guests from Riderwood retirement community
Friday, Oct 24	9 guests from Zhoushan Port Administration delegation
Wednesday, Oct 29	25 students from Stone Ridge School of the Sacred Heart
	12 guests from Ingleside retirement community
Thursday, Oct 30	Beijing delegation of 6
Friday, Oct 31	4 guests from EPA Water Team
	25 students -Johns Hopkins University, School of Advanced
	International Studies
Monday, Nov 3	12 students University of MD Dept of Environmental Science &
	Technology
Wednesday, Nov 5	25 students from Gaithersburg High School
	2 guests WFT Engineering and 2 graduate students
Thursday, Nov 6	12 students from Catholic University
Friday, Nov 7	50 guests from Oracle Corporation and IT briefing
	15 students from GW Law School
Wednesday, Nov 12	23 students from Capitol Hill Day School
	8 students from UDC College of Agriculture
Friday, Nov 14	7 students from George Washington University
	5 guests and 1 author from Carroll Garden Club
Wednesday, Nov 19	10 University of Maryland School of Public Health graduate students
	4 McGladrey internal auditors
Friday, Nov 21	8 GWU s Global Environmental Health graduate students
Monday, Nov 24	20 American Chinese International Foundation guests
Friday, Dec 5	10 guests from Chesapeake Bay Study- Philippine delegation
Wednesday, Dec 10	25 students from Anacostia High School
Thursday, Dec 11	14 guests from Emerald Planet TV/ Chinese delegation
Friday, Dec 12	10 guests- mixed group to include residents and engineers
Monday, Dec 15	12 guests from Beijing water

Tours of Blue Plains - DC Water - District of Columbia Water and Sewer Authority



http://www.dcwater.com/about/tours.cfm[2/6/2015 12:41:02 PM]



Home > Who We Are > Tours > Request a Tour

Who We Are

Tours

History

Contact Information

General Information

Request a Tour

Executive Management

Senior Management

Board of Directors

DC Water Cares

Request a Tour

Please use this form to request a tour of the DC Water Blue Plains Advanced Wastewater Treatment Plant, located at 5000 Overlook Avenue, SW. At Blue Plains, tours are offered on Wednesdays for junior and high school students, and Thursdays for other interested groups. Tours are scheduled to begin at 10 a.m. and last approximately 60-90 minutes.

Middle school students, grades 6 and up, are allowed on the plant, but will not be permitted to exit the vehicle. High school seniors (12th grade only) will be permitted to exit the vehicle on the plant, at the tour guide's discretion. Students in grades 5 and below are not permitted on the plant. Please include a brief description of your group's origin and interests, so we can assign an appropriate guide. You will receive an e-mail confirmation or phone call to acknowledge your request within 2 business days.

We can accommodate tour groups up to 25 people at one time and will provide transportation while on the plant for the tour. We do not allow multiple vehicles to tour the facility at one time. Participants are required to ride together in one vehicle for safety and security measures. We also offer tours as requested for our Bryant Street Water Pumping Station located at 301 Bryant Street, NW. Please email Darryle.Brown@dcwater.com or call (202) 787-3580 to inquire about Bryant Street. To learn more, go to http://www.dcwater.com/about/facilities.cfm.

- Please Select -		
10	00	AM
10	00	AM
yes	no	
	- Please S 10 10 yes	- Please Select - 10 00 10 00 yes no

If no, language spoken:

(DCWater does not provide translation services.)

If arriving at Blue Plains in a private bus or van, can the DC Water tour guide use your vehicle for the tour? (if "no", a DC Water vehicle will be provided)

yes no

Contact Person's First Name: *

Contact Person's Last Name: *

Contact Person's Phone: *

Contact Person's Email: *

Organization:

Please state your specific goal for this tour:

Contact Us Careers Site Map Privacy Polic

APPENDIX 8-2

Notification of Responsible Agencies



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY | 5000 OVERLOOK AVENUE, SW | WASHINGTON, DC 20032

January 30, 2014

Mr. Keith Anderson, Director District Department of Environment 1200 First Street NE Washington, DC 20002

Mr. Terry Bellamy, Director District Department of Transportation 55 M Street SE, Suite 400 Washington, DC 20003

Mr. William O. Howland, Jr., Director Department of Public Works 2000 14th Street N.W., 6th Floor Washington, DC 20009

Dear Sirs:

The U.S. Environmental Protection Agency (EPA) issued a National Pollutant Discharge Elimination System Permit (NPDES Permit) to DC Water to operate the Blue Plains Advanced Wastewater Treatment Plant and sewer system. The permit requires DC Water to conduct certain activities. In addition to other requirements, the permit requires DC Water to:

Notify responsible agencies to enforce regulations that prohibit entrance into the CSS of any substance that may impair or damage the function and performance of collection and treatment systems. (Page 38, Part III.B.1.g.iv of permit).

Therefore, in accordance with the NPDES Permit, it is requested that the Department of Environment, Department of Transportation and Department of Public Works diligently enforce the appropriate code regulations within respective jurisdictions to ensure the integrity of the combined sewer and treatment systems.

Your support to ensure that this requirement is completed in accordance with the NPDES Permit is appreciated. Thank you for your assistance and please contact me at 202-787-4469 or at <u>Carlton.Ray@dcwater.com</u> if there are any questions.

Sincerely

Carlton M. Ray Director DC Clean Rivers Project

dcwater.com
APPENDIX 8-3

Examples of Agency Coordination for Pollution Prevention



Department of Public Works

 DC.gov dpw.dc.gov

DPW Home Services San	itation Services	Parking Enforcement	Vehicle Management	Regulations	About DPW
Sanitation Services Trash Collection	Listen Leaf and H	oliday Tree Collect	ADD THIS 📲 🎡 🧖) Text Re	esize	Holiday Trash/Recycling Collections
 Recycling Collection Trash and Recycling Collection Schedule Household Hazardous Waste, E- cycling, Document Shredding Leaf and Holiday Tree Collection 	The fall leaf colle first week of Nov week of January. potential acciden slipping on wet le	ction program runs from the ember through the second Collecting leaves reduces ts and injuries caused by eaves, and prevents catch			
 Grattiti Removal Street and Alley Cleaning and Litter Can Collection Snow Removal Solid Waste Education and 	DPW will collect each residential	ins) from clogging and oding during heavy rains. leaves at least twice from neighborhood by			Use our Slide Guide to find out how holidays affect your collection schedule.
Enforcement - SWEEP Litter and Graffiti Prevention Helping Hand Neighborhood Cleanup Transfer Stations (Commercial	"vacuuming" loos sent for composti leaves may be pl collected with the are placed in the	e leaves residents rake into ng. In neighborhoods with a aced where trash and recyc trash as space in the truck curbside treeboxes or in th	their treebox(es). Loose lealley trash/recycling collection ling are collected. These least permits. Bagged leaves, we alley at the point of trash	eaves will be ons, bagged eaves will be whether they	Find Your Trash and Recycling Collections Day(s)
Users) Mowing/Cutting Crew Special Events 	DPW thanks resi may be affected	dents for their patience with by e snow/ice events. The la	leaf and holiday tree colle	ctions, which backbone of	
Department of Public Works	switch from leaf of	a greenery will be collected	between December 28 and	January 10	96 Gallon 32 Gallon 48 Gallon 64 Gallon
	and will be comp collected with the tinsel and other of recycling are coll	osted. Trees and greenery of trash as space permits in t lecorations and put the tree ected.	collected after January 10 he truck. Please remove of (s) and greenery where you	will be rnaments, ur trash and	Enter part or all of any address in the District of Columbia to see your pick up day(s) for Trash and Recycling Collection.
"The Preferred Choice" Office Hours Monday to Friday, 8:15 am to 4:45	Just a reminder, their tenants with	apartment buildings with fou solid waste collections, incl	ir or more units are require uding holiday trees.	d to provide	Find Your Trash and Recycling Collection Schedule
pm, except District holidays	Find the Leaf Co	llection Schedule for Your N	leighborhood		Give Us Your Feedback
Frank D. Reeves Municipal Center 2000 14th Street, NW, Washington, DC 20009	Check Leaf Colle	ction Status in Your Neighb Brochure	orhood		1 A 1
Phone: (202) 673-6833 Fax: (202) 671-0642 TTY: (202) 673-6833 Email:dpw@dc.gov 🖂	The 2014-2015 b brochure.	rochure will be posted by m	nid-October 2014. Click her	re for the	
f 🔰 🐽 🛅 🚳	How You Can H Rake leaves	elp s into the treebox space the	weekend before your stree	et's collection	Take the DPW Website Survey
Ask the Director Agency Performance Language Support Amharic ()	 Please – lease – lease equipment a Prevent fire 	aves only! Tree limbs, bricks and delay collections. s, parking problems and pos	s, dirt, rocks, etc., will dama	age the eaves in the	

Chinese (中文) French (Français) Korean (한국어) Spanish (Español) Vietnamese (Tiếng Việt)



Will Dire treebox space, not in the street. When it rains, leaves will block the storm drain and cause flooding.

· Holiday trees and greenery will be picked up between December 28 and January 10. Please do not put the trees in plastic or cloth bags. Trees collected between December 28 and January 10 will be chipped and composted.

· Any trees not collected by January 10 will be picked up as space in the trash trucks allow over the following weeks.

am O. Howland	l Jr.							
ctor, DPW		Service Detail	s:					
		Leaf and	Holiday Tree Collection					
		Related Servic	:es:					
		Leaf and	Holiday Tree Collection					
		Contact Ema Contact Phot Contact Fax: Contact TTY: Office Hours Service Loca City: Washing State: DC Zip: 20009	il: dpw@dc.gov ⊠ ne: (202) 737-4404 (202) 671-0642 : (202) 673-6833 : Monday to Friday 8:15 tion: GIS Address: 200 gton	am - 4:45 pr 00 14th Street	NW			
		Polatod Conto	n í .					
		Leaf and	Holiday Tree Collection					
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Twitter	Facebook	Mobile	e Maps	We	bcasts	RSS	Data	Subscribe
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	District News		District Initiatives		About DC		Contact Us	
	Citywide News Citywide Calendar Subscribe to Recei Subscribe to Text /	ve Emails Alerts	One City Youth Green DC Grade DC Age-Friendly DC		Open DC Budget Emancipati Consumer	on Protection	Agency Directory Call 311 Contact the Mayor Contact Agency Directors	
	Subscribe to News	letters	Sustainable DC		Contracts		FOIA Requests	
	Government Closu	res	Connect DC Great Streets 72hours Emergency Pl	lanning	Property Q Track DC	uest	Send Feedback Service Request Center	
	* * * A	ccessibility	Privacy and Security	Terms and	Conditions	About DC.	Gov * * *	



Department of Public Works

 DC.gov dpw.dc.gov

Q

DPW Home	Services	Sani	itation Services	Parking Enforcement	Vehicle Management	Regulations	About DPW	
Sanitation S Trash Collect 	ervices		Listen Street and	Canal Alley Cleaning	ADD THIS 📲 🎡 🐲) Text Ri	esize	Holiday Trash/F Collections	Recycling
 Recycling Co Trash and Re Schedule Household H cycling, Docu Leaf and Holi Graffiti Remo Street and A Litter Can Co Scheduled Commercia Street Clea Vacant Lot and Weed 	Ilection azardous Waste ment Shredding day Tree Collect val Iley Cleaning a ollection Residential and I Street Sweepi ning Cleanup - Grass Mowing	nd ng	DPW cleans residusing mechanica Between March 1 sweepers operate where signs are during street swee may be issued for Golf cart-size sw are used to vacu sidewalks in com main arterials, wh	dential and arterial streets I sweepers of various sizes. 10 and October 31, e along residential streets posted restricting parking eeping hours. A \$45 ticket or violating sweeping hours. eepers, known as litter vace um litter from gutters and imercial areas, and larger s hich are swept year-round of	s,	PLIC WORKS 2014 EPING		e to find out how r collection
 Alley Clean Litter Can C Installation 	ing Collection and		How You Can H Pick up the 	elp litter and trash in your alle <u>r</u>	y and around your property,	, rather than	Find Your Trasl Recycling Colle	n and ections Day(s)
 Snow Remov Solid Waste B Enforcement Litter and Gra Helping Hanc Cleanup Transfer Stati Users) Mowing/Cuttii Special Even 	al Education and - SWEEP Iffiti Prevention I Neighborhood ons (Commerci- ng Crew ts	al	 sweeping the rivers. Residential tree box sparesponsible curb into the Use the structure commercial trash. Avoid a stree Cleaning) si 	nese items into the gutter to property owners are respor aces around their property. for the public space around e street. eet litter and recycling cans streets. The litter cans are eet sweeping ticket by obey igns along residential street	eventually end up in one of nsible for maintaining the si- Commercial property owned their property up to 18 inco as you walk along the Dist for pedestrian trash only, n ing the parking (No Parking ts. Eighty percent of the res	of the District's dewalks and rs are thes from the rict's ot household Street sidents of	Enter part or all of a District of Columbia up day(s) for Trash Collection.	any address in the to see your pick and Recycling
Department		orks	these street effective. • Overnight s	ts signed petitions pledging	to move their cars so sweet	eping would be ccurs year-	Find Your Trash Collection Sched	and Recycling ule
"The Pref Office Hours Monday to Frid pm, except Dist Connect With Frank D. Reeve 2000 14th Street	PUBLIC WINKS erred Choid ay, 8:15 am to 4 trict holidays Us as Municipal Cer et, NW, Washing	:e " :45	 To obtain st 	treet and alley cleaning ser	vices, call 311.	vnen parking	Give Us Your F	eedback

DC 20009

Phone: (202) 673-6833 Fax: (202) 671-0642

DPW LEAF COLLECTION PAMPHLET



Vincent C. Gray, Mayo



Good to know...



Bring leaves to Ft. Totten 4900 John F. McCormack Drive, NE.

Monday to Friday, 1 pm to 5 pm Saturday, 8 am to 3 pm. For more information, call 311. We are closed on holidays



Free Compost

Between March and October, pick up compost for garden projects at Ft. Totten Transfer Station,

Saturdays between 8 am and 3 pm. Check the leaf collection status online at www.dpw.dc.gov. <u>%</u>

Prevent water pollution



Keep catch basins clear of loose leaves, debris and trash. Clogged catch basins (storm drains) can cause increased street flooding during heavy rain. Please do not

sweep leaves or sidewalk litter into gutters or catch basins. Organic material, cigarette butts, and trash washed into catch basins contribute to water pollution. To report a clogged catch basin, please call DC Water at 202.612.3400.

Properly dispose of motor oil and other hazardous materials. Do not dump these items into the catch basins to prevent polluting our waterways and harming wildlife. Bring these or other household hazardous waste items and your unwanted electronics to the Fort Totten Trash Transfer Station (address above) every Saturday, except holidays, from 8 am to 3 pm.

2015 Holiday tree pick-up



Place holiday trees and wreaths next to your trash container at your regular collection point. Trees collected between December 28 - January 10 will be recycled. After January 10 trees will be collected with your trash as space allows in the trash trucks.



The Department of Public Works will collect leaves from November 3, 2014 through January 10, 2015. DPW uses vacuum trucks to collect the bulk of the leaves, which are then composted. We urge residents to follow the schedule detailed in this brochure when planning to rake loose leaves into piles in the treebox space for collection.

DPW will collect bagged leaves from the treebox space. In neighborhoods with alley trash/recycling collections, bagged leaves also may be placed where trash and recycling are collected. These leaves will be disposed with the trash as space allows in the truck.



Tips for a Smooth-Running Leaf Collection Season

Review the schedule in this brochure for your street's collection weeks.

Rake leaves into the treebox space by the Sunday scheduled in the brochure.

Once we serve your area, we will not return until your next scheduled leaf collection week.

Please – leaves only! Tree limbs, bricks, dirt, rocks, etc., will damage the equipment and delay collections.

Prevent fires and parking problems by placing leaves in the treebox space, not in the street.



Leaf Collection Facts

Every street will have at least two collections. During the first pass, crews will vacuum loose leaves from the treebox space, collect bagged leaves, and clear potentially hazardous situations. The second pass features a more thorough cleaning.

Collections will be made on Veterans Day (Tuesday, November 11th) and Thanksgiving Day (Thursday, November 27th). No collections will be made Christmas Day (Thursday, December 25th or on New Year's Day (Thursday, January 1st).



Snow and ice events will disrupt the leaf collection schedule because DPW leaf collection staff support the Snow and Ice Control Program. Expect schedule delays when snow/ice storms are predicted.

Ward 1



Area A West side of 16th Street, NW

Rake Leaves November 2 November 30

Out By Sunday: For Collection From: November 3 to 15 December 1 to 13

Area B East side of 16th Street, NW

Rake Leaves Out By Sunday: November 16

December 14

For Collection From:



DPW will collect your leaves, even if the schedule is delayed due to weather or other circumstances. Please be patient. **Bagged leaves**, placed in the resident's alley trash collection site, will be collected

with the trash. Check the leaf collection status online at www.dpw.dc.gov.

Ward 2



Area A West side of 23rd Street, NW

Rake Leaves Out By Sunday: November 2 November 30

For Collection From: November 3 to 15 December 1 to 13

Area B East side of 23rd Street, NW

Rake Leaves Out By Sunday: November 16 December 14

For Collection From:



Area A

West side of Nebraska Avenue, Loughboro Road and Chain Bridge Road, NW

Rake Leaves Out By Sunday:

For Collection From:

November 2 November 30 December 28 November 3 to 15 December 1 to 13 December 29 to January 3

Area B

East side of Nebraska Avenue, Loughboro Road and Chain Bridge Road, NW

Rake Leaves Out By Sunday:

November 16 December 14

January 4

For Collection From:

November 17 to November 29 December 15 to December 27 January 5 to 10



Area A

West side of Georgia Avenue, NW

Rake Leaves Out By Sunday: November 2 November 30 December 28

For Collection From:

November 3 to 15 December 1 to 13 December 29 to January 3

Area B

East side of Georgia Avenue, NW

Rake Leaves Out By Sunday:

November 16 December 14 January 4

For Collection From:

November 17 to November 29 December 15 to December 27 January 5 to 10



Rake Leaves Out By Sunday:

November 2 December 7

For Collection From: November 3 to 15 December 8 to 20

Area B

South side of Monroe Street, NE to North side of New York Avenue, NE

Rake Leaves Out By Sunday: November 16 December 21

Out By Sunday: For Collection From:

November 17 to November 29 December 22 to January 3

Area C

South side of New York Avenue, NE

Rake Leaves Out By Sunday:

November 30 January 4 For Collection From:

December 1 to December 6 January 5 to January 10



Area A

North side of East Capitol Street, NE

Rake Leaves Out By Sunday:

November 2 November 30

For Collection From: November 3 to 15

December 1 to 13

Area B South side of East Capitol Street, SE

Rake Leaves Out By Sunday: November 16

December 14

For Collection From:



Area A North side of East Capitol Street, NE

Rake Leaves Out By Sunday: November 2 November 30

For Collection From: November 3 to 15 December 1 to 13

Area B South side of East Capitol Street, SE

Rake Leaves Out By Sunday:

November 16 December 14

For Collection From:



Area A

North side of Atlantic Street and Mississippi Avenue, SE

Rake Leaves Out By Sunday: November 2 November 30

Out By Sunday: For Collection From:

November 3 to 15 December 1 to 13

Area B

South side of Atlantic Street and Mississippi Avenue, SE

Rake Leaves Out By Sunday: November 16 December 14

For Collection From:

Follow the progress of leaf collection at **www.dpw.dc.gov**

If you need information about leaf collection in Spanish, Chinese, Vietnamese, Korean or Amharic, please see inside or call 202 673 6833.



Solid Waste Management Administration 2750 South Capitol Street, SE Washington, DC 20032

Si necesita información sobre el servicio de recogido de hojas, sirvase llamar al (202) 673-6833.

如果您需要有關樹葉收集的資訊,請電 (202) 673-6833。

낙엽 수집에 대한 정보를 원하시면, (202) 673-6833번호로 현락하십시오.

Nếu bạn cần thông tin về sưu tầm là cây, vui lòng gọi số điện thoại (202) 673-6833.

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Section 9 Public Notification

9.1 NPDES PERMIT REQUIREMENTS

The requirements in the NPDES permit for this NMC are summarized as follows:

- Install and operate two CSO warning lights, one light on the Anacostia River and a second light on the Potomac River to notify river users of CSO events.
- Maintain a website with information on: (a) nature of CSO discharges; (b) locations of CSOs; (c) potential health threats of CSOs; (d) record of CSO events by outfall with number, average duration and volume for the prior three month calendar quarter based on modeled results; (e) description of light system on the Anacostia River and Potomac River that advises river users of times that CSOs are actually occurring; and (f) nature and duration of conditions potentially harmful to users of receiving waters during and after a CSO event.
- Prepare and distribute semi-annually in sewer bills an informational pamphlet with information similar to that maintained on the web site.
- Distribute a pamphlet semi-annually to locations (e.g., boathouses, marinas, water sports shops) frequented by receiving water users.
- Prepare and maintain an information bulletin to distribute to callers requesting information on the CSS and CSOs.
- Include updates and status of CSS and CSO plans and programs in information distributed to the public.
- Maintain warning signs at all CSOs.

9.2 CSO WARNING LIGHTS

The Three Party Consent Decree (CD) requires the construction of CSO notification lights at two locations: in the vicinity of CSO 010-12 (Main and O St. Pumping Station site) on the Anacostia, and at Thompson's Boathouse on the Potomac River. The lights are located as follows:

• Potomac River Site – The installation of the required CSO Warning Light is complete. The location of the Potomac River light is adjacent to Thompson's Boat House. • Anacostia River Site – The installation of the required CSO Warning Light is complete. The location of the Anacostia River light is adjacent to Main Pumping Station.

9.3 CSO WEBSITE

A portion of the DC Water website is dedicated to providing information to the public on pertinent combined sewer issues. Examples of the website and the information contained therein can be found in Appendix 9-1. The website is updated at least quarterly and the following information is included:

- The nature and locations of CSO's
- Potential health implications of CSO's
- Quarterly monitoring reports with CSO predictions
- Description of CSO warning light system
- Description of nature and duration of impacts from CSO's on receiving water

The web site can be viewed at <u>www.dcwater.com</u>. CSO information is at the following link: <u>http://www.dcwater.com/wastewater_collection/css/</u>

9.4 INFORMATIONAL MAILERS

Informational mailers are included in customers' water and sewer bills twice per year. Copies from this past year's mailer 'CSO Update" are included in Appendix 9-2. A portion of the mailer provides updates on CSS related programs and projects. The remaining content of the mailer is in accordance with the requirements of the Three Party Consent Decree.

The mailer is also distributed to boathouses, marinas and other interested parties twice per year. In 2014, the organizations listed in Table 9-1 accepted the mailer:

Organizations	Location
Belle Haven Marina Inc.	Alexandria, Virginia.
Buzzard Point Boat Yard	Washington D.C
Capital Rowing Club	Washington D.C
Capital Yacht Club	Washington D.C.
Columbia Island Marina	Arlington, Virginia.
District Yacht Club	Washington D.C.
Fletcher's Boat House	Washington D.C
Fort Washington Marina	Fort Washington, Maryland.
Gangplank Marina	Washington D.C
Earth Conservation Corps	Washington D.C
James Creek Marina	Washington D.C.

Table 9-1Organizations That Accepted Mailers

Old Dominion Boat Club	Alexandria, Virginia.
Potomac Boat Club	Washington D.C.
Seafarers Boat Club	Washington D.C.
Thompson's Boat Center	Washington D.C.
Tidal Basin Boat House	Washington D.C.
Washington Canoe Club	Washington D.C.
Washington Marina Company	Washington D.C.
Washington Sailing Marina	Alexandria, Virginia.
Washington Yacht Club	Washington D.C
Anacostia Watershed Society	Bladensburg, Maryland.
National Capital Park – East	Washington D.C.
Buzzard Point Boat Yard	Washington D.C
Key Bridge Boathouse	Washington, D.C.

9.5 INFORMATION BULLETIN

Informational Bulletins that cover pertinent CSO topics are distributed by DC Water Customer Service Representatives to the public on request. A copy of the Informational Bulletin is included in Appendix 9-3.

9.6 CSO WARNING SIGNS

The Three-Party Consent Decree required DC Water to install larger CSO warning signs at sites it controlled, and to seek approval to install these new signs at locations controlled by the National Park Service, the Zoo, the Southeast Federal Center and the Navy Yard. The Zoo was the only approval agency that allowed installation of the larger signs. As a result, the following signs are installed at CSO outfalls:

• At DC Water controlled sites (CSO 001, 003, 009, 010, 011, 011a, 012) and at National Zoo controlled sites in Rock Creek (CSO 041, 042, 043, 044 and 045), the following 3' x 4' signs are installed:



• For all other outfalls, the signs shown below are installed. In accordance with a permit negotiated with the National Park Service, signs are 1' x 1' in size along Rock Creek and 2' x 2' in size along the Anacostia and Potomac Rivers.



APPENDIX 9-1

Excerpts from DC Water's Website



- Cleaning Our Waterways
- Chesapeake Bay
- <u>Understanding the</u>
 <u>Watershed</u>
- Partnerships and Community Activities
- Environmental Education
- Environment-Related Links
- For Kids



The water in the Potomac River, Anacostia River, and Rock Creek flows into the District from outside jurisdictions. For example, the Potomac River begins in West Virginia, while the Anacostia River begins in Maryland. The quality of water in the District is thus affected by activities throughout the watershed. Storm water runoff from commercial, industrial, residential and agricultural sites, point source pollutants from wastewater treatment plants and industrial discharges, and combined sewer overflows(CSOs) from as far away as West Virginia and Pennsylvania all contribute to the quality of water in the District.

Multiple jurisdictions comprise the watersheds as shown below:





What Are the Water Quality Impacts of CSO?

CSOs can adversely affect the quality of our receiving waters in the following ways:

- CSOs contain material which contributes to high bacteria levels in the receiving waters;
- Organic material in CSOs can contribute to low dissolved oxygen levels, which can contribute to a potential for fish stress or fish kills, especially in summer months; and,
- ▶ Debris in CSOs such as plastic bottles, styrofoam cups (otherwise known as "floatables") contribute to poor aesthetics.

DC Water has developed the Clean Rivers Project to control CSOs and improve water quality

TOP **†**

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What We Do

Preventing Sewer Overflows

You Can Help!

You can help improve the water quality in the District.

Please don't litter or use catch basins as trash receptacles! In addition to the unpleasant physical appearance, trash and debris deposited on public streets, private property and right-of-ways often washes into catch basins and storm inlets.





Don't use catch basins as trash receptacles or to dispose of leaves! Debris in catch basins can cause local flooding and increase the potential for dry weather overflows (see photo below).



Handle household hazardous wastes responsibly! Improperly handled wastes often end up in storm, sanitary or combined sewers, increasing the potential for introduction into the environment. Examples of some typical household hazardous wastes include: paint, insecticides, cleaning fluids, and used automobile oil.

DC Water Is Doing Its Part! DC Water is doing its part to control & remove solids, floatables, and trash on the receiving waters.



Help Stop Dry Weather Overflows! During dry weather conditions, sanitary wastewater in the combined sewer system is not

Drinking Water

- Wastewater Collection
 - History of Sewer System
 - Combined Sewer System
 - CSS Contacts
 - Preventing Sewer
 <u>Overflows</u>
 - CSO Predictions
 - CSS Reports
 - Sanitary Sewer System
 - Potomac Interceptor
 - Catch Basins
- Wastewater Treatment
- Finance
- Fire Hydrants
- Projects & Initiatives

usually discharged to receiving waters. However, regulators, which control the flow of sanitary and storm waste in combined sewers, can become blocked by debris, trash, and other materials. When this occurs, the regulator's functions can be impaired and can result in minor overflows during dry weather. These are called Dry Weather Overflows (DWOs). DC Water has an intensive maintenance and inspection program to prevent DWOs from occurring. When DWOs do occur, DC Water corrects them and takes measures to prevent their recurrence.



Report Dry Weather Overflows

If you notice a sewer overflow issue during dry weather, please call DC Water at 202-612-3400.

Contact Us Careers Site Map Privacy Policy

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2011			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	460 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	365 KB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	357 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	379 KB
2010			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	367 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	912 KB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	364 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	353 KB
2009			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	414 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	896 KB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	426 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	395 KB
2008			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	368 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	373 KB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	407 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	2.4 MB
2007			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	385 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	476 KB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	390 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	388 KB
2006			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	402 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	1 MB
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	402 KB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	393 KB
2005			
4th Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	404 KB
3rd Quarter	Combined Sewer Overflow Facilities Quarterly	PDF	1.1 MB

	Report		
2nd Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	1 MB
1st Quarter	Combined Sewer Overflow Facilities Quarterly Report	PDF	1 MB
Long-Term C	ontrol Plan Consent Decree Quarterly Rep	orts	
C Water Reports aplementation of quirement of the overnment.	to the United States Environmental Protection Agen its long term plan for controlling CSOs (the Clean Riv CSS LTCP Consent Decree between DC Water and	cy quartei /ers Proje I the Fede	'ly on the ct). This is ral
Date	Title	Туре	Size
2014			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	332 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	324 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	323 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	118 KB
2013			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	120 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	299 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	298 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	297 KB
2012			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	243 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	241 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	114 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	243 KB
2011			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	114 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	240 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	118 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	120 KB
2010			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	81 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	120 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	174 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	177 KB

4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	95 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	175 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	173 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	209 KB
2008			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	86 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	130 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	126 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	131 KB
2007			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	71 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	128 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	126 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	124 KB
2006			
4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	123 KB
3rd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	131 KB
2nd Quarter	Long Term Control Plan Consent Decree Status Report	PDF	131 KB
1st Quarter	Long Term Control Plan Consent Decree Status Report	PDF	71 KB
2005			
2005 4th Quarter	Long Term Control Plan Consent Decree Status Report	PDF	132 KB
2005 4th Quarter 3rd Quarter	Long Term Control Plan Consent Decree Status Report Long Term Control Plan Consent Decree Status Report	PDF PDF	132 KB 125 KB
2005 4th Quarter 3rd Quarter 2nd Quarter	Long Term Control Plan Consent Decree Status Report Long Term Control Plan Consent Decree Status Report Long Term Control Plan Consent Decree Status Report	PDF PDF PDF	132 KB 125 KB 241 KB
2005 4th Quarter 3rd Quarter 2nd Quarter 1st Quarter	Long Term Control Plan Consent Decree Status Report Long Term Control Plan Consent Decree Status Report Long Term Control Plan Consent Decree Status Report Long Term Control Plan Consent Decree Status Report	PDF PDF PDF PDF	132 KB 125 KB 241 KB 203 KB

DC Water reports to EPA and the parties to the Nine Minimum Control Consent Decree on progress in completing the projects identified in the 3-Party Consent Decree. Providing these reports is a requirement of this Consent Decree. DC Water is committed to having these reports available to the public

Date	Title	Туре	Size
2014			
4th Quarter	3-Party Consent Decree Status Report	PDF	291 KB
3rd Quarter	3-Party Consent Decree Status Report	PDF	290 KB
2nd Quarter	3-Party Consent Decree Status Report	PDF	289 KB
1st Quarter	3-Party Consent Decree Status Report	PDF	129 KB
2013			

3rd Quarter3-Party Consent Decree Status ReportPDF264 KB2nd Quarter3-Party Consent Decree Status ReportPDF263 KB2012	4th Quarter	3-Party Consent Decree Status Report	PDF	106 KB
2nd Quarter3-Party Consent Decree Status ReportPDF264 KB1st Quarter3-Party Consent Decree Status ReportPDF203 KB2rd Quarter3-Party Consent Decree Status ReportPDF202 KB2nd Quarter3-Party Consent Decree Status ReportPDF202 KB2nd Quarter3-Party Consent Decree Status ReportPDF109 KB1st Quarter3-Party Consent Decree Status ReportPDF202 KB2nd Quarter3-Party Consent Decree Status ReportPDF100 KB3rd Quarter3-Party Consent Decree Status ReportPDF109 KB1st Quarter3-Party Consent Decree Status ReportPDF107 KB2nd Quarter3-Party Consent Decree Status ReportPDF121 KB1st Quarter3-Party Consent Decree Status ReportPDF122 KB200200820082008200820102010201202 KB20102010202 KB20120103-Party Consent Decree Status ReportPDF123 KB20103-Party Consent Decree Status ReportPDF123 KB20103-Party Consent Decree Status ReportPDF123 KB20113-Party Consent Decree Status ReportPDF186 KB20123-Party Consent Decree Status	3rd Quarter	3-Party Consent Decree Status Report	PDF	264 KB
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Combined Sewer System Contacts - DC Water - District of Columbia Water and Sewer Authority



- ▶ For questions about CSOs, please call Ron Bizzarri, DC Water CSO Program Manager at 202-787-4473 or send an email to ronald.bizzarri@dcwater.com.
- In February 2007, management of the District's stormwater permit was transferred to the District Department of the Environment (DDOE). For more information, please visit DDOE's website or call DDOE at 202-535-2600.
- ▶ For all other matters, please contact DC Water at 202-787-2000 or click here for additional DC Water contact information.

Public Information Depositories

DC Water maintains copies of public information for review at the following public libraries in the District:

Martin Luther King, Jr. Library	Capitol View Library
901 G St. NW Washington, DC	5001 Central Ave. SE Washington, DC
Mount Pleasant Library	Northeast Library
3160 16th St. NW Washington, DC	330 7th St. NE Washington, DC
Southeast Library	Shepherd Park Library
403 7th St. SE Washington, DC	7420 Georgia Ave. NW Washington, DC
Tenley-Friendship Library	Washington Highlands Library
4200 Wisconsin Ave. NW Washington, DC	115 Atlantic Street SW Washington, DC
Woodridge Library 1801 Rhode Island Avenue, NEWashington, DC	

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History of Sewer System

Combined Sewer System
 <u>CSS Contacts</u>

Preventing Sewer

CSO PredictionsCSS Reports

Sanitary Sewer SystemPotomac Interceptor

Overflows

Catch BasinsWastewater Treatment

Finance
Fire Hydrants
Projects & Initiatives

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Combined Sewer Overflow Model Predictions - DC Water - District of Columbia Water and Sewer Authority





Home > What We Do > Projects & Initiatives > Clean Rivers Project

What We Do

Wastewater CollectionWastewater Treatment

Projects & Initiatives
Active Workzones

Program

Capital Improvement

Clean Rivers Project

About the Clean Rivers Project

Anacostia River Tunnel

Clean Rivers Project Facilities Quarterly

<u>Clean Rivers Project</u> <u>Quarterly Status</u>

Clean Rivers Project

Current/Future Tunnel Capacity (PDF)

DC Water's Green Infrastructure Plan

First Street Tunnel Green Infrastructure at

DC Water Facilities Groundbreaking

Irving Street Green

Lady Bird Tunnel Boring Machine

Infrastructure Project

McMillan Stormwater

Potomac River Tunnel

Northeast Boundary

The DC Watershed

Protection Project

Ceremony

Low-Impact

Project

Development

Storage Project

Tunnel Project Photo Gallery

The Northeast

<u>Boundary</u> <u>Neighborhood</u>

DC Water Digester

Seeding Project

Stimulus funds Projects16th & Alaska Pumping

Station Rehabilitation

▶ <u>A Drop's Life</u>

Reports

Reports

Updates

Drinking Water

Fire Hydrants

Finance

Clean Rivers Project

Restoring Our Rivers

The Clean Rivers Project is DC Water's ongoing program to reduce combined sewer overflows into the District's waterways - the Anacostia and Potomac Rivers and Rock Creek. The Project is a massive infrastructure and support program designed to capture and clean water during heavy rainfalls before it ever reaches our rivers

Protecting Our District

With the Clean Rivers Project, DC Water will protect the public from possible harmful substances in our wastewater. It is also cleaning up our waterways, by reducing the pollutants that enter our rivers and can be harmful to our wildlife.



What can you find in this section?

- A Drop's Life Learn about the Clean Rivers Project from the perspective of a single water drop, in this 4-1/2-minute cartoon.
- About the Clean Rivers Project Learn how the Clean Rivers Project works
- Anacostia River Tunnel

The Anacostia River Tunnels project is the first Long-Term Control Plan project to begin construction. Check here for updates as the project progresses.

- Clean Rivers Project Facilities Quarterly Reports
- Clean Rivers Project Quarterly Status Reports
- Clean Rivers Project Updates
 Our semiannual updates on the project
- Current/Future Tunnel Capacity (PDF 52 kb)
- DC Water's Green Infrastructure Plan DC Water Proposes Modifying Long Term Control Plan for Green Infrastructure
- First Street Tunnel
 First Street Tunnel
- Green Infrastructure at DC Water Facilities Green Infrastructure at DC Water Facilities
- Groundbreaking Ceremony
 Senator Benjamin Cardin, Congresswoman Eleanor Holmes Norton, Mayor Vincent Gray and others joined DC Water to break ground on the Clean Rivers Project October 12, 2011.
- Irving Street Green Infrastructure Project
- Lady Bird Tunnel Boring Machine
- Low-Impact Development DC Water is exploring the use of low-impact development to capture stormwater before it enters our system.
- McMillan Stormwater Storage Project
- Potomac River Tunnel Project Potomac River Tunnel Project
- Northeast Boundary Tunnel Project Northeast Boundary Tunnel Project
- Photo Gallery

Project

- 17th Street NE/SE Water Main Installation and Replacement
- Anacostia Elevated
 Water Storage Tower
 Project
- Bryant Street Pumping Station Discharge Piping Replacement Project
- Fort Reno Pumping Station Rehabilitation <u>Project</u>
- Fort Stanton Reservoir Rehabilitation Project
- Glover-Archbold Park Sewer Rehabilitation Project
- Inspection of Sewers Under Buildings
- Internal Joint Repair Projects
- Large Valve Replacement Projects
- Low Area Trunk Sewer Rehabilitation Project
- Oxon Run Sewer Rehabilitation Project
- Park Drive SE and 32nd Street Gully Restoration Project
- Piney Branch Trunk Sewer Rehabilitation Project
- Pope Branch Rehabilitation
- Potomac Interceptor
- Pressure Zone Improvement Program (PZIP)
- Small Diameter Water Main Replacement Projects
- Spring Place Water and Sewer Rehabilitation Project
- Soapstone Valley Park Sewer Rehabilitation Project
- Spring Valley Water Main Upgrades

- The DC Watershed Where the water flows
- The Northeast Boundary Neighborhood Protection Project The Northeast Boundary Neighborhood Protection Project

http://www.dcwater.com/workzones/projects/cleanrivers.cfm[2/6/2015 1:16:00 PM]

APPENDIX 9-2

Informational Mailers



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY BIANNUAL REPORT APRIL 2014

COMBINED SEWER OVERFLOW (CSO) CONTROL ACTIVITIES

CLEAN RIVERS PROJECT NEWS

ROCK CREEK AND POTOMAC RIVER CSO CONTROLS



Thinking green: DC Water proposes to modify Long Term Control Plan to include green infrastructure

Since General Manager George Hawkins took the helm of DC Water in 2009, he has been steering the Authority on a course to capture the benefits of green infrastructure. He recently introduced an ambitious plan to invest nearly \$100 million to green parts of the city on a grand scale, thereby reducing runoff and allowing for a greatly reduced gray (or tunnel-only) solution to Combined Sewer Overflows (CSOs) in two areas of the District. Green infrastructure (GI) includes practices such as green roofs, bioretention areas, and permeable pavement that mimic natural water cycles (through reducing or slowing stormwater runoff) in the urban environment. GI provides communities with triple-bottomline benefits--environmental, social and economic. The Long Term Control Plan (LTCP) modification proposal was unveiled on January 22 at the Green Infrastructure Summit and is widely advertised during a lengthy public comment period. The public is urged to comment on the proposed changes to the Long Term Control Plan during the comment period which ends on April 14th.

The departure from the current LTCP includes eliminating the Rock Creek tunnel in its entirety and considerably reducing the length of the Potomac tunnel. The Rock Creek tunnel would be replaced by \$60 million of green infrastructure. If approved by US EPA and the Department of Justice, the Potomac River solution will be a combination of GI, sewer separation and tunnel storage. The

DC Water GI Challenge Encourages Creative Concepts in Large-Scale GI Projects

While DC Water seeks an ambitious green infrastructure approach in public space, the Authority also launched a unique design challenge aimed to encourage the private sector to think creatively, and on a larger scale, for new ways to capture runoff. The results included ideas to green community areas in park-like settings as well as to use creative approaches such as blue roofs that capture and hold rain water, reminiscent of a retention pond.

The first phase of the challenge is complete and the second phase is underway. In the first phase, seven design teams were selected as winners based on their concepts and designs. In the



Team McKissack won for its innovative design "Symbiotic Streetscapes."

second phase, some of those designs will be funded for further design and construction.

In Phase I, DC Water worked in cooperation with the District Department of Transportation (DDOT) to identify two public space sites in the public Right-of-Way to serve as competition sites. Many firms used this opportunity to develop innovative submissions that maximized stormwater capture from impervious surfaces such as sidewalks, parking lanes, and roadways.

In Phase II, DC Water will fund several of the winning concepts. A subset of the seven winners will be selected and DC Water will award up to \$1 million total to advance the concepts to final design and construction. The seven winners for the first phase of the GI Challenge are being invited to provide proposals that DC Water will evaluate for feasibility to construct. DC Water expects to award funds for final design in late 2014 with anticipated construction in 2015.

For more information on the green challenge visit: dcwater.com/greenchallenge.

continued from page | **Thinking green**

dense, urban area closer to the National Mall would still be served by tunnel storage. The three most westerly CSO outfalls in Georgetown would be addressed by GI and smaller, combined sewersheds in between would be separated. The GI portion of this area would cost \$30 million.

If this proposal is approved, DC Water would begin constructing the first green infrastructure projects in the Rock Creek and Potomac River drainage areas as early as 2015 and 2017 respectively. Under the proposed approach, projects will be underway much earlier and the corresponding water quality benefits would begin to accrue sooner than with the current LTCP.



Recently constructed and planted green infrastructure roof at Fort Reno mimics natural processes to control stormwater

Under the current LTCP, water quality benefits are not realized in Rock Creek and the Potomac River until the full tunnel projects are completed in 2025. Under the proposed plan, each GI project contributes to cleaner waterways in the District as soon as it comes online. In addition to reducing CSOs, GI will provide local, green jobs; increase habitat; provide shade and cool summer temperatures; improve air quality; and provide neighborhood amenities for District residents.

What is a Combined Sewer?

A combined sewer is a single pipe that carries both sanitary wastewater and stormwater runoff. Many older cities in the United States are served by combined sewers. In the District, the combined sewer system was designed and built by the U.S. Army Corps of Engineers. Modern practice is to build two pipes in the street—one for stormwater runoff, and one for wastewater from homes and businesses.



What is a CSO and why does it occur?

A CSO is a combined sewer overflow. During dry weather, sewage from homes and businesses is conveyed to the District's wastewater treatment plant at Blue Plains, where the wastewater is treated to remove pollutants before being discharged to the Potomac River. During certain rainfall conditions, the capacity of a combined sewer may be exceeded. When this occurs, the excess flow, a dilute mixture of wastewater and stormwater runoff, is discharged to the Anacostia River, Potomac River, Rock Creek and tributary waters. The Federal Clean Water Act allows CSOs, but the Environmental Protection Agency (EPA) requires communities to develop a plan to address overflows. There are 53 CSO outfalls listed in DC Water's existing discharge permit from the EPA.

When do CSOs occur?

CSOs occur during wet weather and are more frequent in wet years than dry years. During years with average rainfall, DC Water estimates that combined sewers overflow into the Anacostia and Potomac rivers about 75 times annually, spilling nearly 1.5 billion gallons into the Anacostia and 850 million gallons into the Potomac. Rock Creek averages 30 CSO events and 52 million gallons of overflow a year.

Where are CSO Outfalls?

There are 10 CSO outfall locations on the Potomac River, 15 on the Anacostia River and 28 along Rock Creek and its tributaries. DC Water has posted signs for each outfall location.

What are the possible public health impacts of CSOs?

CSOs may pose a danger to the public because of the rapid flow of water exiting the outfalls and the potentially harmful substances it may contain. The public is advised to stay away from any sewer pipe discharge. CSOs could affect the receiving waters for up to 24 hours during small rainstorms and for up to three days when it rains one inch or more.

What are the environmental impacts of CSOs?

CSOs can adversely affect the quality of rivers and streams by contributing to high bacterial levels and low dissolved oxygen levels, which is harmful to fish and other aquatic life.

What is a Dry Weather Overflow (DWO)?

In dry weather, sanitary wastewater normally flows to the Blue Plains Advanced Wastewater Treatment Plant through pipes with regulators. During wet weather, regulators are designed to let the excess flow discharge directly to a river or creek. If regulators become blocked by debris or trash, wastewater can also overflow during dry weather. This is called a dry weather overflow (DWO). DC Water has an intensive maintenance and inspection program to prevent DWOs from occurring. If you see a CSO outfall discharging during dry weather, call DC Water at (202) 612-3400.

Where can you get more information?

You can learn more by visiting DC Water's website at **dcwater.com/cleanrivers**.You may also contact DC Water's Office of External Affairs at (202) 787-2200.

The complete text of the Long Term Control Plan for Combined Sewer Overflows can also be found at the following public libraries: Capitol View, Mount Pleasant, Northeast, Woodridge, Southeast, Shepherd Park, Tenley-Friendship and Washington Highlands.



George S. Hawkins, General Manager

ССЕДИ ВІУЕРЗ РВОЈЕСТ ИЕWS

CONBINED SEMER OVERFLOW (CSO)

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY BIANNUAL REPORT APPRIL 2014





Basics: What is Green Infrastructure?

Green infrastructure (GI) uses plants, trees and other practices to mimic natural processes to control stormwater, resulting in cleaned, cooled, and slowed stormwater runoff. These systems promote rainwater detention and infiltration into the soil and include techniques such as bioretention or rain gardens, porous pavements, green roofs and other technologies. The techniques can be implemented individually or connected such that runoff flows through and is treated by multiple practices in a "treatment train" to maximize pollutant reductions and runoff retention.

By integrating natural processes into the urban environment, GI provides not only stormwater management, but also additional benefits such as improved air quality, greener urban spaces, added wildlife habitat, increased property values, and improved livability in the District. These benefits are realized though GI implementation like the green roof recently constructed on top of the 5.8 million gallon covered drinking water reservoir at Fort Reno which converted almost one acre of impervious surface to a greener alternative.

GI implementation does not stop with DC Water. District agencies are also installing GI at schools, in alleys and other spaces within the District through programs such as RiverSmart. In addition, residents will see much more GI constructed through redevelopment activities that trigger DDOE's recently implemented stormwater management regulations.

Porous pavement absorbs water through the surface and allows it to penetrate to the ground underneath

Green roofs absorb rain water through vegetation

Permeable pavers all water infiltration to prevent runoff







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DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY BIANNUAL REPORT OCTOBER 2014 COMBINED SEWER OVERFLOW (CSO) CONTROL ACTIVITIES

CLEAN RIVERS PROJECT NEWS

Construction of the First Street Tunnel All four staging areas are under construction

Basement or street flooding during a rainstorm is a major concern for many DC residents. In portions of the District with combined sewer systems, the system is designed to overflow to the nearest waterway during rainstorms to keep combined sewage out of streets and buildings. However, in large storm events the Bloomingdale and LeDroit Park neighborhoods experience flooding when the combined sewer system capacity is exceeded, as shown in the photo below.

One of the goals of DC Water's Clean Rivers Project is to reduce chronic flooding for the Bloomingdale and LeDroit Park neighborhoods. DC Water is putting in place several engineering measures to bring relief to the community. The heart of this local flood prevention effort is the construction of the First Street Tunnel, a 20-foot in diameter, 2,900-foot long tunnel running under First Street, NW beginning at the McMillan Sand Filtration site and ending at First Street, NW and Rhode Island Avenue, NW.

The First Street Tunnel Project requires four surface construction staging areas in this well-established and densely populated community. All four areas are now actively under construction. Sewer diversion chambers and associated structures are being built to direct stormwater and wastewater flows into a new storage tunnel. Construction activities are located at the following intersections: First and Thomas Streets, NW; First and V Streets, NW; Adams Street, NW and Flagler Place, NW; along with the main mining shaft located at the southwest corner of the McMillan Sand Filtration site at First and Channing Streets, NW (shown in the photo above).





(Above) Construction staging area at the SW corner of the McMillan Sand Filtration site at First and Channing streets, NW.

(Left) Flooding along Rhode Island Avenue (2012)

Photo courtesy of Boundary Stone

DC Water brings CSO relief to Anacostia River first



Base slab construction at Blue Plains Tunnel shaft

The Anacostia River can be picturesque in the summer, especially with the return of wildlife like great egrets and blue herons, but it is also slow moving and shallow, and collects pollutants from upstream that take weeks to move through the river. Add the combined sewer overflows (CSO) that occur

during heavy rains, and it is easy to understand why the Anacostia is one of the District's most impaired waterways. DC Water began its CSO mitigation efforts on the Anacostia first with a plan for a 13.1 mile tunnel system that is made up of four distinct portions. The first, the Blue Plains Tunnel, is already underway with a tunnel boring machine (TBM) named Lady Bird. She is halfway through her journey from the plant at Blue Plains to near Nationals Stadium.

A second large tunnel boring machine (TBM) will make its way from RFK Stadium to Poplar Point. This second TBM will work simultaneous to Lady Bird. Just as large, this TBM was built in Schwanau, Germany at the Herrenknecht factory. Testing went well earlier this year and the TBM is slated for delivery to DC this month. She will begin her journey in 2015.



Anacostia River Tunnel Boring Machine



Lady Bird soars up the river

Lady Bird, the tunnel boring machine launched by DC Water last year, has been chewing towards the Anacostia River on her way to Main Pumping Station near Nationals Stadium. She achieved a milestone in September as she broke through into a drop shaft on Joint Base Anacostia Bolling. There, she rested briefly while her engineer caretakers performed maintenance and minor repairs on her cutter wheel as shown in the adjacent photo. Lady Bird is nearly halfway through the 4.5 mile journey and should complete her leg of the tunnel system in 2015. Her record for one day of mining and tunnel-building is 132 linear feet. To follow her progress, please visit *dcwater.com/ladybird*.

In addition to the tunnel system, crews have been busily building the facilities that will be necessary to treat the additional wastewater once the system is operating. The shaft that was built to lower Lady Bird underground is now being converted to a "dewatering shaft" that will house a 15(+) story underground pumping station that will be used for the treatment process. The concrete shaft base is 25 feet thick and approximately 138 feet in diameter, which required about 12,000 cubic yards of concrete.

Front view of Lady Bird. Here, she breaks through the earth and the cutterhead face receives maintenance and repair.

What is a Combined Sewer?

A combined sewer is a single pipe that carries both sanitary wastewater and stormwater runoff. Many older cities in the United States are served by combined sewers. In the District, the combined sewer system was designed and built by the U.S. Army Corps of Engineers. Modern practice is to build two pipes in the street—one for stormwater runoff, and one for wastewater from homes and businesses.



What is a CSO and why does it occur?

A CSO is a combined sewer overflow. During dry weather, sewage from homes and businesses is conveyed to the District's wastewater treatment plant at Blue Plains, where the wastewater is treated to remove pollutants before being discharged to the Potomac River. During certain rainfall conditions, the capacity of a combined sewer may be exceeded. When this occurs, the excess flow, a dilute mixture of wastewater and stormwater runoff, is discharged to the Anacostia River, Potomac River, Rock Creek and tributary waters. The Federal Clean Water Act allows CSOs, but the Environmental Protection Agency (EPA) requires communities to develop a plan to address overflows. There are 53 CSO outfalls listed in DC Water's existing discharge permit from the EPA.

When do CSOs occur?

CSOs occur during wet weather and are more frequent in wet years than dry years. During years with average rainfall, DC Water estimates that combined sewers overflow into the Anacostia and Potomac rivers about 75 times annually, spilling nearly 1.5 billion gallons into the Anacostia and 850 million gallons into the Potomac. Rock Creek averages 30 CSO events and 52 million gallons of overflow a year.

Where are CSO Outfalls?

There are 10 CSO outfall locations on the Potomac River, 15 on the Anacostia River and 28 along Rock Creek and its tributaries. DC Water has posted signs for each outfall location.

What are the possible public health impacts of CSOs?

CSOs may pose a danger to the public because of the rapid flow of water exiting the outfalls and the potentially harmful substances it may contain. The public is advised to stay away from any sewer pipe discharge. CSOs could affect the receiving waters for up to 24 hours during small rainstorms and for up to three days when it rains one inch or more.

What are the environmental impacts of CSOs?

CSOs can adversely affect the quality of rivers and streams by contributing to high bacterial levels and low dissolved oxygen levels, which is harmful to fish and other aquatic life.

What is a Dry Weather Overflow (DWO)?

In dry weather, sanitary wastewater normally flows to the Blue Plains Advanced Wastewater Treatment Plant through pipes with regulators. During wet weather, regulators are designed to let the excess flow discharge directly to a river or creek. If regulators become blocked by debris or trash, wastewater can also overflow during dry weather. This is called a dry weather overflow (DWO). DC Water has an intensive maintenance and inspection program to prevent DWOs from occurring. If you see a CSO outfall discharging during dry weather, call DC Water at (202) 612-3400.

Where can you get more information?

You can learn more by visiting DC Water's website at **dcwater.com/cleanrivers**.You may also contact DC Water's Office of External Affairs at (202) 787-2200.

The complete text of the Long Term Control Plan for Combined Sewer Overflows can also be found at the following public libraries: Capitol View, Mount Pleasant, Northeast, Woodridge, Southeast, Shepherd Park, Tenley-Friendship and Washington Highlands.



ССЕДИ ВІУЕРЗ РВОЈЕСТ ИЕWS

CONTROL ACTIVITIES COMBINED SEWER OVERFLOW (CSO)

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY BIANNUAL REPORT OCTOBER 2014







DC Water Greens Fort Reno Reservoir

DC Water has retrofitted several facilities with green infrastructure. Incorporating greenery on previously paved surfaces allows rainwater to seep into the ground instead of entering the sewer or stormwater system. The largest green project is a green roof the Authority installed at its Ft. Reno Reservoir. Pervious pavement was also installed there.

In addition, the Authority retrofitted several other water and sewer facilities. DC Water covered the East Side Pumping Station, a wastewater pumping station near RFK Stadium, with a 6,600 square foot green roof. At the Anacostia Water Pumping Station, green projects capture and treat runoff, including pervious pavers (that allow water to run through) and a rain garden with native plantings.

DC Water also provided funding to DC Greenworks to create the Growing Futures Program, which provided local residents with

continued from page | First Street Tunnel

This construction will be a temporary disruption to the residents; however DC Water has been working with the local community through regular meetings to minimize the construction impacts. A 24/7 hotline, alternative parking areas and a shuttle service have been established to lessen impacts to residents. DC Water is committed to collaborating with the community throughout construction. The project is slated for completion in spring 2016. When the tunnel is complete, it will hold more than eight million gallons of combined stormwater and sewage. A temporary pumping station will carry wastewater to the sewer system once rains subside. Eventually, the First Street Tunnel will connect into the 13.1 mile new tunnel system conveying wastewater to the Blue Plains Advanced Wastewater Treatment Plant. This important public health and environmental project will reduce the impacts of local flood events as well as protect the health of the Anacostia River.





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District of Columbia Water and Sewer Authority 5000 Overlook Avenue, SW | Washington, DC 20032

DCWATER.COM



training in all aspects of green roof maintenance – planting and weeding, irrigation system operation, pest and invasive species control, and plant identification. The program included both classroom and hands-on learning at Ft. Reno.

DC Water continues to move forward on its green infrastructure design challenge, currently identifying which projects to fund construction. For more information on green infrastructure, please visit: *dcwater.com/green* or *dcwater.com/giatdcwater.com*.

General Manager's Message

Dear Customers,

water is life

This is a period of great progress at DC Water, with incredible construction projects underway that will upgrade our water distribution and sewage collection systems, help clean up our rivers, and improve our



treatment process at the Blue Plains Advanced Wastewater Treatment Plant. Some of these projects are mandated by the federal government, and they are expensive, which puts pressure on our budget. That in turn drives up our rates and your water and sewer bills.

Given that, it is critically important that we at DC Water do everything we can to keep our costs down and to find ways to save money through more efficient operations and innovation. For example, one of the projects underway now at Blue Plains will turn waste into energy using a process called thermal hydrolysis. DC Water will be able to create enough electricity to power about a third of the treatment plant, for a savings of about \$10 million a year.

That is just one example of the incredible innovation our engineers have applied on the plant. That's why I recently created an Office of Innovation to expand this effort Authoritywide. If we think outside the box, I'm confident we will find many ways to improve our operations, provide better service to our customers, and lessen needed rate increases in the coming years.

Deorge A. Hawkins

George S. Hawkins gmsuggestions@dcwater.com

DC WATER ACHIEVEMENTS IN 2013

In 2013, DC Water continued global leadership in water sector science and technology. Just a few highlights for the year follow.

Naming Ceremony – DC Water hosted elected officials, environmentalists, the media and guests in a celebration to unveil the tunnel boring machine (TBM) named "Lady Bird" after the famous First Lady devoted to environmental beautification. The TBM was lowered underground, assembled and mined more than 1,000 feet by the end of the year. She is currently under the Potomac River in her journey to help alleviate combined sewer overflows as part of the Clean Rivers Project.

Other construction milestones -

- DC Water completed the years-long work to rehabilitate the Crosstown Tunnel, a large water transmission main.
- The Enhanced Nutrient Removal project on Blue Plains made significant progress towards becoming operational in 2014.
- DC Water made strides in the digester project, erecting 100-foot digesters and thermal hydrolysis vessels. When completed in 2014, the facilities will turn the solids left over after the wastewater treatment process into combined heat and power. About onethird of the plant's electricity needs will be provided by the digesters.
- DC Water conducted public out-

reach and engineering planning for projects to help mitigate flooding in Bloomingdale and LeDroit Park.

NEWS FOR DC WATER CUSTOMERS | VOL. 15 ISSUE |

Award-winning work – The Authority and its staff won numerous awards in 2013, including:

- Certificate of Achievement for Excellence in Financial Reporting for the Comprehensive Annual Financial Report (CAFR) – Government Finance Officers Association
- Distinguished Budget Award Government Finance Officers Association
- 2013 Research Grand Prize (for Mainstream Deammonification project) – American Academy of Environmental Engineers and Scientists
- Gold Award (for 100 percent NPDES permit compliance) – National Association of Clean Water Agencies

Employees lend a hand – DC Water's first full year of employee donations through payroll deduction netted more than \$19,085, pushing the total donations for FY 2013 to \$115,455. DC Water was able to assist 359 families to keep their critical water service on.

DC Water employees also collected more than 350 winter coats, donating them to local shelters

DC Water participated in Bread for the Soul by donating toys, books and money for food baskets to District families affected by HIV and AIDS. Employees have generously provided for more than 1000 families over the last 12 years.

Start the year off with tap water!



Photo courtesy of United States Environmental Protection Agency

Millions of people around the world lack access to safe drinking water. In the U.S., we have the luxury of enjoying clean water when we turn on the faucet. DC Water delivers high-quality drinking water to the District every day, and we encourage customers to choose tap in the New Year.

Four reasons to drink tap water in 2014:

Tap water is safe. DC Water conducts hundreds of tests each week to monitor water quality throughout the distribution system. The District's tap water meets national drinking water standards and frequently surpasses minimum quality requirements established by law.

Tap water is affordable. At a penny per gallon, tap water is much less expensive than bottled water or manufactured beverages.

Tap water tastes good. Results of our 2013 District-wide taste tests show that over 60 percent of residents prefer the taste of tap

water or could not tell the difference between tap and bottled water.

Tap water is the most sustainable choice. Bottled water production requires massive amounts of water, energy and resources. Only 25 percent of plastic bottles are recycled,

and the rest end up in landfills or waterways.

Ensuring water quality.

Drinking water quality is a responsibility that DC Water shares with its customers. Pipe materials and plumbing fixtures can reduce quality as water travels to the tap. Follow these tips to ensure excellent drinking water quality in your home:

- Flush cold water for two minutes before using water for drinking and cooking if water hasn't been used for several hours.
- 2. Do not use hot tap water for drinking and cooking.
- 3. Routinely clean faucet strainers and replace them every one to two years (available in hardware stores).
- If you use a water filter, follow the manufacturer's instructions for replacement to prevent build up of bacteria and metals.

Winter and Water Main Breaks

With changes in temperature, water mains are more susceptible to breaking due to expansion and contraction of the pipe material, weakening the mains. Pipe corrosion, soil conditions, age and ground movement can also cause a water main to break, creating unexpected problems for customers and motorists. DC Water averages about 400

water main breaks per year and most occur in the winter months. For this reason, the Authority schedules more stand-by crews in the winter. and in recent years has crosstrained

sewer

widespread service disruptions they become critical repairs. In general, it takes six to eight hours to repair a water main if it is straight-forward and all the necessary parts are on hand.

A DC Water video explains the steps involved in repairing a water main break. It can be viewed at: *bit.ly/mainbreaks*. Anyone observing water



running from streets or sidewalks is encouraged to report the leak for a crew to inspect. To do this, call DC Water's 24-hour Command Center at (202) 612-3400 or report it on the website

repair workers to also make water main repairs.

Repairs are prioritized based on several factors such as severity of the break, impact to customers and the environment, potential damage to public and private property, and unsafe traffic conditions. When emergency water main breaks cause *dcwater.com*,or tweet (*@dcwater* with a picture and location. Please provide specific information about the location and appearance of the break. For listings of current repairs, please visit the *dcwater.com* home page and click on the location under "In Your Neighborhood."



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY George S. Hawkins, General Manager

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NEWS FOR DC WATER CUSTOMERS | VOL. 15 ISSUE 2

General Manager's Message



Dear Customers, The new year brought with it a polar vortex that dropped area temperatures to record lows. Water utilities nationwide braced

for a surge in water main breaks. DC Water prepared for the worst, but was fortunate to sustain only the average number of water main breaks. Still, our water and sewer crews were out in the -11 wind chill, hard at work to restore critical water and sewer services.

Also, our call center and emergency command center were flooded with thousands of calls from residents with household plumbing issues, mostly frozen or broken pipes.

Before the next cold snap, please take a minute to find the emergency shut off valve in your home. A pipe can burst at any time and your quick action to shut off the water can save you from costly property damage. Also, please visit our website for information on how to thaw frozen pipes, or better yet—how to prevent freezing pipes in the first place: *dcwater.com/frozenpipes*.

Deorge A. Hawkins

George S. Hawkins gmsuggestions@dcwater.com

DC Water Announces Green Design Challenge Winners, Unveils Innovative Projects

On January 9, DC Water announced the winning design entries in the 2013 Green Infrastructure Challenge, a competition that started last spring and encouraged submissions of landscape, streetscape and building designs. The ceremony took place at the Ronald Reagan Building and International Trade Center, and was attended by Mayor Vincent C. Gray. Prize money was awarded for this first phase (design) and will also be awarded for construction of some projects. DC Water will award more than \$1 million total for the two phases.

Green infrastructure is a natural way to manage stormwater by absorbing rain before it makes its way to the sewer or stormwater system. Examples include green roofs, rain barrels and pervious pavement (pavement that lets water run through it). Keeping stormwater out of the sewer system can go a long way to improving the health of local waterways, since it contributes to combined sewer overflows (CSOs) in heavy rain storms.

DC Water General Manager George S. Hawkins, said, "DC Water is educating the community about green infrastructure and incentivizing creative and innovative approaches. We look forward to final projects that will green the District and create a body of research that will benefit other cities."

The winning teams and projects include:

- ARCADIS, Utilizing Lost Urban Space
- Tetra Tech, Lamont Park: Integrating Green Infrastructure and Bike Infrastructure
 CH2M HILL, Greening the District's

Geometry: Enhancing L'Enfant's Plan

- Urban Rain Design | Nitsch Engineering | Stacy Levy Artist | Raymond Papa, Kennedy Greened: A Neighborhood Green Street Project
- AECOM, 21st Century Stormwater Management in a 19th Century Neighborhood
- McKissack, Symbiotic Streetscapes
- Bradley Site Design Greening Urban, A Stormwater Park System

To view the winning designs, please visit *dcwater.com/greenchallenge*. For more information on the Clean Rivers Project, please visit *dcwater.com/cleanrivers*.





Water Main Breaks — Which One Comes First?



Photo courtesy of United States Environmental Protection Agency

Oftentimes in the colder months, DC Water crews will be faced with the task of repairing multiple water main breaks at once. In a cold January in recent years, for instance, there were more than 30 breaks at one time. Even with extra crews and contractors on stand-by, all of these can't be addressed simultaneously. DC Water's investigators prioritize repairs based on the severity of the break, starting with those breaks that cause the highest number of customers to be without water. Other factors that make a repair high priority are those that affect traffic or cause street flooding, those that are causing property damage and those that could cause damage to the environment.

If you see a leak and suspect a water main break, please report it to DC Water by calling (202) 612-3400, reporting it online at *dcwater.com/report_problem/* or tweeting @*dcwater* with a picture.

TEST YOUR WATER KNOWLEDGE

I.One gallon of water weighs _____ pounds.

- 2. More than 90 percent of the world's fresh water supply is located in ______.
- 3. The household appliances that consume the most water are your _____.
- 4. _____ rank second in household water use.
- 5. You can reduce the amount of water you use in the home by putting ______ on your faucets and ______ showerheads in your showers.
- 6. The water cycle shows that water that evaporates into the atmosphere returns to Earth as _____.

ANS/VERS ANS/VERS 5. Low-flow serators, low-flow 6. rain 5. Low-flow serators, low-flow 6. rain

Spring Cleaning Scheduled for District Water Pipes

From Monday March 17, 2014 and ending Monday April 28, 2014, the disinfectant used for drinking water treatment will temporarily switch from chloramine (chlorine + ammonia) to chlorine. During this time, you may notice a slight change in the taste and smell of your

drinking water. This standard switch in disinfection is part of an annual program to clean water pipes and maintain water quality throughout the year.

If you notice an increased chlorine odor:

- Flush cold water tap for two minutes.
- Refrigerate a pitcher of cold tap water to allow the chlorine odor to disappear.
- Use a pitcher-style or faucet mount filter to remove chlorine taste and odor.

Individuals and business owners who take special precautions to remove chloramine from tap water, such as dialysis centers, medical facilities and aquatic pet owners, should continue to take the same precautions during the temporary switch to chlorine. Most meth-



ods for removing chloramine from tap water are effective in removing chlorine.

The Washington Aqueduct is responsible for treating drinking water in the

District. DC Water works closely with the Aqueduct to monitor drinking water throughout the city to ensure chlorine levels meet safe target levels. To view monthly chlorine levels, visit *dcwater.com/testresults*. For more info, contact the Drinking Water Division at (202) 612-3440.

Intern at DC Water this Summer!

DC Water is now accepting applications from college students for positions as summer interns. Internships are available in a variety of departments including IT, Legal, External Affairs, Water Services and Engineering. These are full-time paid positions and interns also receive training in professional development and attend field trips to learn about the water and wastewater industry. Applications are due at the end of March.





DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY George S. Hawkins, General Manager

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NEWS FOR DC WATER CUSTOMERS | VOL. 15 ISSUE 3

General Manager's Message



Dear Customers,

It is hard to believe it has almost been a full year, but soon it will be time once again for our annual Budget Town Hall Meetings! Each spring, we cohost these meetings in all eight wards of the District with the ward councilmembers, and the response from you, the ratepayers, has been fantastic.

Last year several hundred people attended the meetings and I hope this year we will draw even larger crowds. It is a great opportunity to speak directly with me and DC Water staff and to learn more about our budget and proposed rates for the next fiscal year.

This year's meetings will be held in April. Please check our website at dcwater.com in the coming weeks to learn when we will be coming to your ward. I look forward to seeing you there!

George S. Hawkins gmsuggestions@dcwater.com

George A. Hawkins

April is Earth Month

Anacostia Watershed Society Annual Earth Day Cleanup and Celebration

Saturday, April 5 Cleanup: 9 a.m.-Noon Celebration: Noon-2 p.m.

Location:

Cleanup: Various sites throughout the Watershed Celebration: **RFK Stadium** Visit anacostiaws.org for more information.

Alice Ferguson Foundation's Potomac River Watershed Cleanup

Saturday, April 5 *Cleanup*: 9 a.m.-Noon Contact the Cleanup Coordinator at (202) 973-8203 or visit fergusonfoundation.org

Joint Base Anacostia-**Bolling's 2014 Earth** Day, Fun Day Waterfront Cleanup Event

Saturday, April 5 Cleanup: 9 a.m.-1 p.m. Contact the Cleanup Coordinator at (202) 767-4846



How does DC Water respond to contamination?

The recent contamination of drinking water in West Virginia is a reminder of how critical it is to protect our water supply, the Potomac River. The chemical spill did not affect the Washington area. and the District's water remains safe to drink. DC Water and regional water utilities work with the Metropolitan Washington

Council of Governments, the Interstate Commission on the Potomac River Basin and government regulators to ensure the safety of our drinking water.

In the event of contamination, the region implements an emergency response plan and warning



the movement of contaminants. The Washington Aqueduct can increase water storage before contaminants reach the treatment plant and water intakes can be shut off until the water is safe to use.

DC Water participates in regular training exercises to test the region's ability to coordinate

emergency

notification

response efforts. The

public

process

includes

advisories

to protect

that are issued

public health

customers of

water quality

committed to

working with

DC Water is

issues.

and inform



all of the River's users to prevent contamination of our drinking water supplies, and we are continuously working to update and improve our regional response system. For information about what to do during a water service emergency, visit dcwater.com/education/water emergencies.cfm.

The Washington Aqueduct

Fix a leak and save some green



Did you know that ten percent of homes have leaks that waste 90 gallons or more per day? That adds up on the water bill. Common types of leaks include worn toilet flappers, dripping faucets and leaking valves.

Nationwide, more than one trillion gallons of water will leak from homes each year. To help curb this enormous loss, residents are urged to check their plumbing fixtures and irrigation systems during Fix a Leak Week March 17 to 23.

A leaking toilet wastes a gallon per minute, or 1,440 gallons per day, costing more than \$400 on a monthly water bill. (To learn more, watch this video: *bit.ly/toiletvideo*.)

Residents can also conserve water by installing EPA's WaterSense[®] labeled fixtures and other low flow devices. For more information, please visit: *epa.gov/watersense/pubs/fixleak.html*

Dial before you dig!

It's been a cold winter and you may want to get a jump on your spring plantings. Be sure to call



Miss Utility at 811 or visit *missutility.net* at least 48 hours before you dig in your yard to have your utilities marked. Miss Utility is a one-call notification system for Maryland and District homeowners and can help prevent damaged utility lines or pipes, a disruption of services or personal injury.

SPOTLIGHT ON THE ALICE FERGUSON FOUNDATION

The Alice Ferguson Foundation has a 60 year history of connecting people to the natural world, teaching sustainable agricultural practices and the cultural heritage of the local watershed through education, stewardship and advocacy. It is a Maryland-based organization that contributes to the health of the Potomac River and engages youth and adults in education programs and outreach activities, as well as field studies to help them better appreciate and understand the environment.

One such initiative mirrors DC Water's mission as an environmental steward. While DC Water cleanses the wastewater for an entire region, putting back into the Potomac water that is cleaner than the river itself, The Alice Ferguson Foundation cleans the Potomac through its Trash Free Potomac Watershed Initiative, which seeks to create a lasting reduction of litter and waste in the Potomac watershed by:

- Challenging regional leaders to work collaboratively
- Bringing together key stakeholders to research and explore alternative, cost-effective solutions that have long term impact
- Improving general education and awareness in order to shift individual behaviors

The Trash Initiative addresses the trash problem comprehensively by:

1. Educating the public with the Regional Litter Prevention Campaign



to inspire citizens and businesses to change littering behavior and take action towards a trash free watershed.

- 2. Working with regional law enforcement agencies, AFF hosts Litter Enforcement Month every April to raise awareness of littering, illegal dumping and related crimes.
- 3. Improving economic incentives for residents for waste reduction, recycling, and composting to boost responsible waste management and prevent litter.
- 4. Supporting source reduction policies, effective implementation of current policies, and sufficient funding for and effective implementation of, waste management programs at the local, state, and federal levels.
- 5. Ensuring regulation of trash in waterways under the provisions of the Clean Water Act by creating a measurable, tangible limit to the amount of trash allowed in a body of water through stormwater permits and TMDLs (Total Maximum Daily Load requirements).

To learn more about the Alice Ferguson Foundation, please visit *ferguson-foundation.org* or call (202) 973-8206.



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY George S. Hawkins, General Manager

Customer Service Department 810 First Street, NE Washington, DC 20002 | **DCWATER.COM**











NEWS FOR DC WATER CUSTOMERS | VOL. 15 ISSUE 4

General Manager's Message:



The last thing a water utility wants to do is issue a boil water alert, but we won't hesitate to do it to protect the health and safety of

our customers.

That's what happened in early March when internal power circuitry failed at the Fort Reno pump station. With the pumps down, pressure in the pipes dropped, raising a concern that outside contaminants could get in the drinking water.

Out of an abundance of caution we immediately issued a boil water alert for the impacted area, which included more than 1,000 properties. Staff and volunteers went door to door to notify customers while, behind the scenes, maintenance crews quickly fixed the electrical problem and restored service. The alert was lifted once water quality tests were completed.

The incident shed light on the dire need to invest in our aging infrastructure, but the response by our employees buoyed me because it showed great teamwork and coordination, and a genuine concern for the well-being of our customers.

Deorge A. Hawkins

George Hawkins gmsuggestions@dcwater.com

New Visitor Center opens at Blue Plains



DC Water recently opened an environmentally friendly Visitor Center and warehouse building at the Blue Plains Advanced Wastewater Treatment Plant. The 30,000 square foot building is the first stop for more than 1,000 visitors who tour the plant each year. It houses an educational classroom, security, the Office of External Affairs' outreach team and a new warehouse. The modern design incorporates recycled materials, plant life and a large wall display that explains water and wastewater processes.

"DC Water built this new building to LEED Silver certification standards," said General Manager Hawkins. "It serves as a model for stormwater runoff reduction and energy efficiency."

For runoff reduction, the green roof will drain into vegetative swales along the back of the building, where it will be treated by plant life selected for this purpose. Pervious pavement reduces the runoff and resurfaced parking lot incorporates new landscaping islands and planting strips to reduce the heat island effect.

For energy efficiency, multiple skylights use natural daylight to supplement high efficiency LED lighting fixtures, while a solar array roof above the guardhouse aims to save on electricity. Low-flow plumbing fixtures also conserve water.

Additional green features:

• Building materials with high recycled and recyclable content were used, including concrete, masonry, gypsum board, tile, and carpet.

• All wood products are made from FSC Certified lumber.

• Construction waste management: 88% of waste diverted from landfills.

- Indoor air quality management.
- Sustainable furniture.

• Bicycle storage and changing rooms to accommodate bicycle commuters.

More information about the new facility can be found at: dcwater.com/visitorcenter

To schedule a tour of the Blue Plains facility, please visit: dcwater.com/about/tours.cfm

Hydrants are for fighting fires

Fire hydrants are specifically made for use by firefighters and are an important part of the District's fire protection.

There are more than 9,300 hydrants in DC.

When the summer heats up, people looking to cool off may be tempted to open a hydrant, but this can be dangerous.

For one, the water comes out with great force—it can knock a person over or cause injury, especially to children.

Opening a hydrant releases more than 1,800 gallons of water per minute, lowering water pressure in the area, causing nearby customers to have low water pressure in their homes and businesses. It also hinders

firefighting. The hydrant can be damaged when opened without the proper tools. Finally, all that water on the streets can wreak havoc with

> traffic and put the people in harm's way.

There are plenty of ways to stay cool. Try visiting an air conditioned library, theater, museum or mall or request

DC Water's

services for your large gathering at:

dcwater.com/mistingtent.

In severe heat and humidity (when the heat index is over 95) visit one of DC's Cooling Centers.

Please make this summer a safe one!

Spotlight on: DC Appleseed

Founded in 1994 by a group of public-spirited lawyers, DC Appleseed is a nonprofit organization dedicated to solving problems that affect the daily lives of those who live and work in the National Capital area. For the past 15 years, DC Appleseed has worked with volunteer attorneys, business leaders, and community experts to recommend effective policies for restoring the Anacostia River. The Anacostia is a slow-moving, shallow and impaired river and DC Appleseed aims to help clean it up and transform the Anacostia into a recreational centerpiece of the nation's capital.

During this time, DC Appleseed has successfully advocated for numerous public initiatives to improve the river including:

• Environmental building standards to keep pollution out of the Anacostia as development occurs along its banks.

• A discount program for DC Water ratepayers who use green practices to reduce stormwater runoff.

• A plan to clean up contaminated sediment on the river's bottom.

• DC Appleseed believes that the Anacostia River's clean-up can spur neighborhood investment and create jobs—serving as a national model for revitalizing urban rivers.

DC Appleseed is celebrating its 20th anniversary this year. To learn more about DC Appleseed please call 202-289-8007 or visit www.dcappleseed.org

DC Water Celebrates National Drinking Water Week May 4 to 9, 2014



For more than 30 years, public water systems around the country have celebrated National Drinking Water Week to highlight the value of safe and reliable tap water. When you fill a glass with drinking water in the District, it has travelled through part of a 1,300-mile pipe system after leaving one of eight reservoirs, where it was stored after the Washington Aqueduct collected and treated the water from the Potomac River. The water is tested at numerous points in the distribution system by an experienced team of water quality technicians. Thirty six thousand valves, more than 9,300 fire hydrants and hundreds of DC Water employees work every day to maintain our drinking water system. Please join us in recognizing the importance of drinking water in the National Capital Region and raise a glass of tap water to celebrate National Drinking Water Week.



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY George S. Hawkins, General Manager

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water is life

NEWS FOR DC WATER CUSTOMERS | VOL. 15 ISSUE 5

General Manager's Message



Dear Customers, They say "Necessity is the mother of invention," and at DC Water we can attest to that. You may remember we had four severe flooding events

in 2012 in the Bloomingdale and LeDroit Park neighborhoods. Intense rainstorms overloaded the sewer system.

An obvious solution to install a much larger sewer would require probably a decade of digging up a major road artery and would cost billions of dollars.

This is where innovation came to the rescue. Our team investigated more than 40 different engineering solutions and crafted a creative plan to address the flooding with incredible speed. We've just converted a century old sand filter at the old McMillan water treatment site to hold stormwater. We tested it during the heavy rains in late April and it worked! Soon, we will break ground on a huge tunnel that will act as an underground cistern.

These solutions by themselves do not solve the problem - we could still have flooding in a severe storm - but the progress is apparent and we are well on our way to offering lasting long-term relief.

Deorge A. Hawkins George S. Hawkins

Georg¢S. Hawkins gmsuggestions@dcwater.com

Hurricane—and severe weather—preparedness



As we have seen in recent years, hurricanes pack powerful forces and can cause damage and injury and wreak havoc with utilities. Hurricane season runs from June 1 to November 30, with the peak season occurring between August and October.

District area residents and business owners are urged to protect themselves, their loved ones and their property. DC Water offers precautions to take when the weather service reports impending severe weather or hurricane.

Please do the following before severe weather arrives:

- Visit ready.gov/hurricanes.
- Keep a first-aid kit handy, including flashlights and extra batteries.
- Clear loose and clogged rain gutters and downspouts.

- Keep a battery-powered radio nearby.
- Maintain an emergency supply of food and bottled water for your family and pets.
- Visit dcwater.com/education/ water_emergencies.cfm and print out how to prepare for and respond to water emergencies.
- If damage is extensive, listen to the media for information about water and sewer infrastructure and the safety of your drinking water.
- Call DC Water's 24-hour Command Center for all water and sewer emergencies at 202-612-3400.

DC Water Flushes Hydrants to Improve Drinking Water Quality

In March, DC Water began its annual hydrant flushing program to enhance water quality in the District's drinking water system. This program helps to minimize the problem of discolored water that occasionally occurs due to aging iron pipes that make up the majority of our distribution system. Although iron in drinking water is not a health risk, the buildup of iron pipe material sometimes causes discolored tap water. The flushing of hydrants may cause temporary water discoloration as the iron is washed out of the system.

We recommend that customers run cold water taps for several minutes until the water clears. If the discoloration persists, please contact the Drinking Water Division at 202-612-3440. The program runs from March to November, so you may see DC Water employees opening fire hydrants throughout the city.



Stay Cool with DC Water

DC Water participates in numerous outreach opportunities each year to connect with customers, distribute information about our services and offer amenities that add value. Our **Misting Tent** is always a crowd-pleaser this 10' x 10' tent provides a refreshing mist and shade from the sun. **DC Water Mascots**, Wendy and Wendell the Waterdrops, are always popular with the little ones and bring energy to any event.

We can also provide **Mobile Brita Hydration Stations** that dispense filtered tap water to easily fill cups and water bottles. DC Water **Cooling Stations** quench a crowd's thirst with iced tap water from large portable water coolers and our **Mobile Water Conservation Unit** demonstrates household conservation

techniques that help customers save money on their water bill. If you are interested in any of these options for your large community event, please submit a request (April through September) online at dcwater.com/ mistingtent or call 202-787-2200 for more information.



Earth Conservation Corps- Changing lives while inspiring change along the Anacostia

In 1992, a small group of unemployed youth from a public housing community in Southeast Washington, DC, volunteered to change their lives by restoring the Anacostia River. Motivated by the belief that their strong hearts, minds, and muscles could reclaim the river, they banded together under the name Earth Conservation Corps.

Today, the Earth Conservation Corps uses hands-on, outdoor activities to teach Corps members the knowledge and skills necessary to become leaders and ambassadors of the environment. They learn about the impact pollution has on people, wildlife and the environment. Corps members lead volunteers during community service projects that clean and restore the Anacostia River and its watershed. Schools can also schedule environmental education activities at one of the education centers or at their school.

Each year, at least 15 out-of-school young adults from the ages of 17 to 24 participate in workforce training that may lead to professional certifications or job placement. Training programs focus on public lands and green industry jobs such as low impact development, environmental education, media arts, lead cleaning, pre-apprenticeships, and/or advanced level training.

For more information, please visit: earthconservationcorps.org or call 202-479-4505.

<image>

Members of Earth Conservation Corps working to improve the health of the Anacostia River.



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY George S. Hawkins, General Manager

Customer Service Department 810 First Street, NE Washington, DC 20002 | **DCWATER.COM**





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water is life

NEWS FOR DC WATER CUSTOMERS | VOL. 15 ISSUE 6

General Manager's Message



Dear Customers, Every year, DC Water produces a report on your drinking water quality, which summarizes the water testing results from the previous year. The full-length edition

of the 2014 Drinking Water Quality Report is available online at dcwater.com/ waterreport or as a hard copy by request at 202-787-2200. A summary of the report will be mailed to every home in the District, even those who do not pay a DC Water bill. It should be in your mail soon, and we hope you will take this opportunity to learn about your drinking water.

For DC Water and for me personally, protecting the quality of the drinking water supply is our most fundamental job. We will take all necessary steps to protect public health, including an intensive monitoring program. If there is even the potential for a water quality issue, we will take precautionary steps to ensure our customers' safety. These commitmentssupported by a dedicated, experienced and energetic staff that is on duty 24 hours a day, 7 days a week, 365 days a year – is the heart of DC Water.

I urge you to get to know us better, the work we do on your behalf, and the remarkable facilities, men and women who serve you. A great starting place is dcwater.com, or our Facebook, You Tube or Twitter feeds.

Deorge A. Hawkins

George S. Hawkins gmsuggestions@dcwater.com

The proof is in the water - DC tap water tastes great



DC Water celebrated National Drinking Water Week with a series of taste tests in early May. We started the week off with a public taste test at the Dupont Circle Fresh Farm Market. Nearly 200 participants challenged their taste buds to see if they could tell the difference between DC tap water and bottled water.

Sixty-six percent of the participants preferred the taste of tap water or could

not tell the difference between the two. We hosted similar events at DC Water offices and challenged employees to participate in the blind taste test. With over 300 contestants, 73 percent of participating employees preferred the taste of tap water or could not distinguish between the two.

Finally, we put the professionals to the test and entered a sample of DC tap water in a regional taste test hosted by the Chesapeake Section of the American Water Works Association. DC Water won the grand prize among neighboring water utilities, reinforcing the claim that tap water is the most economical, sustainable and delicious water choice in the District. Still need convincing? Participate in any of our Water Wednesday taste tests this summer, hosted in a different ward each week in July and August.

Make sure that's really DC Water at your door



DC Water vehicles sport the logo.

On occasion, DC Water employees may need to access your property or home to investigate and resolve a water or sewer-related problem. To protect our customers, DC Water crews are all required to carry and display photo identification that includes their name, photograph and employee number. Additionally, most employees wear uniforms with the DC Water logo and drive vehicles with the DC Water logo displayed on it.

Customers are encouraged to verify the identification of any one responding to a service call. Do not allow entry to anyone who cannot provide proper identification. If you have any doubt about the person at your door please call

DC Water offers three

1. Online. You can pay your

up for e-Bill Notification to get an

email instead of a printed bill.

Drain your hot water heater annually

Ensuring quality tap water is a shared responsibility of DC Water and homeowners. Draining your household water heater is an important step for maintaining high water quality. Over time, sediment, bacteria and metals can build up in your water heater tank, impacting water quality and minimizing household water pressure.



Homeowners are recommended to drain a water heater annually or more frequently if discoloration

Gas hot water heater

or low water pressure are experienced from hot water taps. For instructions, please see dcwater.com/waterheater



Please update your information

DC Water customers are urged to update their contact information so that they may be notified in case of an emergency in their neighborhood concerning their drinking water, sewer lines or construction. Please call Customer Service at 202-354-3600 or go to dcwater.com and make changes to your MyDCWater account. You can also sign up for text alerts on the website.

Paying your DC Water bill is easy



Use your phone, computer, or your feet to pay your bill.

2. Via the phone. The same options, credit card or Automatic Bill Payment, can be processed using the voice recognition system at 202-354-3600 at any time, day or night.

3. DC Water Payment Center. You may also pay in person at our payment center at 810 First Street, NE.

For more information, please call DC Water's Customer Service Department at 202-354-3600.

DC Water continued

the police immediately and then notify DC Water. This time of year has historically produced impersonators of utility companies who gain access to homes to commit theft. Please be alert and report all suspicious individuals. You may call our 24-hour emergency line at 202-612-3400.



DC Water field employees usually wear a uniform.



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY George S. Hawkins, General Manager

Customer Service Department 810 First Street, NE Washington, DC 20002 | DCWATER.COM









30941-1-0043

General Manager's Message



Dear Customers, In this issue of *What's on Tap*? you will read about the groundbreaking for the critically important First Street Tunnel Project to help protect the vulnerable

neighborhoods of Bloomingdale and LeDroit Park from flooding during severe rainstorms. The project is a welcome sign of progress for residents who endured basement and street flooding four times in the summer of 2012 because the existing sewer system is undersized.

But putting a 20-foot-diameter tunnel under a residential neighborhood is extremely challenging and as a result we are taking extraordinary steps to minimize the impact on residents. The contractor will use an innovative technique called ground freezing to limit the traffic, noise and dust from the project. In addition, we have set up a 24-hour hotline, alternate parking areas and a free shuttle service for residents. We are also conducting pre- and post-construction surveys on nearby homes and will monitor noise and vibrations throughout the construction.

Our goal is to complete the project as quickly as possible – with as little disruption as possible – and leave a tunnel in place that will serve these communities for more than a century, at least.

Deorge A. Hawkins

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DC Water, Mayor break ground on First Street Tunnel Celebrate Flooding Mitigation Measures

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Mayor Gray and those instrumental in the First Street Tunnel celebrate the construction start.

On June 27, DC Mayor Vincent C. Gray, City Administrator and Chairman of the DC Water Board of Directors Allen Y. Lew, and DC Water General Manager George S. Hawkins broke ground on the First Street Tunnel—an underground cistern to store stormwater during intense rainstorms to help mitigate flooding in Bloomingdale and LeDroit Park. The group also celebrated measures already in operation that are providing some flooding relief.

The neighborhoods are connected to an undersized sewer system and have been subject to flooding during heavy rains for more than a century. DC Water's longterm solution, the Clean Rivers Project, will add capacity to the sewers and was scheduled for completion in 2025.

To speed up the relief efforts, Mayor Gray established the Task Force on the Prevention of Flooding in Bloomingdale and LeDroit Park. He named Mr. Lew and General Manager Hawkins co-chairs. The task force made 25 recommendations. The following are a few of those measures.

The First Street Tunnel, a 20-foot diameter tunnel under First Street, NW, will hold eight million gallons of combined sewage and stormwater runoff during heavy rains and a temporary

see **BLOOMINGDALE** continued on back

Taplt Metro DC – There's an app for that!

A new mobile phone app offers residents and visitors an easy way to locate businesses that provide free tap water to anyone with a reusable bottle. The free "TapIt Metro DC" app is available on the iTunes App Store and the Google Play Store. The TapIt Metro DC program is a joint effort among DC Water, the Council of Governments and regional water utilities. The app makes it easier to fill up on the go and supports regional efforts to promote the value of water.



Enhanced Nutrient Removal

In 2012, DC Water began construction on the Enhanced Nutrient Removal facilities (ENRf) at Blue Plains to help DC Water remove even more nitrogen from the cleansed wastewater that it puts back into the Potomac River. The facilities will be operational in January 2015, with construction complete in 2014.



DC Water added new tanks for denitrification, expanded nitrification tanks and

built a new wastewater pumping station. Soon, the facilities will help the operators at Blue Plains lower nitrogen in the effluent to 4.7 million pounds per year, a decrease that should improve the health of the Potomac River and Chesapeake Bay. As part of the project, massive pumps were installed. These pumps are the largest in the nation of this type being used in the industry and will lift the wastewater to reverse the flow on the plant for a segment of its journey. These pumps were tested late last month and passed with flying colors.

The total project cost is more than \$950 million for nitrogen removal, a project mandated by US EPA. It is one of three large-scale environmental projects currently underway on Blue Plains.

Bloomingdale continued

pumping station will carry it to the Northeast Boundary sewer. Completion is projected for spring 2016.

DC Water converted a portion of the former **McMillan Sand Filtration Plant** into storage for up to three million gallons of stormwater. During heavy rains, the stormwater is diverted there before it can reach the sewer to reduce the pressure that causes sewer backups and overland flooding. Construction was completed earlier this year.

More than a dozen **bioretention areas** along the Irving Street corridor are nearly complete. This green infrastructure will capture, infiltrate and treat stormwater runoff before it enters the sewer system, and provide other environmental and social benefits.

Last year, with funding from DC Water, the District Department of Transportation (DDOT) installed **a 60-inch stormwater pipe** in the 100 block of Rhode Island Avenue, NW. DDOT also enlarged catch basins, created a rain garden, and installed permeable pavement in an alley.

Ultimately, DC Water's **Clean Rivers Project** will increase the capacity of the sewer system, reducing the frequency, severity and duration of sewer flooding and basement backups when the Northeast Boundary Tunnel is complete, now scheduled for 2022. The tunnels will deliver flow to Blue Plains for treatment prior to discharge to the Potomac River.

The Mayor's Task Force on the Prevention of Flooding Final Report is available at: www.oca.dc.gov.

Spotlight on Groundwork Anacostia River DC, Inc.

Groundwork Anacostia River DC was formed through a formal process begun in 2007 when a group of neighbors organized their efforts to become a sub-watershed group for the



Anacostia River Watershed and committed to improving their communities east of the Anacostia River.

The group has a mission to:

• Increase the capacity of residents and stakeholders to improve, care for, and promote their local environment;

• reclaim vacant and derelict lands for conservation, recreation, and economic development; and,

• reconnect residents to their neighborhoods' environmental assets, including parks, open spaces, and the Anacostia River and its tributaries.

They became a Groundwork Trust, a part of the Groundwork USA Network, and today they sponsor numerous programs, including:

Urban Archaeology Corps – In partnership with the National Park Service (NPS), the Corps gives five students a paid, 10-week summer internship, during which they research Fort Mahan (an NPS site that is a local park as well as the site of one of Washington's Civil War-era defenses) and the surrounding community.

Deanwood Learning Garden—In partnership with Parson's the New School of Design, GWARDC is helping to build seven garden boxes planted with a variety of trees, shrubs and flowers and a bioretention area with footbridge and community garden box for edibles. Groundwork will also work with families to educate them on how to live in a "net-zero" home.

For more information, please visit groundworkdc.org or call 202-650-5651.

Tap It continued

With over 400 locations in the DC metro area and over 200 locations in the District, the TapIt network provides a no-cost alternative to bottled water that reduces waste and saves money. The app makes finding participating businesses as easy as finding an ATM, Metro station or restaurant. App users can tag their refill on Facebook or Twitter, increasing visibility for businesses and allowing consumers to share feedback about the service. For more information, please visit www.freetapwater.org.



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY George S. Hawkins, General Manager

Customer Service Department 810 First Street, NE Washington, DC 20002 | **DCWATER.COM**





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General Manager's Message



water is life

To raise capital for DC Water's Clean Rivers Project, a mandated project to reduce combined sewer overflows, the Authority went to the bond market in early July with a first-

of-its-kind bond offering.

The 100-year final maturity is a first for the water/wastewater sector, and is significant for ratepayers. Since the tunnel system will be constructed to last more than 100 years, and several generations will be using it, it makes sense that it shouldn't all be paid for by the current customers. A 100-year maturity means that the cost will be borne more fairly by the generations who get use from it. It also speaks to the confidence the financial market has in DC Water's strength and long-term viability.

This was the first green bond offering in the U.S. to be certified by a third party for the environmentally beneficial project the sale is funding. These benefits include remediating CSOs, promoting climate resilience through flood mitigation and improving quality of life on the waterfront. This attracted a new investor group of socially responsible investors to DC Water bonds.

DC Water sold \$350 million in bonds at 4.81 percent interest in less than a day.

Deorge A. Hawkins

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DC Water celebrates green infrastructure and green job training program for local residents

On July 23, DC Water General Manager George S. Hawkins, Ward 3 DC Councilmember Mary Cheh, DC Greenworks' Program Director Neil Qusba and other DC leaders celebrated Green Infrastructure

(GI) projects installed at DC Water facilities. The event took place atop DC Water's Ft. Reno Reservoir, where a new one-acre greenroof tops the covered reservoir. The site has also been used for a unique job training program in GI maintenance for local residents. Called *Growing Futures*, the training program prepares its graduates for jobs maintaining green projects.

General Manager Hawkins commented, "Growing Futures is providing a sustainable career path for local residents while also keeping green infrastructure working properly to infiltrate stormwater, an important function in keeping our waterways healthy while providing additional environmental benefits."



Graduates of the Growing Futures program celebrate with Wendy the Waterdrop.

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DC Water provided funding to DC Greenworks to create the *Growing Futures* Program, which provided local residents training including planting and weeding, irrigation system operation, pest and invasive species control and plant identification.

In addition to the Ft. Reno Reservoir greenroof, DC Water retrofitted several water and sewer facilities.

DC Water is also collaborating with neighboring Alice Deal Middle School to provide educational materials for a curriculum in stormwater management.

For more information about *Growing Futures* or the collaboration with Alice Deal Middle School, please visit dcwater.com/giatdcwater.

Free water education programs for local students

DC Water offers a variety of educational opportunities to students attending schools in the District. Our water education program is designed to provide information about the role water plays in our daily lives, our drinking water supply, and ways to protect and conserve our water resources. Environmental lessons are free and suitable for students in kindergarten through high school. Each lesson features hands-on activities and interactive presentations. All lessons can be customized for any grade level, class size or time schedule. To schedule a presentation, please send an email request

Please keep leaves out of catch basins

Catch basins (also known as storm drains) are often overlooked, but they serve an important purpose. They are usually located within a curb and are a vital part of flood control, allowing water to quickly drain from the streets. If these basins get clogged by falling leaves, trash or other debris, flooding may result.

Many catch basins in the District are connected to the storm sewers, which usually drain directly into area waterways. Others connect to combined sewers and, if clogged, may cause sewer backups or overflows in home



may cause sewer backups or overflows in homes or streets.

Help keep catch basins clear by properly collecting and disposing of fallen leaves. You can use them as mulch to reduce weeds, conserve moisture and moderate soil temperatures in your garden or flower beds. Or you can bag them up for recycling. Most years, the DC Department of Public Works (DPW) collects bagged leaves from the curbside treebox space to be composted or otherwise recycled. Please visit dpw.dc.gov or call (202) 645-8245 for more information.

Help a family in need—give to SPLASH

As the year winds to a close, many people think about giving to those in need. At DC Water, we encourage gifts to SPLASH (Serving People by Lending a Supportive Hand) to help families maintain their most critical of all services—water and sewer. SPLASH is an emergency fund to help those struck with an immediate, temporary need and who would otherwise face water service shut off.

The good news is that giving is easy. Customers can use the Round Up feature when they pay their bill by check through the mail to round up to the next nearest dollar, or to add \$1.00 or \$2.00. Or customers can add any amount above their bill. Non-customers can donate by making a check payable to *DC Water SPLASH* program and mailing it to 810 First Street, NE, Washington, DC 20002.

DC Water's Customer Assistance Plan offers qualifying customers a discount on their water bill. Contact the District Department of the Environment (DDOE) at (202) 535-2600 to apply.

DC Water employees also give to the program directly through payroll



deduction. In 2013 alone, employees donated nearly \$20,000 to SPLASH. Please join us in helping District families this holiday season.

Spotlight on Alliance for the Chesapeake Bay

The Alliance for the Chesapeake Bay is committed to the



health of the land, waters, and residents of the Chesapeake Bay. From stormwater in our cities to the forests and farms many miles upstream, how we use the land affects the quality of the Bay and its rivers.

Among its initiatives, the Alliance protects the Chesapeake Bay watershed with trash clean-ups, citizen educational activities and stormwater management practices. The group works with landowners and municipalities to sustain healthy forests, install functional landscapes that contribute to stormwater reduction, and increase public awareness and participation in restoration and pollution prevention.

Within the District of Columbia, the RiverSmart Homes Program offers an innovative approach aimed at reducing stormwater runoff on residential properties. Through grants provided by the District Department of the Environment, the Alliance helps homeowners install rain gardens, BayScape gardens, shade trees or rain barrels, and replace impervious surfaces with pervious ones. Homeowners can receive a \$1,200 grant credit for these projects. The RiverSmart program involves partnerships among citizens, businesses, non-profits, and government to successfully reduce stormwater runoff, improve local water quality, increase awareness about local stormwater



challenges, and encourage community participation in addressing these challenges. To date, over 5,000 homeowners have participated.

Education continued

to externalaffairs@dcwater.com.

In addition, teachers and students are invited to tour Blue Plains Advanced Wastewater Treatment Plant, where DC Water recovers a variety of resources from the region's wastewater. Visitors get an up-close look at the science, technology and innovation behind this massive facility.

All tours are free and available to students grades 6 through college. DC Water can accommodate tour groups of up to 25 people at one time. For tour availability, please visit www.dcwater.com/about/tour_request_form.cfm.



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY George S. Hawkins, General Manager

Customer Service Department 810 First Street, NE Washington, DC 20002 | **DCWATER.COM**







WHAT'S ON water is life

NEWS FOR DC WATER CUSTOMERS | VOL. 15 ISSUE 9

General Manager's message: Toast To Tap



Dear Customers,

This fall marks the 40th Anniversary of a landmark piece of legislation that impacted every one of our lives for the better: the Safe Drinking Water Act. The mere fact that this milestone

will go unnoticed by many is a testament in itself to how far we've come since 1974 when Congress authorized the EPA to regulate drinking water supplies by setting water quality and delivery standards. We now take safe, clean drinking water for granted in this country, which is a remarkable achievement.

Today, the water that flows out of your tap is tested repeatedly by both the Washington Aqueduct, which treats the District's drinking water, and by DC Water which distributes it across the city. The stringent regulations mandated by the Safe Drinking Water Act ensure that tap water is held to a higher standard than most products you use at home - including bottled water.

Tap water also is the right choice for your wallet, costing about a penny per gallon. Bottled water can cost more than 100 times that.

So, why not choose the better product for less money? Tap water is the obvious choice and that's thanks in no small measure to the Safe Drinking Water Act. Cheers!

Deorge A. Hawkins

George S. Hawkins gmsuggestions@dcwater.com

DC Water celebrates safe drinking water



We often take for granted safe drinking water and all its benefits. Products we use every day – a cup of coffee or a delicious pastry - are not possible without safe and reliable water. On October 2, DC Water

joined water utilities from around the metro region and national water organizations to commemorate the 40th Anniversary of the Safe Drinking Water Act. The Act was passed by Congress in 1974 to protect public health by regulating drinking water. The interactive event, "Toast to Tap," featured local food vendors, live music, games and giveaways, including free water poured from the taps of a water bar. Officials from the Environmental Protection Agency led a toast to tap water with reusable water bottles and local tap water. The celebration highlighted the value of safe water for public health and a strong economy in the metro region.

Can the grease!

During the holidays, many people celebrate by cooking large traditional meals. If all that extra cooking leads to more grease being poured down the sink, big problems can result. Fats, oils and greasealso known as FOG—can cause a sewage blockage or a sewer backup, resulting in property damage, environmental problems, and other health hazards.

FOG gets into the sewers from residential and commercial kitchens. It sticks to the inside of storm and sewer pipes on both

private land and in public space. Over time, this builds up and eventually blocks the pipe, causing sewage backups and overflows. Clogged sewers can lead to overflows into the street where the sewage eventually enters the storm drain system. At that point, the overflow may be carried to local waterways, creating health risks for people and marine life.

What should you do instead? Pour grease and oil into a can with a lid. You can store it in your refrigerator and throw it in the garbage when it is filled. Restaurants should



have grease traps installed and regularly cleaned. For additional information, please call DC Water's Sewer Services Department at (202) 264-3820. To report a sewer emergency, please call DC Water's 24-hour Command Center at (202) 612-3400.

fb.com/mydcwater @dcwater

@mydcwater

Weatherproof your home for winter

As cold weather approaches, there are steps you can take to help prevent your



pipes from freezing or breaking.

Pipes that freeze most frequently are those that are exposed to the outside, such as outdoor hose outlets, water sprinkler lines and water pipes in unheated interior areas like kitchen cabinets, attics, garages, basements and crawl spaces.

Before cold weather arrives, you may want to follow these recommendations:

- Remove, drain, and store garden hoses.
- Close the inside valves that control the water supply to outside hose attachments (called hose bibs).
- Open the outside hose bibs to allow any water remaining in the line to drain out. Keep this valve open so that any water still in the pipe can expand without causing the pipe to break.
- You may want to install a pipe sleeve for water pipes that are not insulated. Building supply stores carry these and other supplies for insulating pipes.
- If you go away for an extended time during cold weather, leave the thermostat set above 55 degrees before you leave.
- In severely cold weather, allow cold water to slowly drip from faucets, especially those served by exposed pipes. The cold water is still above freezing and will help prevent the pipe from freezing.

For more information, please visit *dcwater.com/frozenpipes*.

Community Spotlight: Anacostia Community Museum

The Anacostia Community Museum – first known as the Anacostia Neighborhood Museum – opened in 1967 as an outreach effort by the Smithsonian to the local community. Its mission was to bring local exhibitions and public programs centered on African American history, community issues, local history, and the arts.

In recent years, the museum exhibitions demonstrate broader national and international themes reflecting issues of concern to contemporary urban communities. Often, a locally themed exhibit includes a secondary national or global exhibit on the same topic. Last year, the museum housed "Reclaiming the Edge: Urban Waterways" with a look at issues affecting the health, access and vitality of the Anacostia River. In tandem, the museum took a look at similar cities with major waterways running through them—namely Los Angeles, California and Shanghai, China.

The museum continues its dedication to the Anacostia River through research and education. Museum staff launched an intensive Citizen Science Program—an educational program with local schools to introduce middle and

"My Sea, My Sister, My Tears, 2011" by Ntombephi "Induna" Ntobela who says, "We are made of water; we exist because of water. It is the connection between all that lives... and water is the source of all life."



high school students from Wards 7 and 8 to the watershed in their communities. These same students will continue their watershed studies for the next six years, using scientific research, documentation, writing, video and art. "The goal is to engage youth early in science, technology and the environment," says Gail S. Lowe, Ph.D., Historian at the museum. "In addition to the science skills they develop, we also want to instill an awareness of their impact on, and a responsibility to, their watershed."

Currently, the museum is exhibiting the exquisite artwork of the Ubuhle women of South Africa who specialize in the *ndwango* art form, using glass beads to produce spectacular works of art. The exhibit has been extended to January 4, 2015. For more information on the exhibit or the museum, please visit *anacostia.si.edu* or call (202) 633-4820. Admission is free.





DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY George S. Hawkins, General Manager

Customer Service Department | 810 First Street, NE Washington, DC 20002 | **DCWATER.COM**







NEWS FOR DC WATER CUSTOMERS | VOL. 15 ISSUE 10

General Manager's Message: Make a difference



water is life

Dear Customers, I just noticed that donations to our SPLASH customer assistance program far outpaced what we expected this year. We set a target of \$80,000, but due to your generosity, we collected a total of \$115,984 on

behalf of low-income residents. That's great news and a credit to all of you who have made contributions.

SPLASH – short for Serving People by Lending A Supporting Hand – makes the difference for dozens of customers each year who are about to lose their service because they can't afford to pay the bill. Unfortunately, there are always more people who need help than funds available.

Hundreds of DC Water employees donate to this program as well, through a deduction on their paychecks. I hope you will join them if you have not already made a contribution, and if you have, please consider giving a little more. As we head into the holiday season, your gift could make a huge difference for a family in need.

SPH AND

DONAT

Deorge A. Hawkins

George S. Hawkins gmsuggestions@dcwater.com



At this time of year we tend to think about helping those who could use a hand up. Truth is, many people right here in our city have trouble paying their bills each month. In the District, more than a quarter of residents live below the poverty line. But there are programs to help with water and sewer bills. The first is the Customer Assistance Program (CAP) that is administered by the District of Columbia's Department of the Environment (DDOE) Energy Office and provides eligible households with a discount of up to 400 cubic feet of water and up to 400 cubic feet of sewer services per month, a current savings as much as \$37 for water and sewer services. DDOE determines eligibility on the basis of federal low-income guidelines. Applicants must provide proof of income, proof of age and a current utility bill. Please call 311 to find out where to apply for this program.

Years ago, DC Water employees started the SPLASH fund (Serving People by Lending a Supporting Hand)

for those customers in dire need who would be facing a service shut-off without the assistance. SPLASH is funded solely by contributions from customers, employees and the community. In fact, last fiscal year, employees contributed



\$24,933 and the public added another \$91,051. The Greater Washington Urban League manages the fund and DC Water pays all administrative fees so that every dollar raised can be distributed to eligible customers. Those who suddenly have a high water bill can also call DC Water to set up an extended payment plan.

To find out more about DC Water's payment assistance options, please visit *dcwater.com/cap* or call (202) 354-3600 to speak with a Customer Care Associate.

@mydcwater

Did you know...

that not all of the fees on your DC Water bill go to DC Water? Your DC Water bill includes fees collected on behalf of the District government. These fees are the Payment In Lieu of Taxes (PILOT), Right-of-Way (ROW), and Stormwater Fee lines on your bill.

@dcwater

Cold Weather Causes Cloudy Water

When it is cold outside, water may appear cloudy or milky due to air bubbles in the water. Cold water holds more air than warm water, so when the water enters your household plumb-



ing and begins to warm, oxygen escapes and temporarily causes the water to look cloudy. Construction in the pipe system can also create excess oxygen in the water that results in a cloudy appearance. These air bubbles are not a health concern and the cloudiness should naturally disappear in a few minutes. If you experience cloudy water, fill a clear container from your cold water tap and wait for a few minutes. If the water clears from the bottom to the top of the container, air bubbles are rising to the surface. If the cloudiness does not disappear, contact the Drinking Water Division at (202) 612-3440 or *drinkingwater@dcwater.com*.

Winter weather brings water main breaks

As the thermometer plummets, the number of water main breaks rises. Expansion and contraction of pipe material and the difference in temperature in the ground and the water running through the pipe can contribute to water main breaks, creating unexpected problems for customers and motorists. DC Water averages about 400 water main breaks per year and most occur in the winter.

The Authority proactively schedules more stand-by crews in the winter, and crosstrained sewer staff to also make water main repairs. When multiple breaks occur, repairs are prioritized based on severity of the break, impact to customers and the environment, potential damage to public and private property, and traffic conditions. When emergency water main breaks cause widespread service disruptions they



Photo courtesy of USEPA

become critical repairs.

In general, it takes six to eight hours to repair a water main if it is straight forward and all the necessary parts are on hand. A video at *bit.ly/mainbreaks* explains the steps involved in repairing a water main break.

Please report water running from streets or sidewalks. Call DC Water's 24-hour Command Center at (202) 612-3400 or report it on *dcwater.com*, or tweet @*dcwater* with a picture and location. Please be specific about the location and appearance. For listings of current repairs, please visit the home page and click on the location under "In Your Neighborhood."

Community Spotlight: Greater Washington Urban League

The Greater Washington Urban League (GWUL) is a nonprofit social services and civil rights organization with headquarters



in the District of Columbia and offices in the District and Prince George's County, Maryland. GWUL strives to empower communities and to change lives using the approaches of social work, advocacy, law and other disciplines. The GWUL provides direct services and advocacy to more than 65,000 individuals annually. The GWUL manages and administers some 20 programs in the areas of education, employment and training; housing and community development; and health and special services, including DC Water's SPLASH fund to assist District families in urgent need of assistance to prevent termination of water and sewer service.

The GWUL also hosts a satellite job center for contractors working for DC Water under the DC Water Works program in its headquarters building once a week. DC Water Works job listings and other employment opportunities are posted on GWUL's website to promote local hiring.

The GWUL was founded in 1938 and is one of 95 affiliates of the National Urban League. The 40-member Board of Directors that governs the League represents a cross-section of individuals from the metropolitan Washington area. An Advisory Board provides expertise and guidance to support the League's work.

The GWUL is a 501(c)(3) organization and a member agency of the United Way of the National Capital Area. The GWUL seeks creative ways to involve the private sector and community groups in joint ventures. In addition, memberships are available for individuals and corporations. Learn more at: *gwul.org* or call (202) 265-8200.



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY George S. Hawkins, General Manager

Customer Service Department | 810 First Street, NE Washington, DC 20002 | **DCWATER.COM**







APPENDIX 9-3

Informational Bulletin


District of Columbia Water and Sewer Authority Serving the Public • Protecting the Environment



What is a Combined Sewer?

Many older cities in the United States are served by combined sewers. A combined sewer carries both sewage and runoff from storms in a single pipe. Modern practice is to build two pipes in the street - one for storm water runoff, and one for wastewater from homes and businesses. No new combined sewers have been built in the District since the early 1900s. Combined sewers are located mostly in the older developed areas of the District. The figure below shows the CSO area in the District.





What is a Combined Sewer Overflow? During dry weather, sewage from homes and business is conveyed to the District's Wastewater Treatment Plant at Blue Plains. There the wastewater is treated to remove pollutants before being discharged to the Potomac River.

During certain rainfall conditions, the capacity of a combined sewer may be exceeded. When this occurs, the excess flow, which is a mixture of sewage and storm water runoff, is discharged to the Anacostia River, Potomac River, Rock Creek and tributary waters. If these flows were not released to local waterways, there would be widespread street flooding and basement backups. There are a total of 53 CSO outfalls in the system.

Where are the CSO Locations? There are 10 CSO locations on the Potomac River, 15 CSO locations on the Anacostia River, and 28 CSO locations along Rock Creek and its tributaries. WASA has posted a sign at each CSO outfall, similar to what is shown below. The location of each outfall is shown on maps on WASA's web site at <u>www.dcwasa.com</u>.

When do CSOs Occur?

CSOs should only occur during wet weather. Whether an overflow occurs and its magnitude depends on may factors including rainfall volume, intensity and on whether it has rained in previous days. CSOs typically occur more in wet years than dry years.

How Can CSO's Affect the Environment and Human Health?

CSOs can adversely affect the quality of the receiving waters by contributing to low dissolved oxygen and high bacteria levels. Discharges may also be dangerous to the public due to the high flow of water that may exit these sewers (outfalls) and due to potentially harmful substances that may also be present in these discharges. The public is advised to stay away from any sewer pipe discharge.



Example CSO Outfall – CSO 040 to Rock Creek

You Can Help! Don't litter, or use catch basins as trash receptacles or to dispose of leaves. Dispose of hazardous substances properly. These simple measures can reduce the impact of CSOs and make our rivers better.

WARNING COMBINED SEWER OVERFLOW DISCHARGE POINT POLLUTION MAY OCCUR DURING RAINFALL CSO OUTFALL NO. 019

PERMIT NO. DC 0021199

TO REPORT PROBLEMS CALL DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY TELEPHONE NO. (202) 612-3400

Signs like these are posted at CSO Outfalls

What is a Dry Weather Overflow?

The sanitary flow collected in the combined sewer during dry weather is routed to the Blue Plains Wastewater Treatment Plant through facilities During wet weather, the called regulators. regulators are designed to let the excess flow (or CSO) discharge directly to a river or creek. Durina drv weather conditions. sanitarv wastewater in the combined sewer system should not be discharged to receiving waters. However, regulators can become blocked by debris, trash, When this occurs, the or other materials. regulator's functions can be impaired and can result in overflows during dry weather. These are called Dry Weather Overflows (DWOs). WASA has an intensive maintenance and inspection program to prevent DWOs from occurring. When a DWO does occur, WASA corrects it and takes prevent its necessary measures to the reoccurrence. If you see a CSO outfall discharging during dry weather, call DCWASA at (202) 612-3400.

What is WASA Doing About CSOs? WASA has proposed an aggressive plan for reducing CSOs and improving water quality called a Long Term Control Plan (LTCP). The plan calls for constructing storage tunnels to capture CSOs during rain events providing a 98% reduction in CSO to the Anacostia River, and a 96% reduction in CSO overall. The plan is currently being reviewed by EPA. Details on the plan can be found on WASA's web site at www.dcwasa.com.



More Information? Learn more about CSOs by visiting WASA's web site, www.dcwasa.com or by contacting Dr. Mohsin Siddique at (202) 787-2634.

Section 10 Monitoring

10.1 NPDES PERMIT REQUIREMENTS

The requirements in the NPDES permit for this NMC are as follows:

- Operate and maintain the SCADA system that monitors activation of selected CSO outfalls.
- Monitor and record debris removed by the Anacostia River Floatable Debris Removal Program.
- Monitor and record flow, screenings removal and disinfection at the Northeast Boundary (NEB) Swirl Facility.
- Monitor and record demonstration floatables removal at the end of pipe netting system at CSO 018 and the bar rack CSO 040 and 041.
- Monitor and record rainfall at a minimum of four (4) locations in the CSS.
- Report the number, volume and average duration of overflows for each active CSO outfall. The information shall be prepared using the latest model of the CSS, based on the measured storm event data and the operation of the inflatable dams for the previous calendar year.
- Monitor and record the condition of the bar racks at the Main and O Street Pumping Stations storm, CSO pumps to assess their ability to trap floatables.

10.2 SCADA SYSTEM – INFLATABLE DAM MONITORING

In accordance with the Three Party Consent Decree, the inflatable dams were placed in operation by March 29, 2004. The SCADA system monitors the occurrence and approximate duration of overflow at the inflatable dam sites. The SCADA system monitored the occurrence and approximate duration of overflows at these locations after the dams were placed in operation. This information is summarized in DC Water's quarterly operations report for the combined sewer system to EPA. The data is summarized in Appendix 10-1.

10.3 CONDITION OF BAR RACKS AT MAIN AND O STREET PUMPING STATIONS

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations in order to characterize the quantity and nature of the floatable discharged. Condition surveys conducted for the reporting period are presented in Appendix 10-2.

10.4 ANACOSTIA RIVER FLOATING DEBRIS REMOVAL PROGRAM

A description of this program and the quantity of materials removed is summarized in Section 7 of this report.

10.5 NORTHEAST BOUNDARY SWIRL FACILITY

Monthly monitoring data (flow, screenings removal and disinfection) is included in Appendix 10-3.

10.6 BMP DEMONSTRATION FLOATABLES REMOVAL

The BMP floatables demonstration project monitors the quantity of floatable material captured by the netting system at CSO 018 and the bar racks at CSO 040 and CSO 041. Monthly monitoring data is included in Section 7 of this report.

10.7 RAINFALL GAGES

DC Water maintains rainfall gages at four locations within the CSS. This monitoring is performed at the Brentwood Reservoir, the Bryant Street Pumping Station, the Main Pumping Station and the Rock Creek Pumping Station. Data from these gages are recorded daily and is reported in the DSS monthly operations reports. Monthly totals are presented in Table 10-1.

	Monthly Rain Totals in inches				
		· · · · ·			
	Brentwood	Bryant St	Main Pumping	Rock Creek	
Date	Reservoir	Pumping Station	Station	Pumping Station	
Jan	See Note 1	1.87	1.92	2.06	
Feb	See Note 1	2.98	3.00	2.97	
Mar	See Note 1	3.15	3.02	3.49	
Apr	6.51	6.74	5.48	7.29	
May	4.43	4.1	4.19	2.93	
Jun	3.56	3.16	3.25	2.34	
Jul	3.56	1.46	3.38	1.92	
Aug	2.75	2.44	1.93	2.12	
Sep	2.14	1.84	1.37	1.48	
Oct	3.07	2.42	2.09	3.43	
Nov	2.49	2.05	1.83	2.52	
Dec	2.92	1.79	2.63	3.39	
Total	31.43	34.00	34.09	35.94	

Table 10-1Monthly Rain Gage Totals – 2014

Note 1: Rain gage at Brentwood Reservoir was out of order from January to March 2014.

10.8 CSO OVERFLOW MODEL PREDICTIONS

A computer model of the CSS was developed and calibrated as part of the preparation of the LTCP. The model is the Danish Hydraulic Institute's MIKE URBAN Model. The model is updated to reflect changes in the sewer system. In accordance with the permit, the model is run quarterly to make predictions of actual overflows to the receiving water in the prior calendar quarter. Quarterly model results for 2012 are included in Appendix 10-4.

Based on the model results, the total overflow volume for 2014 is summarized in Table 10-2:

	Predicted CSO Overflow Volume in 2014 (mg)				
	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total
Anacostia River CSOs	115	425	93	68	701
Potomac River CSOs	30	160	36	18	244
Rock Creek CSOs	2	15	3	2	22
Total	147	600	131	89	967

Table 10-2Predicted CSO Overflow Volume for 2014

APPENDIX 10-1

SCADA System – Inflatable Dam Monitoring

Inflatable Dam		
Structure No.	Overflow Dates	Estimated Duration of Overflow (hrs)
14 (E & W)	None	N/A
15		3 mins
	1/11	
15A		2 mins
	1/11	
16 (E & W)	None	N/A
24	1/11	8 mins
34	None	N/A
35	1/11	19 mins
52	None	N/A
Structures on Outfall	Overflow Dates	Estimated Duration of Overflow
Sewers	Overfilow Dules	Estimated Duration of Overflow
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	None	None
Outfall Sewer Control	Operational	Position
Gates	Status	
Outfall Sewer Control	Operational	Open
Gate No. 1		
Outfall Sewer Control	Operational	Open
Gate No.2		

Inflatable Dams & SCADA Sites - Wet Weather Operations January 2014

Inflatable Dam		
Structure No.	Overflow Dates	Estimated Duration of Overflow (hrs)
14 (E & W)	None	N/A
15	2/3	13 mins
15A	2/3	2 hr, 30 mins
16 (E & W)	2/3	8 hrs, 38mins
24	2/3	46 mins
34	None	N/A
35	2/3	2 hrs, 19 mins
52	None	N/A
Structures on Outfall Sewers	Overflow Dates	Estimated Duration of Overflow
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	None	None
Outfall Sewer Control	Operational	Position
Gates	Status	
Outfall Sewer Control	Operational	Open
Gate No. 1		
Outfall Sewer Control	Operational	Open
Gate No.2		

Inflatable Dams & SCADA Sites - Wet Weather Operations February 2014

Inflatable Dam		
Structure No.	Overflow Dates	Estimated Duration of Overflow (hrs)
14 (E & W)	None	N/A
15	3/29	2 mins
15A	3/24	57 mins
	3/29	1 hr, 36 mins
	3/30	3 hrs, 52 mins
16 (E & W)	None	N/A
24	None	N/A
34	None	N/A
35	3/30	49 mins
52	None	N/A
Structures on Outfall		
Sewers	Overflow Dates	Estimated Duration of Overflow
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	None	None
Outfall Sewer Control	Operational	Position
Gates	Status	
Outfall Sewer Control	Operational	Open
Gate No. 1		
Outfall Sewer Control	Operational	Open
Gate No.2		

Inflatable Dams & SCADA Sites - Wet Weather Operations March 2014

Inflatable Dam	Overflow	
Structure No.	Dates	Estimated Duration of Overflow (hrs)
14 (E & W)	None	N/A
15	4/7	2 mins
	4/15	6 hrs, 12 mins
	4/16	2 mins
	4/25	2 mins
	4/29	3 mins
	4/30	2 hrs, 51 mins
15A	4/7	10 mins
	4/15	6 hrs, 38 mins
	4/16	51 mins
	4/25	26 mins
	4/29	48 mins
	4/30	2 hrs. 17 mins
16 (E & W)	None	N/A
24	4/15	1 hr 3 mins
21	4/29	23 mins
	4/30	2 hrs,22 mins
34	4/15	8 mins
51	4/30	1 hr 24 mins
35	4/7	10 mins
55	4/1 1/15	2 brs 12 mins
	4/15	
	4/23	20 mins
	4/29	2 hrs 49 mins
52	4/30	5 III's, 46 Mins
52	None	///A
Structures on Outfall	Overflow	
Sewers	Dates	Estimated Duration of Overflow
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	None	None
Outfall Sewer Control	Operational	Position
Gates	Status	
Outfall Sewer Control	Operational	Open
Gate No. 1	*	*
Outfall Sewer Control	Operational	Open
Gate No.2		

Inflatable Dams & SCADA Sites - Wet Weather Operations April 2014

Inflatable Dam	Overflow	
Structure No.	Dates	Estimated Duration of Overflow (hrs)
14 (E & W)	None	N/A
15	5/1	3 mins
	5/16	1 hr, 44 mins
	5/27	2 mins
15A	5/16	2 hrs, 37 mins
	5/27	1 hr, 8 mins
16 (E & W)	5/16	2 hrs, 7 mins
	5/27	23 mins
24	5/1	2 mins
	5/6	2 mins
	5/16	1 hr, 10 mins
	5/27	13 mins
34	5/16	19 mins
	5/27	15 mins
35	5/2	10 mins
	5/15	4 mins
	5/16	1hr, 25 mins
	5/19	21 mins
	5/20	11 mins
	5/30	5 mins
52	None	N/A
Structures on	Overflow	
Outfall Sewers	Dates	Estimated Duration of Overflow
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer
		nossible.
Outfall Structure	None	This structure has been bulk headed. Overflows are no longer
1A		nossible.
Outfall Structure 2	None	None
Outfall Sewer	Operational	Position
Control Gates	Status	
Outfall Sewer	Operational	Open
Control Gate No. 1	operational	op
Outfall Sewer	Operational	Open
Control Gate No.2	Optimion	

Inflatable Dams & SCADA Sites - Wet Weather Operations May 2014

Inflatable Dam	Overflow	
Structure No.	Dates	Estimated Duration of Overflow (hrs)
14 (E & W)	None	N/A
15	6/11	16 mins
	6/12	3 mins
	6/13	3 mins
	6/26	3 mins
15A	6/11	1 hr, 20 mins
	6/12	1 hr, 20 mins
	6/13	22 mins
	6/25	1 hr, 18 mins
	6/26	48 mins
16 (E & W)	6/3	14 mins
	6/10	5 mins
	6/11	26 mins
	6/25	26 mins
24	6/3	25 mins
	6/10	8 mins
	6/11	17 mins
	6/12	2 mins
	6/13	14 mins
	6/25	6 mins
	6/26	2 mins
34	6/11	11 mins
	6/13	2 mins
35	6/11	6 mins
	6/12	4 mins
	6/25	6 mins
52	None	N/A
Structures on	Overflow	
Outfall Sewers	Dates	Estimated Duration of Overflow
Outfall Structure 1	None	This structure has been bulk headed. Overflows are no longer
Outfall Structure	None	This structure has been hulk headed. Overflows are no longer
	None	nossible
Outfall Structure 2	None	None
	None	None
Outfall Sowor	Operational	Position
Control Gates	Status	1 05111011
Outfall Sewer	Operational	Open
Control Gate No	operational	open
1		
Outfall Sewer	Operational	Open
Control Gate No 2	operational	open
Control Gate No.2		

Inflatable Dams & SCADA Sites - Wet Weather Operations June 2014

Inflatable Dam	Overflow	
Structure No.	Dates	Estimated Duration of Overflow (hrs)
14 (E & W)	None	N/A
15	7/8	2 mins
	7/10	4 mins
	7/14	3 mins
15A	7/8	36 mins
	7/10	2 hrs, 58 mins
	7/11	29 mins
	7/14	1 hr ,42 mins
	7/15	2 hrs, 45 mins
	7/16	1 hr, 56 mins
16 (E & W)	7/8	2 mins
	7/10	26 mins
	7/14	15 mins
	7/15	1 hr, 24 mins
24	7/3	2 mins
	7/4	2 mins
	7/8	5 mins
	7/9	4 mins
	7/10	11 mins
	7/14	14 mins
	7/15	13 mins
	7/16	2 mins
34	7/10	14 mins
	7/14	14 mins
35	7/8	9 mins
	7/10	30 mins
	7/14	6 mins
	7/15	19 mins
52	None	N/A
Structures on	Quarflow	
Outfall Sowers	Dates	Estimated Duration of Overflow
Outfall Structure 1	Nono	This structure has been bulk headed. Overflows are no longer
Outian Structure 1	None	possible.
Outfall Structure	None	This structure has been bulk headed. Overflows are no longer
1A		possible.
Outfall Structure 2	None	None
Outfall Sewer	Operational	Position
Control Gates	Status	
Outfall Sewer Control	Operational	Open
Gate No. 1		
Outfall Sewer Control Gate No 2	Operational	Open
Gate No.2	=	-

Inflatable Dams & SCADA Sites - Wet Weather Operations July 2014

Inflatable Dam Structure No.	Overflow Dates	Estimated Duration of Overflow (hrs)
14 (E & W)	None	N/A
15	8/12	1 hrs, 8 mins
15A	8/12	6 hrs, 22 mins
16 (E & W)	8/12	29 mins
24	8/3	7 mins
	8/6	2 mins
	8/12	44 mins
34	8/12	22 mins
35	8/12	2 hrs, 53 mins
52	None	N/A
Structures on Outfall Sewers	Overflow Dates	Estimated Duration of Overflow
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	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

Inflatable Dams & SCADA Sites - Wet Weather Operations_ August 2014

Inflatable Dam	Overflow	
Structure No.	Dates	Estimated Duration of Overflow (hrs)
14 (E & W)	None	N/A
15	9/24	3 mins
	9/25	19 mins
15A	9/25	2 hrs, 38 mins
16 (E & W)	9/25	5 mins
24	9/1	2 mins
	9/2	2 mins
	9/6	2 mins
	9/25	25 mins
34	None	N/A
35	9/2	6 mins
	9/6	9 mins
	9/25	23 mins
52	None	N/A
Structures on Outfall	Overflow	
Sewers	Dates	Estimated Duration of Overflow
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	None	None
Outfall Sewer Control	Operational	Position
Gates	Status	
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.

Inflatable Dams & SCADA Sites - Wet Weather Operations_ September 2014

Inflatable Dam	Overflow	
Structure No.	Dates	Estimated Duration of Overflow (hrs)
14 (E & W)	None	N/A
15	None	N/A
15A	None	N/A
16 (E & W)	10/15	24 mins
24	None	N/A
34	None	N/A
35	10/15	36 mins
52	None	N/A
Structures on Outfall	Overflow	
Sewers	Dates	Estimated Duration of Overflow
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	None	None
Outfall Sewer Control	Operational	Position
Gates	Status	
Outfall Sewer Control	Operational	Open
Gate No. 1		
Outfall Sewer Control	Operational	Open
Gate No.2		

Inflatable Dams & SCADA Sites - Wet Weather Operations October 2014

Inflatable Dam		
Structure No.	Overflow Dates	Estimated Duration of Overflow (hrs)
14 (E & W)	None	N/A
15	None	N/A
15A	None	N/A
16 (E & W)	None	N/A
24	11/17/14	2 hours, 22 mins
34	None	N/A
35	None	N/A
52	None	N/A
Structures on Outfall		
Sewers	Overflow Dates	Estimated Duration of Overflow
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	None	None
Outfall Sewer Control	Operational	Position
Gates	Status	
Outfall Sewer Control	Operational	Open
Gate No. 1		
Outfall Sewer Control	Operational	Open
Gate No.2		

Inflatable Dams & SCADA Sites - Wet Weather Operations November 2014

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
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	None	None
Outfall Sewer Control	Operational	Position
Gates	Status	
Outfall Sewer Control	Operational	Open
Gate No. 1		
Outfall Sewer Control	Operational	Open
Gate No.2		

Inflatable Dams & SCADA Sites - Wet Weather Operations December 2014

APPENDIX 10-2

Condition Report for Bar Racks at Main & O Street Pumping Stations

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Station to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Claude Price

Date Inspected: <u>1/2/2014</u>

Pumping Station	Inspector	Date Inspected	Condition			Work Performed
			Good	Needs Work	work needed	or Schedule for Completion
Bar Racks at O Street Storm Pumps (CSO 010)	СР	1/2	х			
Bar Racks at Main Storm Pumps (CSO 011)	СР	1/2	Х			

Condition Report Bar Racks at Main and O Street Storm Pumps DC Water performs visual surveys of the bar racks at Main and O Street Pumping Station to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Clarence McCray Inspector:

Date Inspected: ____2/14/2014_____

Pumping Station	Inspector	Date Inspected	Condition			Work Performed
			Good	Needs Work	vvork Needed	or Schedule for Completion
Bar Racks at O Street Storm Pumps (CSO 010)	СР	2/14	Х			
Bar Racks at Main Storm Pumps (CSO 011)	СР	2/14	Х			

Condition Report Bar Racks at Main and O Street Storm Pumps DC Water performs visual surveys of the bar racks at Main and O Street Pumping Station to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Gregory Stephens Inspector:

Date Inspected: <u>3/24/14</u>

Pumping Station	Inspector	Date Inspected	Condition			Work Performed
			Good	Needs Work	vvork Needed	or Schedule for Completion
Bar Racks at O Street Storm Pumps (CSO 010)	СР	3/24	Х			
Bar Racks at Main Storm Pumps (CSO 011)	СР	3/24	Х			

Condition Report Bar Racks at Main and O Street Storm Pumps DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Gregory Stephens Inspector:

Date Inspected: _____4/23/14 ___

Pumping Station	Inspector	Date Inspected	Condition			Work Performed
			Good	Needs Work	work Needed	or Schedule for Completion
Bar Racks at O Street Storm Pumps (CSO 010)	СР	4/23	Х			
Bar Racks at Main Storm Pumps (CSO 011)	СР	4/23	Х			

Condition Report Bar Racks at Main and O Street Storm Pumps DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Clarence McCray_ Inspector:

Date Inspected: <u>5/30/14</u>

Pumping Station	Inspector	Date Inspected	Condition			Work Performed
			Good	Needs Work	Work Needed	or Schedule for Completion
Bar Racks at O Street Storm Pumps (CSO 010)	СР	5/30	Х			
Bar Racks at Main Storm Pumps (CSO 011)	СР	5/30	Х			

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Gregory Stephens

Date Inspected: ____6/25/14 ___

Pumping Station	Inspector	Date Inspected	Condition			Work Performed
			Good	Needs Work	Work Needed	or Schedule for Completion
Bar Racks at O Street Storm Pumps (CSO 010)	СР	6/25	х			
Bar Racks at Main Storm Pumps (CSO 011)	СР	6/25	Х			

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: _____Gregory Stephens_

Date Inspected: ____7/24/14___

Pumping Station	Inspector	Date Inspected	Condition			Work Performed
			Good	Needs Work	VVORK Needed	or Schedule for Completion
Bar Racks at O Street Storm Pumps (CSO 010)	СР	7/24	Х			
Bar Racks at Main Storm Pumps (CSO 011)	СР	7/24	Х			

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Gregory Stephens

Date Inspected: 8/11/14

Pumping Station	Inspector	Date Inspected	Condition			Work Performed
			Good	Needs Work	work Needed	or Schedule for Completion
Bar Racks at O Street Storm Pumps (CSO 010)	СР	8/11	Х			
Bar Racks at Main Storm Pumps (CSO 011)	СР	8/11	Х			

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Gregory Stephens

Date Inspected: 9/18/14

Pumping Station	Inspector	Date Inspected	Condition			Work Performed
			Good	Needs Work	Work Needed	or Schedule for Completion
Bar Racks at O Street Storm Pumps (CSO 010)	СР	9/18	Х			
Bar Racks at Main Storm Pumps (CSO 011)	СР	9/18	Х			

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Gregory Stephens

Date Inspected: 10/07/14

Pumping Station	Inspector	Date Inspected	Condition			Work Performed
			Good	Needs Work	vvork Needed	or Schedule for Completion
Bar Racks at O Street Storm Pumps (CSO 010)	СР	10/07	Х			
Bar Racks at Main Storm Pumps (CSO 011)	СР	10/07	Х			

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Gregory Stephens

Date Inspected: <u>11/18/14</u>

Pumping Station	Inspector	Date Inspected	Condition			Work Performed
			Good	Needs Work	Work Needed	or Schedule for Completion
Bar Racks at O Street Storm Pumps (CSO 010)	СР	11/18	Х			
Bar Racks at Main Storm Pumps (CSO 011)	СР	11/18	Х			

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

Inspector: Gregory Stephens

Date Inspected: 12/07/14

Pumping Station	Inspector	Date Inspected	Condition			Work Performed
			Good	Needs Work	Work Needed	or Schedule for Completion
Bar Racks at O Street Storm Pumps (CSO 010)	СР	12/07	Х			
Bar Racks at Main Storm Pumps (CSO 011)	СР	12/07	Х			

Appendix 10-3

Northeast Boundary Swirl Facility Monitoring Data
	Approx. Storm				Approx. Screenings
	$Duration^{1}$	Total Influent	Total Foul Sewer	Total Effluent	<i>Volume</i> ³
Date	(Hours)	Volume (mg)	Volume (mg)	Volume ² (mg)	# of bins (cu ft)
1/11/2014	5	23.8	23.8	0.0	56.0
1/11/2014	5	5.9	5.9	0.0	8.0

Northeast Boundary Swirl Facility - Wet Weather Operations-January 2014

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.

2. Calculated as follows: Total Influent Volume - Total Foul Sewer Volume.

3. One Bin = 80 ft^3

	Approx. Storm				Approx. Screenings
	Duration1	Total Influent	Total Foul Sewer	Total Effluent	Volume3
Date	(Hours)	Volume (mg)	Volume (mg)	Volume2 (mg)	# of bins (cu ft)
2/3/2014	11	51.6	51.6	0.0	84
2/3/2014	3	1.5	1.5	0.0	0
2/5/2014	5	3.3	3.3	0.0	12

Northeast Boundary Swirl Facility – Wet Weather Operations-February 2014

Note:

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.

Calculated as follows: Total Influent Volume - Total Foul Sewer Volume.

2. 3. One Bin = 80 ft^3

	Approx. Storm				Approx. Screenings
	Duration	Total Influent	Total Foul Sewer	Total Effluent	Volume ^o
Date	(Hours)	Volume (mg)	Volume (mg)	Volume ² (mg)	# of bins (cu ft)
3/3/2014	14.5	15.2	15.2	0.0	24
3/19/2014	16.5	3.7	3.7	0.0	20
3/29/2014	8.25	20.0	4.3	15.7	80
3/30/2014	1.5	0.8	0.8	0.0	0
3/30/2014	6.5	15.3	15.3	0.0	72
3/30/2014	8	27.3	3.9	23.5	88
3/31/2014	2.5	1.3	1.3	0.0	0

Northeast Boundary Swirl Facility - Wet Weather Operations-March 2014

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.

2. Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.

3. One Bin = 80 ft^3

		-		-	
	Approx. Storm	Total Influent	Total Foul Sewer	Total Effluent	Approx. Screenings Volume ³
	Duranon	10iui Injiueni	Total Four Sewer	Τθιαι Εμπιεπι	voiume
Date	(Hours)	Volume (mg)	Volume (mg)	Volume ² (mg)	# of bins (cu ft)
4/7/2014	3.75	6.3	6.3	0.0	92
4/15/2014	6.75	30.4	30.4	0.0	148
4/15/2014	8	33.0	4.1	29.0	150
4/16/2014	4	1.8	1.8	0.0	4
4/25/2014	4.5	9.6	9.6	0.0	11
4/29/2014	6.5	2.4	2.4	0.0	6
4/29/2014	8	15.5	3.6	12.0	111
4/30/2014	7.5	15.4	15.4	0.0	112
4/30/2014	8.5	44.1	4.7	39.4	128
4/30/2014	8	38.9	3.1	35.8	135

Northeast Boundary Swirl Facility - Wet Weather Operations-April 2014

Note:

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.

2. Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.

3. One Bin = 80 ft^3

	Approx. Storm				Approx. Screenings
	Duration ⁴	Total Influent	Total Foul Sewer	Total Effluent	Volume ³
Date	(Hours)	Volume (mg)	Volume (mg)	Volume ² (mg)	# of bins (cu ft)
5/1/2014	8	5.9	5.9	0	0
5/6/2014	1	9.2	9.2	0	32
5/6/2014	3	1.5	1.5	0	16
5/7/2014	2.5	3.0	3.0	0	16
5/16/2014	8	13.8	13.8	0	28
5/17/2014	8	24.9	24.9	0	76
5/21/2014	3.5	4.9	4.9	0	80
5/27/2014	4.5	8.2	8.2	0	20
5/28/2014	4	1.1	1.1	0	28

Northeast Boundary Swirl Facility - Wet Weather Operations-May 2014

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.

2. Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.

3. One Bin = 80 ft^3

	Approx. Storm				Approx. Screenings
	$Duration^{1}$	Total Influent	Total Foul Sewer	Total Effluent	<i>Volume</i> ³
Date	(Hours)	Volume (mg)	Volume (mg)	$Volume^2 (mg)$	# of bins (cu ft)
6/3/2014	6	11.3	11.3	0.0	40
6/5/2014	6	6.6	6.6	0.0	111
6/9/2014	5.5	4.9	4.9	0.0	95
6/10/2014	5	5.7	5.7	0.0	100
6/11/2014	5	11.4	11.4	0.0	200
6/13/2014	6	10.9	10.9	0.0	200
6/25/2014	2	6.5	6.5	0.0	112
6/26/2014	2	1.1	1.1	0.0	48

Northeast Boundary Swirl Facility – Wet Weather Operations-June 2014

Note:

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.

2. Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.

 $3. \qquad \text{One Bin} = 80 \text{ ft}^3$

	Approx. Storm				Approx. Screenings
	$Duration^{1}$	Total Influent	Total Foul Sewer	Total Effluent	<i>Volume</i> ³
Date	(Hours)	Volume (mg)	Volume (mg)	Volume ² (mg)	# of bins (cu ft)
7/3/2014	5.5	3.9	3.9	0.0	80.0
7/8/2014	5	6.5	6.5	0.0	60.0
7/9/2014	4	6.3	6.3	0.0	12.0
7/10/2014	4.5	9.8	9.8	0.0	12.0
7/14/2014	4.5	9.6	9.6	0.0	12.0
7/15/2014	8	17.8	17.8	0.0	20.0
7/16/2014	2.5	2.1	2.1	0.0	12.0

Northeast Boundary Swirl Facility - Wet Weather Operations-July 2014

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.

2. Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.

 $3. One Bin = 80 ft^3$

Northeast Boundary Swirl Facility – Wet Weather Operations-August 2014

	Approx. Storm				Approx. Screenings
	Duration ¹	Total Influent	Total Foul Sewer	Total Effluent	<i>Volume</i> ³
Date	(Hours)	Volume (mg)	Volume (mg)	Volume ² (mg)	# of bins (cu ft)
8/3/2014	4.5	7.6	7.6	0.0	10
8/6/2014	4	2.7	2.7	0.0	10
8/12/2014	5.25	34.2	34.2	0.0	100
8/12/2014	4	4.2	4.2	0.0	10

Note:

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.

2. Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.

3. One Bin = 80 ft^3

	Approx. Storm				Approx. Screenings
	Duration1	Total Influent	Total Foul Sewer	Total Effluent	Volume3
Date	(Hours)	Volume (mg)	Volume (mg)	Volume2 (mg)	# of bins (cu ft)
9/2/2014	4.75	13.1	13.1	0.0	68
9/6/2014	4	4.2	4.2	0.0	164
9/25/2014	3	23.7	2.3	21.3	600
9/25/2014	8.5	3.5	3.5	0.0	120

Northeast Boundary Swirl Facility - Wet Weather Operations-September 2014

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.

. Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.

2. Calculated as fol 3. One Bin = 80 ft^3

	Approx. Storm				Approx. Screenings
	Duration1	Total Influent	Total Foul Sewer	Total Effluent	Volume3
Date	(Hours)	Volume (mg)	Volume (mg)	Volume2 (mg)	# of bins (cu ft)
10/1/2014	4	3.0	3.0	0.0	30.0
10/8/2014	4	0.4	0.4	0.0	40.0
10/11/2014	4	4.4	4.4	0.0	20.0
10/15/2014	3	10.2	10.2	0.0	100.0
10/15/2014	8	14.7	14.7	0.0	130.0
10/22/2014	2	4.0	4.0	0.0	30.0
10/22/2014	8.5	19.1	5.6	13.5	160.0

Northeast Boundary Swirl Facility - Wet Weather Operations-October 2014

Note:

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.

2. Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.

3. One Bin = 80 ft^3

	Approx. Storm				Approx. Screenings
	Duration1	Total Influent	Total Foul Sewer	Total Effluent	Volume3
Date	(Hours)	Volume (mg)	Volume (mg)	Volume2 (mg)	# of bins (cu ft)
11/6/2014	5	4.1	4.1	0.0	30.0
11/17/2014	4	0.2	0.2	0.0	1.0
11/24/2014	3.75	14.9	14.9	0.0	112.0
11/26/2014	8	28.5	6.3	22.2	32.0
11/26/2014	4	2.2	2.2	0.0	10.0

Northeast Boundary Swirl Facility - Wet Weather Operations-November 2014

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.

2. Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.

 $3. One Bin = 80 ft^3$

Northeast Boundary Swirl Facility – Wet Weather Operations-December 2014
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110	of theast Doulla			operations 2000	
	Approx. Storm Duration1	Total Influent	Total Foul Sewer	Total Effluent	Approx. Screenings Volume3
Date	(Hours)	Volume (mg)	Volume (mg)	Volume2 (mg)	# of bins (cu ft)
12/2/2014	5.5	11.7	11.7	0.0	80.0
12/2/2014	3	2.8	2.8	0.0	10.0
12/6/2014	4	2.7	2.7	0.0	10.0
12/16/2014	4.75	15.1	15.1	0.0	85.0
12/24/2014	6.5	7.5	7.5	0.0	50.0
12/24/2014	8.5	0.1	0.1	0.0	1.0

Note:

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.

2. Calculated as follows: Total Influent Volume – Total Foul Sewer Volume.

 $3. \qquad \text{One Bin} = 80 \text{ ft}^3$

Appendix 10-4

CSO Overflow Predictions

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Combined Sewer System Model Results Period: January, February, and March 2014 SCENARIO: Y2014_Q1, produced April 11, 2014

				T ()			
			CSO	Total		Maximum	Minimum
		Number of	Overflow	Duration of	Avg Duration	Duration of	Duration of
		Overflows	Volume	Overflow	of Overflow	Overflow	Overflow
NPDES No.	Description	(Occurrences)	(mg)	(hrs)	(hrs)	(hrs)	(hrs)
Anacostia CSC	s						
005	Chicago St and Railroad Station SE	12	2.11	54.50	4.54	17.75	0.25
	Good Hope Road, West of Nichols			sepa	rated		
006	Ave.,SE						
007	13 th Street and Ridge Place,SE	5	0.42	5.75	1.15	3.75	0.25
	2nd Street, 300 feet North of N Place,						
009	SE	10	0.75	16.25	1.63	5.75	0.25
	O Street SewagePumping Station, SE						
010	(pumped Overflow)	5	12.19	3.25	0.65	1.25	0.25
	South of Main Sewage Pumping						
011	Station, SE (pumped overflow)	0	0.00	0.00	0.00	0.00	0.00
	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	0.01	0.25	0.25	0.25	0.25
013	4th and N Streets, SE	9	0.88	19.50	2.17	6.50	0.75
014	6th and M Streets, SE	5	1.20	10.25	2.05	6.50	0.25
015	9th and M Streets, SE	4	0.01	4.75	1.19	3.50	0.25
016	12th and M Streets. SE	1	0.43	3.75	3.75	3.75	3.75
017	14th and M Streets, SE	8	4.33	35.75	4.47	16.50	0.50
-	Barnev Circle and Pennsylvania Ave.						
018	SE	4	1.46	9.25	2.31	5.25	1.00
019	Northeast Boundary - Swirl Effluent	4	91.33	40.25	10.06	16.75	3.25
019	Northeast Bound, - Swirl Bypass	0	0.00	0.00	0.00	0.00	0.00
	SUBTOTAL	-	115.13				
Potomac CSOs	5						
003	Bolling AFB	0	0.00	0.00	0.00	0.00	0.00
	23rd Street. North of Constitution Ave.						
020	NW (Easby Point)	1	1.38	4.00	4.00	4.00	4.00
021	Northeast of Roosevelt Bridge, NW	4	21.54	8.00	2.00	4.75	0.25
022	27th and K Streets, NW	6	0.16	9.75	1.63	5 25	0.25
024	30th and K Streets, NW	4	1.37	9.75	2.44	5.25	0.25
025	31st & K St NW	0	0.00	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 of Street, NW	11	5.41	80.25	7.30	23.50	1.50
028	36th and M Streets NW	7	0.53	17 75	2 54	6.00	0.25
020	Canal Road 1000 feet east of Rock		0.00		2.01	0.00	0.20
029	Creek NW	1	0.005	0.50	0.50	0.50	0.50
020	SUBTOTAL	1	30 39	0.00	0.00	0.00	0.00
	000101/12		00.00				
Rock Creek							
	Pennsylvania Avenue, East Rock						
031	Creek, NW			sepa	rated		
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	2	0.012	3 75	1.88	3.50	0.00
000	Northwest of Belmontand Rock Creek	2	0.012	0.70	1.00	0.00	0.20
037	and Potomac Parkway			sepa	rated		
037	North of Belmont Road east of						
038	Kalorama Circle NM/	0	0.00	0.00	0.00	0.00	0.00
030	Connecticut Avenue cost of Pools	U	0.00	0.00	0.00	0.00	0.00
000	Crock NW	0	0.00	0.00	0.00	0.00	0.00
039	Diltmore Street extended east of	U	0.00	0.00	0.00	0.00	0.00
040		0	0.00	0.00	0.00	0.00	0.00
040	NUCKUTEEK, INW	U	0.00	0.00	0.00	0.00	0.00
0.44	Unitano extended and ROCK Ureek	0	0.00	0.00	0.00	0.00	0.00
041	Parkway	U	0.00	0.00	0.00	0.00	0.00
0.10	Harvard Street and RockCreek	<u> </u>	0.00	0.00	0.00	0.00	0.00
042	Parkway, INVV	U	0.00	0.00	0.00	0.00	0.00

Combined Sewer System Model Results Period: January, February, and March 2014 SCENARIO: Y2014_Q1, produced April 11, 2014

			CSO	Total		Maximum	Minimum
		Number of	Overflow	Duration of	Avg Duration	Duration of	Duration of
		Overflows	Volume	Overflow	of Overflow	Overflow	Overflow
NPDES No.	Description	(Occurrences)	(mg)	(hrs)	(hrs)	(hrs)	(hrs)
	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	5	1.809	8.75	1.75	5.00	0.25
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,		•		rotod	•	
053	NW			sepa	rated		
	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	2	0.05	3.25	1.63	1.75	1.50
	Connecticut Avenue and Rock Creek				·		
058	Parkway, NW			sepa	rated		
060	P St and 26 th St. NW	0	0.00	0.00	0.00	0.00	0.00
001	SUBTOTAL	L. L.	1.87	0.000	0111	0111	0.000
	TOTAL		147.39				

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Combined Sewer System Model Results Period: April, May, and June 2014 SCENARIO: Y2014_Q2, produced July 9, 2014

				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)e							
005	Chicago St and Railroad Station SE	18	4.72	53.50	2.97	14.25	0.25	
	Good Hope Road, West of Nichols		1		rotod			
006	Ave.,SE			sepa	raleu			
007	13 th Street and Ridge Place,SE	12	5.02	18.25	1.52	7.25	0.25	
	2nd Street, 300 feet North of N Place,				4.00			
009	SE	11	3.27	21.25	1.93	7.00	0.50	
010	(numbed Overflow)	Q	47.10	11 75	1 47	6.25	0.25	
010	South of Main Sewage Pumping	0	47.15	11.75	1.47	0.20	0.20	
011	Station, SE (pumped overflow)	0	0.00	0.00	0.00	0.00	0.00	
	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)	3	2.37	4.75	1.58	3.25	0.50	
013	4th and N Streets, SE	13	2.43	25.00	1.92	7.50	0.25	
014	6th and M Streets, SE	11	8.31	33.50	3.05	11.75	0.25	
015	9th and M Streets, SE	12	1.73	14.75	1.23	5.25	0.25	
016	12th and M Streets, SE	7	5.77	16.00	2.29	6.50	0.75	
017	14th and M Streets, SE	16	15.34	63.00	3.94	20.25	0.25	
	Barney Circle and Pennsylvania Ave,							
018	SE	12	7.59	28.50	2.38	11.50	0.25	
019	Northeast Boundary - Swirl Effluent	17	287.81	116.50	6.85	35.25	0.50	
019	Northeast Bound Swirl Bypass	4	33.02	5.25	1.31	2.25	0.25	
	SUBTOTAL		424.57					
Potomac CSOs	5							
003	Bolling AFB	0	0.00	0.00	0.00	0.00	0.00	
	23rd Street, North of Constitution Ave,							
020	NW (Easby Point)	6	10.93	18.75	3.13	8.00	0.75	
021	Northeast ofRoosevelt Bridge, NW	8	115.74	28.75	3.59	11.50	0.50	
022	27th and K Streets, NW	16	1.51	31.75	1.98	14.25	0.25	
024	30th and K Streets, NW	7	14.07	33.25	4.75	14.00	0.25	
025	31st & K St NW	5	0.17	4.25	0.85	2.25	0.25	
026	Wisconsin Avenue andK St., NW	0	0.00	0.00	0.00	0.00	0.00	
027	Water Street West of Street, NW	18	13.16	100.25	5.57	31.25	1.00	
028	36th and M Streets, NW	18	1.90	34.75	1.93	11.50	0.25	
	Canal Road 1000 feet east of Rock							
029	Creek,NW	4	2.22	8.00	2.00	3.25	0.75	
	SUBTOTAL		159.72					
Rock Creek								
	Pennsylvania Avenue, East Rock			sepa	rated			
031								
032	26th and M Streets, NW	0	0.00	0.00	0.00	0.00	0.00	
	N Street extendedwest of 25th							
033	Street,NVV	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	7	0.204	15.50	2.21	7.25	0.25	
	Northwest of Belmontand Rock Creek			sepa	rated			
037	and Potomac Parkway							
	North of Belmont Road,east of							
038	Kalorama Circle, NW	0	0.00	0.00	0.00	0.00	0.00	
	Connecticut Avenue east of Rock							
039	Creek, NW	0	0.00	0.00	0.00	0.00	0.00	
	Biltmore Street extended east of							
040	RockCreek, NW	0	0.00	0.00	0.00	0.00	0.00	
	Ontario extended and Rock Creek							
041	Parkway	0	0.00	0.00	0.00	0.00	0.00	

Combined Sewer System Model Results Period: April, May, and June 2014 SCENARIO: Y2014_Q2, produced July 9, 2014

			1	T ()			
				Iotal		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	1	0.03	0.25	0.25	0.25	0.25
	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	1	0.01	0.25	0.25	0.25	0.25
	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	1	0.004	0.25	0.25	0.25	0.25
049	Piney Branch and LamontStreet, NW	10	11.318	25.50	2.55	11.00	0.25
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			sepa	rated		
	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	5	3.77	33.50	6.70	17.25	0.75
	Connecticut Avenue and Rock Creek	-					
058	Parkway, NW			sepa	rated		
060	P St and 26 th St_NW	0	0.00	0.00	0.00	0.00	0.00
000	SUBTOTAL		15.34	0.00	0.00	0.00	0.00
			10.04				
	TOTAL		599.63				
	-	1	000.00		1		1

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Combined Sewer System Model Results Period: July, August, September 2014 SCENARIO: Y2014_Q3, produced October 9, 2014

		Number of Overflows	CSO Overflow	Total Duration of Overflow	Avg Duration of Overflow	Maximum Duration of Overflow	Minimum Duration of Overflow
NPDES No.	Description	(Occurrences)	Volume (mg)	(hrs)	(hrs)	(hrs)	(hrs)
Anacostia CSC	Anacostia CSOs						
005	Chicago St and Railroad Station SE	14	1.91	28.50	2.04	6.00	0.25
000	Good Hope Road, West of Nichols			sepa	rated		
006	Ave.,SE	0	0.00	0.00	0.00	0.00	0.00
007	13 Street and Ridge Place, SE	0	0.00	0.00	0.00	0.00	0.00
009	SF	6	0.63	6.50	1.08	2 00	0.50
	O Street SewagePumping Station. SE		0.00	0.00	1.00	2.00	0.00
010	(pumped Overflow)	4	10.94	3.00	0.75	1.25	0.25
	South of Main Sewage Pumping						
011	Station, SE (pumped overflow)	0	0.00	0.00	0.00	0.00	0.00
	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)	0	0.00	0.00	0.00	0.00	0.00
013	4th and N Streets, SE	8	0.53	8.50	1.06	3.25	0.25
014	6th and M Streets, SE	8	1.59	14.75	1.84	5.25	0.25
015	9th and M Streets, SE	8	0.12	7.50	0.94	2.25	0.25
016	12th and M Streets, SE	6	0.64	0.50	1.08	2.00	0.25
017	Ramey Circle and Pennsylvania Ave	0	4.19	21.75	2.12	0.00	0.25
018	SE	6	1 80	12.25	2.04	5 25	0.50
010	Northeast Boundary - Swirl Effluent	0	63.11	28.25	7.06	8.25	5.50
019	Northeast Bound - Swirl Bypass	1	7 24	0.75	0.75	0.20	0.00
010	SUBTOTAL	•	92 79	0.10	0.70	0.70	0.70
Potomac CSOs	3						
003	Bolling AFB	0	0.00	0.00	0.00	0.00	0.00
	23rd Street, North of Constitution Ave,						
020	NW (Easby Point)	2	1.64	4.50	2.25	3.25	1.25
021	Northeast ofRoosevelt Bridge, NW	2	27.22	7.00	3.50	4.75	2.25
022	27th and K Streets, NW	8	0.37	11.25	1.41	4.75	0.25
024	30th and K Streets, NW	4	1.30	7.25	1.81	5.75	0.25
025	31st & K St NW	3	0.02	0.75	0.25	0.25	0.25
026	Wisconsin Avenue andK St., NW	0	0.00	0.00	0.00	0.00	0.00
027	Water Street West of Street, NW	12	4.10	33.75	2.81	6.75	0.75
028	36th and M Streets, NW	9	0.59	12.50	1.39	5.00	0.25
020		2	0.29	2.50	0.92	1 50	0.50
029		3	0.38	2.50	0.83	1.50	0.50
	SUBTUTAL		33.04				
Rock Creek							
	Pennsylvania Avenue, East Rock		•		rotod	•	
031	Creek, NW			sepa	Taleu		
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	3	0.043	4.50	1.50	2.75	0.50
007	INORTHWEST OF BEIMONTAND ROCK Creek			sepa	rated		
037	anu Potomac Parkway		1				
000	North of Bermont Road, east of		0.00	0.00	0.00	0.00	0.00
038	Connecticut Avenue aget of Back	U	0.00	0.00	0.00	0.00	0.00
030		0	0.00	0.00	0.00	0.00	0.00
039	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
0.10	Ontario extended and Rock Creek	Ŭ Ŭ	0.00	0.00	0.00	0.00	0.00
041	Parkway	0	0.00	0.00	0.00	0.00	0.00

Combined Sewer System Model Results Period: July, August, September 2014 SCENARIO: Y2014_Q3, produced October 9, 2014

				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
040	Diney Drench and Lamant Street NIM	2	0.047	7.50	0.75	5.00	2.50
049	Plney Branch and LamontStreet, NW	2	2.617	7.50	3.75	5.00	2.50
050	Olive Street extended and Back Creek	0	0.00	0.00	0.00	0.00	0.00
051	Drive Street extended and Rock Creek	0	0.00	0.00	0.00	0.00	0.00
001	O Street extended and Rock Creek	0	0.00	0.00	0.00	0.00	0.00
052	Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
002	O Street west of Rock Creek Parkway	0	0.00	0.00	0.00	0.00	0.00
053	NW			sepa	rated		
000	West Side of Rock Creek300 ft, south		[1
054	of Mass, Ave. NW	0	0.00	0.00	0.00	0.00	0.00
	Normanstone Drive extended west of		0.00	0.00	0.00	0.00	0.00
056	Rock Creek. NW	0	0.00	0.00	0.00	0.00	0.00
	28th Street extended west of Rock						
057	Creek, NW	2	0.21	3.25	1.63	2.75	0.50
	Connecticut Avenue and Rock Creek						
058	Parkway, NW			sepa	rated		
060	P St and 26 th St, NW	0	0.00	0.00	0.00	0.00	0.00
	SUBTOTAL	-	2.87				
	TOTAL		131.29				

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Combined Sewer System Model Results Period: October, November, December 2014 SCENARIO: Y2014_Q4, produced January 13, 2015

-							
				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)
		((- /	(- <i>1</i>		
Anacostia CSC)s						
005	Chicago St and Railroad Station SE	12	1.41	34.75	2.90	8.50	0.25
	Good Hope Road, West of Nichols						
006	Ave SE			separ	ated		
000	12 th Street and Pidge Place SE	1	0.66	2.00	0.50	1.00	0.25
007	2nd Street 200 feet North of N Dises	4	0.00	2.00	0.50	1.00	0.25
000	2nd Street, 300 leet North of N Flace,	4	0.19	2.75	0.04	1 75	0.50
009	OE	4	0.10	3.75	0.94	1.75	0.50
040	C Street SewagePumping Station, SE	-		4.05	0.05	0.05	0.05
010		5	4.44	1.25	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)	0	0.00	0.00	0.00	0.00	0.00
013	4th and N Streets, SE	8	0.12	5.00	0.63	2.00	0.25
014	6th and M Streets, SE	3	0.64	4.00	1.33	2.75	0.50
015	9th and M Streets, SE	4	0.15	2.00	0.50	1.00	0.25
016	12th and M Streets, SE	3	0.41	2.00	0.67	1.50	0.25
017	14th and M Streets, SE	8	2.75	22.00	2.75	5.50	1.00
	Barney Circle and Pennsylvania Ave,						
018	SE	5	1.01	4.25	0.85	2.75	0.25
019	Northeast Boundary - Swirl Effluent	6	53.78	33.25	5.54	10.00	1.50
019	Northeast Bound - Swirl Bypass	1	1.79	0.75	0.75	0.75	0.75
010		•	68 19	0.10	0.10	0.70	0.10
	COBICIAL		00.10				
Potomac CSOs							
003	Bolling AFB	0	0.00	0.00	0.00	0.00	0.00
003	23rd Street North of Constitution Ave	0	0.00	0.00	0.00	0.00	0.00
020	NW (Eashy Point)	1	0.62	1 75	1 75	1 75	1 75
020	Northeast of Poosevelt Bridge NW	2	12 22	2.50	1.75	2.25	0.50
021	27th and K Straata NW	5	0.14	5.00	1.17	2.25	0.30
022	27th and K Streets, NW	5	0.14	5.00	1.00	2.30	0.25
024		1	0.06	1.25	1.25	1.25	1.25
025	31ST & K ST NVV	1	0.02	0.50	0.50	0.50	0.50
026	Wisconsin Avenue and KSt., NW	0	0.00	0.00	0.00	0.00	0.00
027	Water Street West of Street, NW	14	3.58	65.75	4.70	11.25	0.25
028	36th and M Streets, NW	10	0.33	11.50	1.15	2.25	0.25
	Canal Road 1000 feet east of Rock						
029	Creek,NW	1	0.20	0.75	0.75	0.75	0.75
	SUBTOTAL		18.29				
Rock Creek							
	Pennsylvania Avenue, East Rock			separ	ated		
031	Creek, NW						
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	2	0.027	1.75	0.88	1.50	0.25
	Northwest of Belmontand Rock Creek			•			
037	and Potomac Parkway			separ	aleo		
	North of Belmont Road,east of					1	
038	Kalorama Circle NW	0	0.00	0.00	0.00	0.00	0.00
000	Connecticut Avenue east of Rock	<u> </u>	0.00	0.00	0.00	0.00	0.00
020	Creek NW	0	0.00	0.00	0.00	0.00	0.00
033	Biltmore Street extended east of	0	0.00	0.00	0.00	0.00	0.00
040	PockCrock NW	0	0.00	0.00	0.00	0.00	0.00
040	Ontaria avtanded and Deals Oreals	0	0.00	0.00	0.00	0.00	0.00
0.11			0.00	0.00	0.00	0.00	0.00
041	Parkway	0	0.00	0.00	0.00	0.00	0.00

Combined Sewer System Model Results Period: October, November, December 2014 SCENARIO: Y2014_Q4, produced January 13, 2015

	T			Total		Movimum	Minimum
		Number of	020	Duration of		Duration of	Duration of
		Overflowe	Overflow	Overflow	Avy Duration	Overflow	Overflow
	Description			(bro)	(hro)	(bro)	(bro)
NPDES NO.	Leschption	(Occurrences)	volume (mg)	(IIIS)	(115)	(IIIS)	(IIIS)
042	Parkway NW	0	0.00	0.00	0.00	0.00	0.00
042	Adams Mill Pood South of Inving	0	0.00	0.00	0.00	0.00	0.00
042	Street NW	0	0.00	0.00	0.00	0.00	0.00
043	Kenvon Street and Adams Mill Road	0	0.00	0.00	0.00	0.00	0.00
044	NW	0	0.00	0.00	0.00	0.00	0.00
044	Adams Mill Road and Lamont Street	0	0.00	0.00	0.00	0.00	0.00
045	NM/	1	0.004	0.25	0.25	0.25	0.25
045	Park Road south of Piney Branch	1	0.004	0.25	0.25	0.25	0.25
046	Parkway NW	0	0.00	0.00	0.00	0.00	0.00
040	Indeside Terrace extended and Piney	0	0.00	0.00	0.00	0.00	0.00
047	Branch Parkway	0	0.00	0.00	0.00	0.00	0.00
041	Mt. Pleasant Street extended and	0	0.00	0.00	0.00	0.00	0.00
048	Piney Branch Parkway	0	0.00	0.00	0.00	0.00	0.00
0.10			0.00	0.00	0.00	0.00	0.00
049	Pinev Branch and LamontStreet. NW	3	2.039	3.75	1.25	2.50	0.25
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		1				
052	Parkway, NW	0	0.00	0.00	0.00	0.00	0.00
	O Street west of Rock Creek Parkway,						1
053	NW			separ	ateo		
	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		·	sopar	atad		, <u> </u>
057	Creek, NW			separ	aleu		
	Connecticut Avenue and Rock Creek			sopar	rated		
058	Parkway, NW			Sepai	aleu		
060	P St and 26 th St, NW	0	0.00	0.00	0.00	0.00	0.00
	SUBTOTAL		2.07				
	TOTAL		88.55				

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Year 2014 Nine Minimum Controls Annual Report For Combined Sewer System



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