Appendix A 2011 Memoranda of Understanding

MEMORANDUM OF UNDERSTANDING
BETWEEN THE
DISTRICT DEPARTMENT OF THE ENVIRONMENT
AND THE
DISTRICT DEPARTMENT OF TRANSPORTATION

I. INTRODUCTION

This Memorandum of Understanding ("MOU") is entered into between the District of Columbia Department of the Environment, the buyer agency ("DDOE") and the Department of Transportation, the seller agency ("DDOT"), collectively referred to herein as the "Parties."

II. PROGRAM GOALS AND OBJECTIVES

Pursuant to D.C. Official Code § 8-152.01, a Stormwater Administration has been established within DDOE to monitor and coordinate activities of all District of Columbia ("District") agencies that are required to maintain compliance with the municipal separate storm sewer system ("MS4") National Pollutant Discharge Elimination System Permit issued by the United States Environmental Protection Agency ("MS4 Permit"). Stormwater discharges from the MS4 are authorized by the MS4 Permit issued to the District as Permittee. In order to reduce stormwater pollution, the MS4 Permit contains a compliance schedule which requires the District to collect and submit information regarding pollution sources, significant changes in the identification of storm sewer system outfalls and changes affecting the separate storm sewer system due to land use activities, population estimates, runoff characteristics, structural controls, reporting requirements and other matters.

The stormwater management activities being implemented pursuant to this MOU such as low impact development ("LID") projects in the right-of-way ("ROW"), curb cuts, green alleys and performance monitoring are supported by fees collected by the District of Columbia Water and Sewer Authority and credited to the Stormwater Permit Compliance Enterprise Fund ("Enterprise Fund"). The Stormwater Administrator is authorized to certify the sufficiency of the Enterprise Fund to meet MS4 Permit budget requests. DDOE and DDOT acknowledge that it may be necessary to amend, program, reprogram or supplement the budget request hereunder in order to lawfully undertake activities required by the MS4 Permit. In the event of a budget shortfall, the Stormwater Administrator shall allocate the remaining funds giving priority to the projects that he or she determines would provide the most benefit in reducing stormwater pollution to the District. The purpose of this MOU is to provide the terms and conditions under which DDOE and DDOT will administer finances and reimbursements from the Enterprise Fund for activities conducted by DDOT to reduce pollutants to the District under the MS4 Permit.

III. SCOPE OF SERVICES

Pursuant to the applicable authorities and in the furtherance of the shared goals of the Parties to carry out the purposes of this MOU expeditiously and economically, the Parties do hereby agree to administer the Enterprise Fund as follows:

A. RESPONSIBILITIES OF DDOT:

1. DDOT shall provide a copy of the architectural/engineering plan and an "As-built" drawing for each of the projects to be constructed. The list of projects ("Projects") and the requested budget amount for each is included in Exhibit A, attached hereto and made a part hereof.

2. DDOT shall obtain all applicable permits required to complete each project included in Exhibit A.

3. DDOT shall provide a monthly report to DDOE that details the agency's progress towards completion of the projects.

4. DDOT shall provide written requests to the DDOE Watershed Protection Division for inspections during construction of the projects as needed.

5. DDOT shall provide a maintenance schedule for each project.

6. DDOT shall provide a map of updated information regarding locations of trees planted pursuant to this MOU to the Office of the Chief Technology Officer ("OCTO") for inclusion in the District of Columbia Geographic Information System. In addition, DDOT will provide additional information to OCTO for inclusion of a new field to indicate the dates for watering and other maintenance activities for the trees planted pursuant hereto.

7. DDOT shall submit reconciliations to DDOE no later than September 30th of the current fiscal year which shall explain the amounts charged for that period. Reconciliations shall include:

   a) Descriptions of all activities performed and exact locations of projects within the ROW;

   b) Copies of invoices or other applicable documentation detailing costs incurred by DDOT to complete the projects hereunder; and

   c) The amount of time DDOT staff spent on the various stormwater projects funded through this MOU.

8. DDOT shall provide funding in the amount of Four Hundred Thousand Dollars ($400,000) from DDOT's allotment from the Stormwater Permit Compliance Enterprise Fund for the design of RiverSmart Washington demonstration projects. These funds are obligated and shall be used solely for RiverSmart Washington demonstration project activities in the public space in the following sewersheds:

   a) The Combined Sewer Outfall (CSO) 031 sewershed within the Rock Creek watershed in the District of Columbia, which is located along Pennsylvania Avenue NW west of 26th Street NW and east of Rock Creek. This sewershed is currently combined, but is in the process of being separated; and

   b) A separated sewershed within the Pinehurst Branch sub-watershed of Rock Creek. Specifically the MS4 sewershed is along a two block portion of Quesada Street, NW between 32nd Street, NW and 34th Street, NW.

   In the event that there are funds remaining after completion of the design of RiverSmart Washington demonstration projects, such funds shall be used for installation of the projects.

9. DDOT shall provide funding in the amount of Six Hundred Thousand Dollars ($600,000) from DDOT's allotment from the Stormwater Permit Compliance Enterprise Fund, plus any remaining funds allocated for design, for the installation of RiverSmart Washington demonstration projects. These funds shall be used solely for RiverSmart Washington demonstration project activities in the public space in the sewersheds outlined in subsections 8.a and 8.b above.

B. **RESPONSIBILITIES OF DDOE:**

1. The Stormwater Administrator may request additional information from DDOT to justify a project or activity to be completed pursuant to this MOU. Approval of the detailed budget request included as Exhibit A by the Stormwater Administrator is pre-approval for transfer of budget authority from DDOE to DDOT to expend funds to complete approved projects or activities pursuant to this MOU.

2. The Stormwater Administrator shall submit the required documentation for the transfer of budget authority within five (5) business days of approval of the budget request; provided however, that the Stormwater Administrator's budget authority transmittal shall be subject to total approved budget limits, as well as cash or revenues available in the Enterprise Fund.

3. The Stormwater Administrator shall review and approve programmatic changes or modifications that might affect the estimated green roof footprints.

4. DDOE shall transfer One Million, Eight Hundred Seventy-Five Thousand, Four Hundred Twenty-One Dollars and Sixty-Six Cents (1,875,421.66) via an Intra-District advance to DDOT for completion of the projects included in Exhibit A.

5. In the event of a budget shortfall in the Enterprise Fund, the Stormwater Administrator shall allocate funds giving priority to the projects that he or she determines would provide the most benefit in reducing stormwater pollution. If the Stormwater Administrator determines that the projected fiscal year's revenues from the Enterprise Fund will be less than the anticipated costs of DDOT's proposed budget, the Stormwater Administrator may request that DDOT provide funds to cover the shortage. DDOT shall have the option, but not the obligation, to provide such funds subject to the required appropriation.

6. The Stormwater Administrator may request additional supporting documentation, if necessary, to evaluate reconciliations required by DDOT in Section A above.

IV. DURATION OF MOU

A. The period of this MOU shall begin on the date the last Party hereto executes this MOU and shall expire on September 30, 2011, unless terminated in writing by the Parties prior to the expiration.

B. The Parties may extend the term of this MOU by exercising a maximum of one (1) one-year option periods. Option periods may consist of a year, a fraction thereof, or multiple successive fractions of a year. DDOE shall provide notice of its intent to renew an option period prior to the expiration of the MOU.

C. The exercise of an option period is subject to the availability of funds at the time of the exercise of the option.

V. AUTHORITY FOR MOU

1. D.C. Official Code § 1-301.01(k).

2. D.C. Official Code § 8-151.03(b)(2).

3. D.C. Official Code §§ 8-152.01 & 8-152.02.

VI. FUNDING PROVISIONS

A. COST OF SERVICES

1. Total cost for services provided under this MOU shall not exceed One Million, Eight Hundred Seventy-Five Thousand, Four Hundred Twenty-One Dollars and Sixty-Six Cents (1,875,421.66) for Fiscal Year 2011 ("FY11") based on the budget request attached as Exhibit A. Funding for the services hereunder shall not exceed the actual cost incurred by DDOT. Costs related to DDOT overhead such as staff time and/or training shall be funded pursuant to an amendment of this MOU or a subsequent written agreement between the Parties.

2. In the event of termination of the MOU, payment to DDOT shall be held in abeyance until all required fiscal reconciliation, but not longer than September 30 of the current fiscal year.

B. PAYMENT

1. Payment shall be made through an Intra-District advance by DDOE to DDOT based on the total amount of this MOU, and shall be treated as capital funds allocated to DDOT.

2. DDOT shall submit reconciliations as provided herein which shall explain the expenditure of funds hereunder.

3. Advances to DDOT for the services to be performed/goods to be provided shall not exceed the amount of this MOU.

4. DDOT will relieve the advance and bill DDOE through the Intra-District process only for those goods or services actually provided pursuant to the terms of this MOU. DDOT will return any excess advance to DDOE prior to the termination of this MOU.

5. The Parties' Directors or their designees shall resolve all adjustments and disputes arising from services performed under this MOU. In the event that the Parties are unable to resolve a financial issue, the matter shall be referred to the D.C. Office of Financial Operations and Systems.

C. ANTI-DEFICIENCY CONSIDERATIONS

The Parties acknowledge and agree that their respective obligations to fulfill financial obligations of any kind pursuant to any and all provisions of this MOU, or any subsequent agreement entered into by the parties pursuant to this MOU, are and shall remain subject to the provisions of (i) the federal Anti-Deficiency Act, 31 U.S.C. §§1341, 1342, 1349, 1351, (ii) the District of Columbia Anti-Deficiency Act, D.C. Official Code §§ 47-355.01-355.08 (2001), (iii) D.C. Official Code § 47-105 (2001), and (iv) D.C. Official Code § 1-204.46 (2006 Supp.), as the foregoing statutes may be amended from time to time, regardless of whether a particular obligation has been expressly so conditioned.

VII. COMPLIANCE AND MONITORING

As this MOU is funded by District of Columbia funds, DDOT will be subject to scheduled and unscheduled monitoring reviews to ensure compliance with all applicable requirements.

VIII. RECORDS AND REPORTS

DDOT shall maintain records and receipts for the expenditure of all funds provided for a period of no less than three years from the date of expiration or termination of the MOU and, upon the District of Columbia's request, make these documents available for inspection by duly authorized representatives of the DDOE and other officials as may be specified by the District of Columbia at its sole discretion.

IX. CONFIDENTIAL INFORMATION

The Parties to this MOU will use, restrict, safeguard and dispose of all information related to services provided by this MOU, in accordance with all relevant federal and local statutes, regulations, policies. Information received by either Party in the performance of responsibilities associated with the performance of this MOU shall remain the property of the buyer agency.

X. TERMINATION

This MOU may be terminated without penalty. Either Party may terminate this MOU in whole or in part and without cause by written notice to the other Party at any time prior to the expiration hereof.

XI. NOTICE

The following individuals are the contact points for each Party under this MOU:

Jeffrey Seltzer, P.E.
Associate Director Stormwater Management Division
District Department of the Environment
1200 First Street, NE, 6th Floor
Washington, DC 20002
Phone 202-535-1603

Reginald Arno, P.E.
Supervisory Civil Engineer
District Department of Transportation
64 New York Avenue, NE, 1st Floor
Washington, DC 20002
Phone 202-741-5340

XII. MODIFICATIONS

The terms and conditions of this MOU may be modified only upon prior written agreement by the Parties.

XIII. PROCUREMENT PRACTICES ACT

If a District of Columbia agency or instrumentality plans to utilize the goods or services of an agent or third party (e.g., contractor, consultant) to provide any of the goods or services specified under this MOU, then the agency or instrumentality shall abide by the provisions of the District of Columbia Procurement Practices Act of 1985 (D.C. Official Code § 2-301.01 *et seq.*) to procure the goods or services of the agent or third party.

XIV. MISCELLANEOUS

The Parties shall comply with all applicable laws, rules and regulations whether now in force or hereafter enacted or promulgated.

Signatures on Next Page.

IN WITNESS WHEREOF, the Parties hereto have executed this MOU as follows:

DISTRICT DEPARTMENT OF THE ENVIRONMENT

Christophe A.G. Tulou
Director

Date: 4.12.11

Kimberly Katzenbarger, Esq.
General Counsel

Date: 4-11-11

DISTRICT DEPARTMENT OF TRANSPORTATION

Terry Bellamy
Interim Director

Date: 4-1-11

EXHIBIT A

FY 2011 BUDGET REQUEST

Item	Location	Description	Implementation Phase	FY09 Budget	FY09 Spending	FY10 Budget	FY10 Spending	FY11 budget	Estimated time of completion/ Comments
1	Nebraska Ave NW *	Two bioretention swales along north side of Nebraska Avenue between Stephenson and Oregon Avenue and one bioswale at the triangle intersection at Oregon Avenue	Construction	$150,000.00	$0.00	$150,000.00	$148,027.68	$0.00	Constructed October-November 2009. Total project cost $148,574.66. Invoices are still being processed.
2	Nannie Helen Burroughs Avenue NE	Pre Construction Monitoring to be conducted prior to construction start; 25% DDOT match to EPA grant; total monitoring cost $65K	Monitoring	$50,000.00	$0.00	$16,250.00	$0.00	$65,000.00	The NHB Ave project was on hold for more than a year. A grant agreement with Howard University is in the process of being established to conduct the monitoring.
3	Nannie Helen Burroughs Avenue NE & Watts Branch Bike Trail ROW's *	Great Street & Green Street includes many Low Impact Development areas: 2 bioretention cells, 1 bioswale, & 12 bioretention planters along roadway; permeable concrete sidewalks and tree planting improvements. Design includes carbon activated catch basins in addition to water quality catch basins; Also includes bioretention area relocated from Watts Branch Bike Trail to NHB Ave btw. 46th & 48th St. ($379,420 for bioretention planters and swales + $40,000 for four carbon activated catch basins)	Construction	$360,533.00	$0.00	$475,426.00	$0.00	$0.00	NHB Ave project was on hold for more than a year due to funding availability. Project started construction in October 2010. The project has been fully funded through ARRA and local Transportation funds. No additional funds are needed for construction.
4	I-295 Vegetated Swale	2100 LF bioswale as alternative to riprap plan in highway median to slow runoff		$310,800.00	$0.00	$110,500.00	$0.00	$0.00	Further review of this project site indicated little water quality improvement would be gained from installing the swale in the location where it is currently heavily vegetated. The project was
5	LID Retrofit Projects: 1)Fitch St. near Division Ave NE 2)Erie St & Morris Rd SE 3)Ft Davis SE 4)East Beach Drive NW *	Design of LID Pilot Projects, including Streetside Bioretention & Vegetated swales at sites 1,2,&3; Traffic calming stormwater bumpouts at site 4; 3000 LF of roadway runoff directed to bioswales at site 5	Design	$150,000.00	$0.00	$288,315.42	$109,798.82	$178,516.60	Design contract signed with Baker in December 2009, 30% designs received April 2010; Proceed to 90% design August 2010; 90% designs received December 2010
6	LID Retrofit Projects: 1)Fitch St. near Division Ave NE 2)Erie St & Morris Rd SE 3)Ft Davis SE 4)East Beach Drive NW *	Construction of LID Pilot Projects (Fitch Pl bioretention $60K; Erie St bioretention $80K; O St bumpouts $200K; East Beach Dr $320K)	Construction	$650,000.00	$0.00	$700,000.00	$0.00	$520,000.00	Construction will start following design completion. Estimate start May 2011
7	Design of Green Alley Pilot Projects	Design to retrofit 3 alleys with permeable pavement (Ashley Terrace, Quesada Street and Upshur Street). Total length of alley work is 2,172 feet	Design	$200,000.00	$0.00	$200,000.00	$0.00	$300,000.00	Design 3 alleys (7 segments), estimated completion of design March 2011.
8	Construction of Green Alley Pilot Projects	Retrofit 8 alleys with permeable pavement as per MOU executed between DDOE and DDOT to transfer ARRA funds	Construction					$0.00	Construction of 8 alleys will be funded by ARRA ($975K). A separate MOU was entered between DDOE and DDOT for the construction of these alleys.
9	River Smart DC Sewershed retrofit: 1) Broad Branch NW 2) Pennsylvania Ave NW	Use the Green Build Out Model to retrofit a small sewershed with green infrastructure. Project is multi-agency, public-non-profit partnership receiving funds from NFWF Targeted Watershed Grant and WASA for projects on public and private lands; DDOT will construct permeable pavement, bioretention, bioswales, and curb bumpouts where feasible in selected locations. DDOT has been asked to commit $1 million of stormwater funds to this Project.	Design			$350,000.00	$0.00	$400,000.00	LID projects to meet commitments under new permit. Design procurement in process. Must design & construct project by March 2012 to meet NFWF grant deadline.
10	River Smart DC Sewershed retrofit: 1) Broad Branch NW 2) Pennsylvania Ave NW	Using the designs from the implementation phase above retrofit two small sewersheds with green infrastructure in order to test the Green Build Out Model and help determine the maximum extent practicable that LID can be utilized to control runoff from rooftops and sidewalks	Construction					$600,000.00	Plan to start construction Fall 2011
11	Oxon Run park and adjacent roads from South Capitol St to Valley Ave & 13th St SE	Oxon Run Trail LID Retrofits	Design					$253,915.45	Oxon Run Trail concept plan included LID retrofits for 106,005 SF of ROW area; Design procurement in process; planned construction for FY12
12	LID Retrofit Projects: Additional sites TBD in Watts Branch, Pope Branch, and Rock Creek watersheds	Design of LID Pilot Projects, including Bumpouts, Curb cuts, Vegetated swales designed by DDOT personnel	Design			$300,000.00	$0.00	$0.00	Plan to issue Design RFP Spring 2011
13		Develop site list for LID retrofits using streetside bioretention, bioswales, tree space stormwater planters, curb bumpouts, triangle parks, and permeable paving. Previous LID site lists and watershed implementation plans will be used as initial lists with the outcome focused specifically on managing road runoff. LID retrofit projects will meet commitments under TMDL implementation plans and BMP Enhancement package.	Planning			$350,000.00	$0.00	$0.00	
14		The Drainage Manual will establish policies and procedures for the design of the drainage system of the public ROW to provide durable and safe transportation infrastructure. The manual will address all aspects of the drainage system, including hydrologic and hydraulic design for bridges, culverts, pump stations, storm drains, median and roadside channels, pavement drainage facilities, urban retention and detention facilities, water quality improvement practices, and erosion and sediment control.	Planning					$0.00	Plan to issue RFP to consultant in Spring 2011
15	MS4 area	UFA MS4 Plantings	Construction	$300,000.00	$304,176.00	$300,000.00	$300,564.00	$300,000.00	1498 trees planted in FY09 season using MS4 funds; 1125 trees planted in FY10 season; FY11 Planting season November 2010 - March 2011

ATTACHMENT A

IMPLEMENTATION SCHEDULE
DDOT STORMWATER PROJECTS PAID BY MS4 CAPITAL FUNDS

3/29/2011

Item	Location	Description	Implementation Phase	FY09 Budget	FY09 Spending	FY10 Budget	FY10 Spending	FY11 budget	Estimated time of completion/ Comments
17		DDOT continued its monitoring efforts to access the performance of several water quality (WQ) catch basins and other BMP structures installed around the District. The monitoring is done as part of a pilot test project to determine maintenance requirements and the efficiency of those structures in reducing pollution from storm water runoff. DDOT plans to assess the results with DDOE and WASA to incorporate the selected structures into DDOT Design and Construction Standards for implementation in all DDOT's projects. DDOT will follow the industry's standard monitoring protocol in its monitoring efforts of WQ catch basins, which depends on specific occurrences of rain events. DDOT's monitoring efforts were initiated following a consensus agreement arrived at during a December 10, 2007 meeting held at	Monitoring	$312,167.00	$0.00				The WQ catch basin monitoring was conducted from May 2007 until July 2008. The project has completed and final report delivered 3/30/2009. Additional invoices were expected in FY09, but not received, so no additional payments were made.
18	MS4 wide	Water newly injected treat 3 times during summer	Maintenance					$40,000.00	Plan to issue contract in spring 2011.
19	MS4 area	Regular maintenance of LID features in ROW	Maintenance			$200,000.00	$0.00	$150,000.00	DDOT is pursuing multiple paths for LID maintenance. DDOT is developing a LID maintenance training program within our Business Opportunity and Workforce Development Center and the University of District of Columbia Community College. DDOT is also exploring maintenance options using in-house staff and partnerships with other agencies. No maintenance was performed by DDOT on LID sites in FY10.
20		DDOT Staff support includes (1) Program Manager, (1) project manager, (3.0) project engineers and (3.5) construction inspectors responsible for reviewing private and public ROW project to assure appropriate design and inclusion of of storm water quality features such as LID and water quality option basins. In addition, the team staff evaluates public space for potential LID projects, assists DDOT facilities in meeting NPDES permit requirements, manages consultants and contractors for design, construction, maintenance, and monitoring of LID/BMP sites, oversee construction of	Project Management	$300,000.00	$4,308.69	$300,000.00	$388,692.75	$388,673	FY 2011 staff estimate is for 3.9 FTE, including engineering staff, construction inspectors, and DDOT staff in review and oversight for design and construction projects. (personnel costs are = 388,673, benefits @ 19.6 % = 66,889.2 and leave @23.4 %= 84163.8)
21		Staff benefits	Personnel					$66,889	
21		Staff leave	Personnel					$84,163	
22		Training - Installation and material testing of a permeable green alley	Personnel	$1,500.00	$0.00	$6,000.00	$0.00	$25,000.00	
		TOTAL Costs							
		TOTAL MS4 Annual BUDGET		$3,705,000.00	$308,333.69	$3,706,000.42	$974,309.26	$3,347,707.71	
		MS4 Funds - Start Balance			$0.00		$2,391,666.31	$1,467,349.05	
		MS4 Funds - Transferred			$2,700,000.00		$0.00	$1,875,421.66	<-- FY11 Budget Needed
		MS4 Funds - End Balance			$2,391,666.31		$1,467,349.05		

*LID cost hitting requirement in MS4 BMP Enforcement Package (11/07/07)

INTRA-DISTRICT STANDARD REQUEST FORM

Government of the District of Columbia

PART I

GENERAL

MOU NUMBER: _____ DATE OF MOU:

BUYER INFORMATION

AGENCY: Department of the Environment (DDOE) AGENCY CODE: KG0

NAME OF CONTACT: Robert Jose, Agency Financial Officer

ADDRESS : 2000 14th Sroet, NW

Washington, DC

TELEPHONE # : _____

FAX # :

AUTHORIZING OFFICER SIGNATURE _____ DATE: 4/12/11

SELLER INFORMATION

AGENCY: Department of Transportation (DDOT) AGENCY CODE: KA0

NAME OF CONTACT: Kathryn Valentine, Budget Officer

ADDRESS : 2000 14th Street, NW

Washington DC 20009

TELEPHONE # : (202) 671-2522

FAX # : (202) 671-4049

AUTHORIZING OFFICER SIGNATURE _____ DATE: __/__/__

PLEASE SEE NEXT PAGE FOR FUNDING INFORMATION

PART II

MOU NUMBER: _____ 2 OF 2

SERVICE INFORMATION AND FUNDING CODES

GOOD/ SERVICE: MS4 STORM WATER

DATE: TOTAL: $ 1,875,421.66

	AGY	YR	ORG CODE	FUND	INDEX	PCA	OBJ	ADBJ	GRANT/PH	PROJ/PH
SELLER	KA0	09	3080	7750	T4253	CONS3	4600	4600		STRMWA09
BUYER	KG0									

GOOD/ SERVICE: _____

DATE: ___ / ___ / ___ TOTAL: _____

	AGY	YR	ORG CODE	FUND	INDEX	PCA	OBJ	ADBJ	GRANT/PH	PROJ/PH

GOOD/ SERVICE: _____

DATE: ___ / ___ / ___ TOTAL: _____

	AGY	YR	ORG CODE	FUND	INDEX	PCA	OBJ	ADBJ	GRANT/PH	PROJ/PH
SELLER							4600			
BUYER										

GOOD/ SERVICE: _____

DATE: ___ / ___ / ___ TOTAL: _____

	AGY	YR	ORG CODE	FUND	INDEX	PCA	OBJ	ADBJ	GRANT/PH	PROJ/PH
SELLER							4600			
BUYER										

MEMORANDUM OF UNDERSTANDING
BETWEEN
THE DISTRICT DEPARTMENT OF THE ENVIRONMENT
AND
THE DEPARTMENT OF PUBLIC WORKS
REGARDING IMPLEMENTATION OF ENHANCED STREET SWEEPING

I. INTRODUCTION

This Memorandum of Understanding ("MOU") is entered into between the District of Columbia Department of the Environment, the buyer agency ("DDOE") and the Department of Public Works, the seller agency ("DPW"), collectively referred to herein as the "Parties."

DDOE has requested the services of DPW to conduct activities to reduce pollutants to the District of Columbia, under the municipal separate storm sewer system ("MS4") National Pollutant Discharge Elimination System ("NPDES") Permit ("MS4 Permit"). This MOU is entered into by and between DDOE and DPW to administer finances from the Storm Water Permit Compliance Enterprise Fund ("Enterprise Fund") for activities conducted to reduce pollutants to the District of Columbia, under the MS4 Permit. This MOU is being issued as the Phase II Implementation of the Enhanced Street Sweeping project, to allow DPW to continue to implement the new routes for its signed street sweeping program in FY 2011. DPW anticipates that the new routes and new environmental sweeping in the MS4 will begin in March 2011.

II. PROGRAM GOALS AND OBJECTIVES

WHEREAS, storm water discharges from the MS4 are authorized by the NPDES Permit Number: DC0000221 issued to the District of Columbia as Permittee;

WHEREAS, on August 19, 2004, the United States Environmental Protection Agency ("EPA") re-issued the District's MS4 Permit Number: DC0000221 to authorize storm water discharges to the District of Columbia as Permittee;

WHEREAS, EPA and DDOE, signed a Letter of Agreement dated November 27, 2007 which committed the District to additional measures to improve the quality of stormwater discharges authorized under the District's MS4 Permit Number: DC0000221;

WHEREAS, the MS4 Permit and Letter of Agreement contain compliance schedules which requires the District of Columbia to compile and submit information on pollution sources, significant changes in the identification of storm sewer system outfalls, and changes affecting the separate storm sewer system due to land use activities, population estimates, runoff characteristics, structural controls, reporting requirements and other matters as outlined in the MS4 Permit Implementation Plan, in order to reduce storm water pollution;

WHEREAS, the MS4 Permit and Letter Agreement outline additional activities to be undertaken by the District;

WHEREAS, DDOE and DPW have been assigned activities in the MS4 Permit Implementation Plan;

WHEREAS, the MS4 Task Force has been established with representatives from DDOE, DDOT, DPW, WASA, Department of Real Estate Services ("DRES"), Department of Parks and Recreation ("DPR"), Office of Planning ("OP"), and the Office of Public Education Facility Modernization ("OPEFM") to manage the activities required in the MS4 Permit, pursuant to the establishment of Comprehensive Stormwater Management Enhancement Amendment Act of 2008, D.C. Official Code § 8-152.01 *et seq.*;

WHEREAS, the Director of DDOE, or his designee, was made the Storm Water Administrator with primary responsibility for heading the Storm Water Administration, pursuant to the Establishment of the District Department of the Environment Act of 2005, D.C. Official Code § 8-151.03(b)(2);

WHEREAS, the storm water management activities in the Implementation Plan are supported by fees collected by WASA in the Enterprise Fund, and the Storm Water Administrator is authorized to certify the sufficiency of the Enterprise Fund to meet MS4 Permit budget requests;

WHEREAS, DDOE and DPW acknowledge that it may be necessary for some or all parties in the MS4 Task Force to take action to amend, program, reprogram or supplement their respective budgets in order to lawfully undertake activities required by the MS4 permit and wish to set forth how these actions will be taken; and

WHEREAS, in the event that not all the projects can be funded, priority will be given to the projects that provide the most benefit in reducing storm water pollution and can be implemented most expeditiously as determined by DDOE and DPW.

NOW THEREFORE, in consideration of the promises mutually exchanged, the receipt and sufficiency of which are acknowledged by DDOE and DPW both agree to administer the Storm Water Permit Compliance Enterprise Fund (Storm Water Fund) as follows:

III. SCOPE OF SERVICES

Pursuant to the applicable authorities and in the furtherance of the shared goals of the Parties to carry out the purposes of this MOU expeditiously and economically, the Parties do hereby agree:

A. RESPONSIBILITIES OF DPW:

1. DPW shall submit a draft of the DPW Enhanced Street Sweeping Report, for review and comment by DDOE. DDOE may share the report with the Friends of the Earth.
2. Following the review period, and finalization of the Enhanced Street Sweeping Report, DPW shall implement the findings of the report, to the extent that funds are

available for this purpose. Costs that can be funded by MS4 funds include actual costs incurred for the following:

a. Additional signage and sign modification as needed to implement sweeping of new routes identified in the street sweeping study in the MS4 area; and
b. Additional project management and staff resources necessary to implement enhanced street sweeping measures in the MS4 area.

The parties understand and agree that work will be done throughout the District of Columbia in order to implement enhanced street sweeping measures in the MS4 area.

3. DPW shall coordinate route planning for enhanced street sweeping with the DDOE Storm Water Administrator to assure that enhanced sweeping is conducted within the MS4 area, and is focused on areas that will be identified by DDOE as environmental hotspots in the Anacostia Trash TMDL Implementation Plan.

B. RESPONSIBILITIES OF DDOE:

1. The Storm Water Administrator shall authorize the transfer of funds from DDOE to DPW for the expenditures conducted by DPW for the activities listed in Section A. Approval of funds transmitted is subject to total approved budget limits, as well as cash or revenues available in the Enterprise Fund.
2. The Storm Water Administrator may request supporting documentation, if necessary, to evaluate the status of the activities or to detail how the activities will address the overall MS4 Permit Implementation Plan.

IV. DURATION OF MOU

The period of this MOU shall be from October 1, 2010, through September 30, 2011, unless terminated in writing by the Parties prior to the expiration.

V. AUTHORITY FOR MOU

The Parties are authorized to enter into this MOU pursuant to D.C. Official Code § 1-301.01(k).

VI. FUNDING PROVISIONS

A. COST OF SERVICES

1. Total cost for services under this MOU shall not exceed $ 250,420 for Fiscal Year 2011.

2. The estimated cost of this MOU is based on the proposed Scope of Services, as outlined in Section III during the term of this MOU.
3. In the event of termination of the MOU, DPW shall return all unspent funds to DDOE no later than November 30 of the next fiscal year.

B. PAYMENT

1. Payment shall be made through an Intra-District advance by DDOE to DPW based on the total amount of this MOU.
2. DPW shall submit reconciliations by November 30th, 2011 which shall explain the amounts charged for the period. The invoices shall include: (1) list of materials and their costs; (2) labor costs including hourly rates for all labors; (3) reasonable overhead; and (4) applicable documentation demonstrating MS4 relevant work.
3. Advances to DPW for the services to be performed/goods to be provided shall not exceed the amount of this MOU.
4. DPW will receive the advance through the Intra-District process only for actual costs incurred for those goods or services actually provided pursuant to the terms of this MOU. Any unobligated funds, at the end of the fiscal year, will be returned to DDOE's Enterprise Fund.
5. The Parties' Directors or their designees shall resolve all adjustments and disputes arising from services performed under this MOU. In the event that the Parties are unable to resolve a financial issue, the matter shall be referred to the D.C. Office of Financial Operations and Systems.

C. ANTI-DEFICIENCY CONSIDERATIONS

The Parties acknowledge and agree that their respective obligations to fulfill financial obligations of any kind pursuant to any and all provisions of this MOU, or any subsequent agreement entered into by the parties pursuant to this MOU, are and shall remain subject to the provisions of (i) the federal Anti-Deficiency Act, 31 U.S.C. §§1341, 1342, 1349, 1351, (ii) the District of Columbia Anti-Deficiency Act, D.C. Official Code §§ 47-355.01-355.08 (2001), (iii) D.C. Official Code § 47-105 (2001), and (iv) D.C. Official Code § 1-204.46 (2006 Supp.), as the foregoing statutes may be amended from time to time, regardless of whether a particular obligation has been expressly so conditioned.

VII. COMPLIANCE AND MONITORING

As this MOU is funded by District of Columbia funds, DPW will be subject to scheduled and unscheduled monitoring reviews to ensure compliance with all applicable requirements.

VIII. RECORDS AND REPORTS

DPW shall maintain records and receipts for the expenditure of all funds provided for a period of no less than three years from the date of expiration or termination of the MOU and, upon the District of Columbia's request, make these documents available for inspection by duly authorized representatives of the DDOE and other officials as may be specified by the District of Columbia at its sole discretion.

IX. CONFIDENTIAL INFORMATION

The Parties to this MOU will use, restrict, safeguard and dispose of all information related to services provided by this MOU, in accordance with all relevant federal and local statutes, regulations, and policies. Information received by either Party in the performance of responsibilities associated with the performance of this MOU shall remain the property of the buyer agency.

X. TERMINATION

Either Party may terminate this MOU in whole or in part by giving 30 calendar days advance written notice to the other Party.

XI. SPECIAL PROVISIONS FOR TERMINATION OF THE MOU

DPW and DDOE may terminate this MOU in whole or in part by giving ten (10) calendar days advance written notice to the other party on the following grounds:

- Lack of funding;
- Changes in applicable law;
- Changes in the structure or nature of the program;
- Elimination of the program or service;
- Failure of either party to follow District laws, rules, or regulations; or
- Failure of either party to follow the terms of this MOU.

XII. NOTICE

The following individuals are the contact points for each Party under this MOU:

Hallie Clemm
Department of Public Works
2000 14th Street, NW, 6th Floor
Washington, DC 20009
Phone 202- 645-5141
hallie.clemm@dc.gov

Jeffrey Seltzer, P.E.
Stormwater Administrator
District Department of Environment
1200 First Street, NE
Washington, DC 20002
Phone 202-535-1603
jeffrey.seltzer@dc.gov

XIII. MODIFICATIONS

The terms and conditions of this MOU may be modified only upon prior written agreement by the Parties.

XIV. MISCELLANEOUS

The Parties shall comply with all applicable laws, rules and regulations whether now in force or hereafter enacted or promulgated.

IN WITNESS WHEREOF, the Parties hereto have executed this MOU as follows:

DISTRICT DEPARTMENT OF THE ENVIRONMENT

Date: 2.25.11

Christophe A.G. Tulou
Director

Date 2-22-11

Kimberly Katzenbarger, Esq.
Acting General Counsel

DEPARTMENT OF PUBLIC WORKS

Date: 3-4-2011

William O. Howland Jr., Director

MEMORANDUM OF UNDERSTANDING
BETWEEN
THE DISTRICT DEPARTMENT OF THE ENVIRONMENT
AND
THE DISTRICT DEPARTMENT OF PUBLIC WORKS
REGARDING MS4 STORMWATER PERMIT FISCAL ADMINISTRATION
AMENDMENT # 4

The MOU between DPW and DDOE, dated August 1, 2007, as amended on July 28, 2010, is amended to specify the amount of funds to be transferred to DPW from the FY 2011 MS4 enterprise fund, and to identify the activities to be conducted by DPW to comply with the MS4 Permit and the duration of the MOU.

A. **SECTION I: Delete Section I.6 on page 4 and replace it with the following text:**

For FY 2011, the Storm Water Administrator has approved the following fund to DPW, as follows:

DPW has submitted its budget for MS4 funds necessary for complying with DPW's obligations under the MS4 Permit for FY 2011. Total cost for services under this MOU shall not exceed five hundred ninety thousand dollars ($590,000). Funding for the services shall not exceed the actual cost of the goods or services, based on the actual cost spent by DPW.

Reimbursement shall only be approved for the activities listed below. The total amount shall be used to conduct the following activities in the priority indicated below:

Activity	Amount	Priority
Hazardous waste collection from permanent DPW drop-off facility (Fort Totten)	325,000	1
Public Education (leaf collection brochures and new sweeper route advertising). All brochures shall include the DDOE logo.	75,000	2
Operation and maintenance of MS4 regenerative air sweepers	125,000	3
Pollution Prevention -Conduct maintenance on oil and water separator for truck wash located at DPW Fort Totten facility. -Upgrade truck wash at Fort Totten.	65,000	4
Total Amount	590,000	

B. **SECTION III: Delete Section III.1 on page 5, and replace it with the following text:**

This MOU shall be effective until September 30, 2011.

C. **All other provisions of the MOU shall remain the same.**

DISTRICT DEPARTMENT OF THE ENVIRONMENT

2.24.11

Christophe A.G. Tulou, Director Date

2-22-11

Kimberly Katzenbarger, Esq., Acting General Counsel Date

DISTRICT DEPARTMENT OF PUBLIC WORKS

3-4-2011

William O. Howland, Jr., Director Date

MEMORANDUM OF UNDERSTANDING
BETWEEN
THE DISTRICT DEPARTMENT OF THE ENVIRONMENT
THE DISTRICT DEPARTMENT OF PUBLIC WORKS
THE DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
AND
DEPARTMENT OF TRANSPORTATION
REGARDING MS4 STORMWATER PERMIT FISCAL ADMINISTRATION

THIS MEMORANDUM OF UNDERSTANDING (MOU) is entered into this 1st day of August 2007, by and between the District Department of the Environment (DDOE) and the District Department of Transportation (DDOT), the D.C. Water and Sewer Authority (WASA), and the Department of Public Works (DPW) to administer finances and reimbursements from the Storm Water Permit Compliance Enterprise Fund for activities conducted to reduce pollutants to the District of Columbia, under the municipal separate storm sewer system (MS4) National Pollution Discharge Elimination System (NPDES) Permit (MS4 Permit).

WHEREAS, storm water discharges from the municipal separate storm sewer system (MS4) are authorized by the National Pollution Discharge Elimination System (NPDES) Permit Number: DC0000221 issued to the District of Columbia as Permittee;

WHEREAS, on August 19, 2004, the Environmental Protection Agency (EPA) re-issued the District's MS4 Permit Number: DC0000221 to authorize storm water discharges to the District of Columbia as Permittee, for a five-year term;

WHEREAS, the MS4 Permit contains a compliance schedule which requires the District of Columbia to compile and submit information on pollution sources, significant changes in the identification of storm sewer system outfalls, and changes affecting the separate storm sewer system due to land use activities, population estimates, runoff characteristics, structural controls, reporting requirements and other matters as outlined in the MS4 Permit Implementation Plan, in order to reduce storm water pollution;

WHEREAS, the MS4 Permit outlines additional activities to be undertaken by the District;

WHEREAS, the above named agencies have been assigned activities in the MS4 Implementation Plan;

WHEREAS, the MS4 Task Force has been established with representatives from DDOE, DDOT, DPW, WASA to manage the activities required in the MS4 Permit, pursuant to the "Storm Water Permit Compliance Amendment Act of 2000"; D.C. Official Code § 34-2202.06a;

WHEREAS, the Director of DDOE, or his designee, was made the Storm Water Administrator with primary responsibility for heading the Storm Water Administration, pursuant to the Establishment of the District Department of the Environment Act of 2005, D.C. Official Code § 8-151.03(b)(2);

WHEREAS, the storm water management activities in the Implementation Plan are supported by fees collected by WASA in a Storm Water Compliance Enterprise Fund and provided to DDOE for the Storm Water Administrator to certify the sufficiency of the MS4 Permit budget requests;

WHEREAS, the parties acknowledge that it may be necessary for some or all parties to take action to amend, program, reprogram or supplement their respective budgets in order to lawfully undertake activities required by the MS4 permit and wish to set forth how these actions will be taken; and

WHEREAS, in the event that not all the projects can be funded, priority will be given to the projects that provide the most benefit in reducing storm water pollution.

NOW THEREFORE, in consideration of the promises mutually exchanged, the receipt and sufficiency of which are acknowledged by all, the parties agree to administer the Storm Water Permit Compliance Enterprise Fund (Storm Water Fund) as follows:

I. SCOPE OF SERVICES

1. Each agency, including DDOE, shall submit a proposed budget for the following fiscal year to the Storm Water Administrator by October 1 of each calendar year. Accordingly, as of this signing, each agency agrees to submit their proposed 2009 Fiscal Year Budget Request to the Storm Water Administrator by October 1, 2007. The Storm Water Administrator will use this information to program budget authority from the Storm Water Fund. Acceptance of this summary by the Storm Water Administrator does not constitute approval of the expenditure, but rather general agreement that activities of this type may be reimbursable from the Enterprise Fund.

2. Each agency, including DDOE, shall submit a detailed Storm Water Fund budget request to the Storm Water Administrator no later than six-months prior to the beginning of the fiscal year covered by that request. The Storm Water Administrator will review and approve budget requests prior to allocating funds in DDOE's annual budget for the expected reimbursement. For each activity included in the budget request the agency will detail:

   (a) A description of the activity to be funded;

   (b) MS4 Implementation Plan reference for the activity;

   (c) MS4 Permit section reference for the activity;

   (d) Explanation that this activity is above and beyond storm water activities carried out by the agency prior to April 19, 2000;

   (e) Cost-benefit discussion including which pollutants are targeted for reduction by this project/activity, estimated reduction per year to be achieved, and estimated cost/pound of pollutant removed over the life of the project/activity; and

   (f) A statement of whether the agency's proposed budget contains sufficient funds expressly dedicated to all MS4 Permit compliance activities.

3. The Storm Water Administrator may request additional information from the agency to justify the project/activity. Approval of the detailed budget request by the Storm Water Administrator is pre-approval for reimbursement for expenditures conducted by the agency for the approved project or activity.

4. The Storm Water Administrator shall review and approve all programmatic changes or modifications that might affect the estimated quantity of pollutants removed or the cost-benefit analysis of the project or activity.

5. In the event of a budget shortfall, the Storm Water Administrator shall allocate remaining funds giving priority to the projects that he or she determines would provide the most benefit in reducing storm water pollution. In the event that the Storm Water Administrator determines that the projected fiscal years revenues from the Storm Water Fund will be less than the anticipated costs of the Storm Water Administration, the Storm Water Administrator may request that DDOE, WASA, DDOT, and DPW make up the difference.

6. For FY 2007, the Storm Water Administrator shall administer the Storm Water Permit Compliance Enterprise Fund as follows:

Department of Public Works	$ 1,270,000
District Department of Transportation	$ 1,537,000
DC Water & Sewer Authority	$ 292,999
District Department of the Environment	$ 1,950,000

7. Each agency shall request reimbursement quarterly from the Storm Water Administrator for expenditures related only to complying with the MS4 permit. Reimbursement requests shall include:

   (a) Description of the activity performed;

   (b) Certification that all expenditures submitted for reimbursement are for direct MS4 permit compliance activities above and beyond storm water activities carried out by the agency prior to April 19, 2000;

   (c) Citation of the MS4 Permit section(s) reference for the activity;

   (d) Description of which pollutants were targeted for reduction by the project/activity; and

   (e) Copies of invoices and other applicable documentation demonstrating MS4 relevant work. Documentation to include invoices outlining storm water-related tasks completed, including description of task, hours incurred including date and time.

8. The Storm Water Administrator may request additional supporting documentation, as required, to evaluate the reimbursement request or to detail how the reimbursement request will address the overall agency Implementation Plan.

9. Reimbursements are subject to total approved budget limits as well as cash or revenues available in fund.

10. Requests approved by the DDOE will be submitted within five business days of approval by the Storm Water Administrator.

II. RESOLUTION OF DISPUTES

The Chief Financial Officer or the City Administrator shall resolve all disputes arising under this MOU.

III. EFFECTIVE DATE AND SPECIAL PROVISIONS FOR TERMINATION OF MOU

1. This MOU shall be effective as of August 1, 2007 through August 19, 2009, unless terminated in writing by the Parties prior to the expiration.

2. This MOU may be extended by agreement of all signatories.

3. DDOE may terminate this MOU on the following grounds:

    (a) Lack of local funding;

    (b) Changes in applicable law;

    (c) Changes in District or federal policy affecting these services;

    (d) Changes in the structure or nature of the MS4 Permit; and

    (e) Elimination of DDOE as the Storm Water Administrator or Storm Water Administration.

IV. COUNTERPARTS

This MOU may be executed in separate counterparts, each of which when so executed and delivered shall be an original, but all of which together shall constitute but one and the same instrument.

IN WITNESS WHEREOF, the parties hereto have signed this MOU as of the day and year written above.

George S. Hawkins, Acting Director, DDOE — Date 7/31/07

Emeka C. Moneme, Director, DDOT — Date

William O. Howland, Jr., Director, DPW — Date 8-27-2007

Jerry N. Johnson, General Manager, DCWASA — Date

GOVERNMENT OF THE DISTRICT OF COLUMBIA

District Department of the Environment

MEMORANDUM OF UNDERSTANDING
BETWEEN
THE DISTRICT DEPARTMENT OF THE ENVIRONMENT
AND
WATER AND SEWER AUTHORITY
REGARDING MS4 STORMWATER PERMIT FISCAL YEAR 2011
ADMINISTRATION
AMENDMENT #3

The Memorandum of Understanding ("MOU") between the District of Columbia Water and Sewer Authority ("WASA" now known as "DC Water") and the District of Columbia Department of the Environment ("DDOE"), dated July 25, 2008, is amended to specify the amount to be reimbursed by DDOE to DC Water from the FY 2011 MS4 budget, extend the duration of the MOU and specify the activities to be performed.

SECTION III(A) is amended to add new subsections 3 and 4, as follows:

3. For FY 2011, DC Water shall provide water quality catch basin maintenance services, including:

   (a) A list of dates for performance of maintenance on DDOE identified water quality catch basins located in the MS4 area will be submitted at the end of each fiscal year (the identification number (ID) will be included on the list);

   (b) Cleaning and maintaining of all water quality catch basins located within the MS4 area at least once during FY 2011, within the amount funded for this task as amended in Section III (B) (3):

      (i) Cleaning and maintenance shall be conducted in accordance with DDOE's standard operating procedure (Attachment B); and

      (ii) DC Water shall provide at least 72 hours notice to DDOE prior to performing the maintenance; and

   (c) Invoices for reimbursement for services, as required by Section VI(B)(2), which shall also include a report of the date of cleaning, the amount of sediment collected, and the identification number of each water quality catch basin.

4. DC Water shall participate in and support the District's MS4 Technical Working Group activities.

SECTION III (B)(3): Delete subsection 3 and replace it with the following language, and add subsection 9 as follows:

3. For FY 2011, the Stormwater Administrator shall make available Stormwater Permit Compliance Fund for the following activities to be undertaken by DC Water in the amounts indicated:

Project	Funded Amount
a) Water Quality Catch Basin Maintenance	$345,000
b) DC Water MS4 Technical Workgroup Staff Activities	$50,000
DC Water Total FY 2011 Funding	**$395,000**

9. The Stormwater Administrator shall provide a current list of all water quality catch basins located in the MS4 area to DC Water by October 1st of each year.

The remaining terms and conditions set out in the original MOU dated July 25, 2008 shall remain in full force and effect.

DISTRICT DEPARTMENT OF THE ENVIRONMENT

5-2-11
Christophe Tulou, Director Date

4-28-11
Kimberly Katzenbarger, Acting General Counsel Date

WATER AND SEWER AUTHORITY

5/6/11
George S. Hawkins, General Manager Date

5/6/11
Randy Hayman, General Counsel Date

5/6/11
Olu Adebo, Chief Financial Officer Date

Appendix B 2012 Memoranda of Understanding

GOVERNMENT OF THE DISTRICT OF COLUMBIA
District Department of the Environment

Office of the Director

July 10, 2012

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

Subject: FY 2012 MS4 Enterprise Fund Memorandum of Understanding

Dear Mr. Bellamy: Terry

Thank you for your continued support in working with DDOE in meeting the requirements of the NPDES Permit for the District's Municipal Separate Storm Sewer System (Permit # DC 0000221). Activities undertaken by DDOT play a vital role in improving water quality in the District.

Attached you will find a copy of the FY 2012 memorandum of understanding (MOU). This MOU will allow DDOE to provide funding to DDOT to undertake design and construction for several capital low impact development projects in the District's public right of way. These projects will be essential in ensuring pollutant loads from the District's separate storm sewer system will be reduced, helping to make us the nation's most sustainable city.

If you have any questions concerning the MOU please contact Mr. Jeffrey Seltzer, DDOE Stormwater Administrator, at (202)535-1603. Once again it is a pleasure working with you and your staff on important environmental initiatives. We look forward to continuing that relationship in the future.

Sincerely,

Christophe A.G. Tulou
Director

MEMORANDUM OF UNDERSTANDING
BETWEEN
THE DISTRICT DEPARTMENT OF THE ENVIRONMENT
AND
THE DISTRICT DEPARTMENT OF TRANSPORTATION
FOR FISCAL YEAR 2012 MS4 ENTERPRISE FUNDS

I. Table of Contents

II. INTRODUCTION

This Memorandum of Understanding ("MOU") is entered into by and between the District Department of the Environment ("DDOE") and the District Department of Transportation ("DDOT"), collectively referred to herein as the "Parties."

DDOE has requested the services of DDOT to design, construct, monitor and maintain several Low Impact Development ("LID") practices in the public right of way of the District of Columbia listed in Attachment A (individually called a "Project", and collectively called the "Projects"). DDOT requests funding assistance from the MS4 Stormwater Permit Compliance Enterprise Fund. Capital funding will solely be used for these Projects.

III. PROGRAM GOALS AND OBJECTIVES

The goal of this MOU is to improve water quality in the Anacostia, Rock Creek and Potomac Rivers for the benefit of District residents, visitors, wildlife and the environment.

The objectives of this MOU are to reduce stormwater pollutants from entering the local waters (i.e. rivers, streams, estuaries) of the District of Columbia as required under the current applicable US Environmental Protection Agency National Pollutant Discharge Elimination System ("NPDES") Permit for the District's municipal separate storm sewer system, (hereinafter "MS4 Permit"). The MS4 Permit obligates the District to install LID practices throughout the District to assist the District in meeting local surface water quality goals.

The strategies for implementing objectives for this MOU include DDOT serving as the service provider. DDOE will serve as the funder and as a technical consultant. DDOT will act in the role to design, construct, monitor, and maintain the Projects.

IV. SCOPE OF SERVICES

DDOE and DDOT do hereby agree to do the following below. The following are required in order to carry out the purposes of the MOU expeditiously and economically.

A. SUMMARY OF SERVICES

This is a summary of the services required of DDOT in this section:

1. Design, install, and maintain the Projects;
2. If required, obtain all applicable permits;
3. Monitor LID Installation;
4. Report on the progress of the Projects; and
5. Provide required technical and financial documentation to DDOE.

B. RESPONSIBILITIES OF DDOT

1. Service # 1: Design, construct, and/or maintain:

   a. DDOT shall provide plans to DDOE at each phase of the plan design process (e.g. 30%, 65%, 90% phases). DDOT will consult DDOE Stormwater Management Division for comment at each phase (e.g. 30%, 65% and 90% design phases) of the design deliverable process for each Project. DDOT must respond to DDOE comments before advancing the design process for each project. DDOT must share all design plans with other parties that DDOE requests to be involved (e.g. National Park Service).

b. Construct Projects funded through this MOU in accordance with the District of Columbia stormwater management rules, with the goal of designing all projects to retain 1.2" of runoff to the maximum extent practicable (MEP).

c. Inform DDOE sediment and erosion control inspectors on each construction schedule per each Project's stormwater management plan ("SWMP") requirements.

d. Manage construction and maintenance as indicated in the approved design and specifications;

e. If a modification of the design is needed during construction, DDOT will consult with DDOE for approval before moving forward with any change orders.

f. Manage the completion of construction documents and maintenance records;

g. Refine Project schedule, budget, and procurement documents and provide quarterly updates to DDOE on the status of each Project.

h. Manage all contracts in accordance with all relevant building codes, regulations, standards, guidelines and recommendations of the District of Columbia;

i. Conduct maintenance of all Projects as recommended by industry prescribed practices and in consultation with DDOE;

j. In the event of a budget shortfall DDOT may request additional MS4 funds from DDOE, or renegotiate the overall project scope with DDOE.

k. In the event of a DDOE stop work request, direct the work to be stopped as soon as practicable.

2. Service # 2: When permits are required:

a. Ensure that all applicable permits are obtained for construction and/or operation of the Projects; and

b. Manage and obtain all final inspections and sign-offs from applicable agencies, in accordance with permit requirements.

3. Service # 3: Monitoring of LID installation

a. Design monitoring studies at the Nannie Helen Burroughs Ave LID sites funded through this MOU as referenced in Attachment A, Project 1, in consultation with the DDOE Stormwater Management Division;

b. Develop and provide a quality assurance project plan ("QAPP") to the DDOE Stormwater Management and Water Quality Divisions for comment for any monitoring project funded by this MOU. DDOE Stormwater Management Division must approve the QAPP before the monitoring study is implemented;

c. Invite DDOE to all scheduled meetings with the monitoring contractor;

d. Provide interim draft and final monitoring deliverables to DDOE.

4. Service # 4: Access to Project Documentation. DDOT shall provide DDOE with access to the following documentation within two months of completion of each Project:

a. Construction management and as-built construction reports;

b. Financial documentation concerning transactions between DDOT and contractors;

c. Hard and electronic copies of technical plans, specifications, manuals, reports, and financial documentation; and

d. Whenever possible, provide the original format (like "doc", "xls", and AutoCAD) or the "print-to-pdf" electronic file, rather than a scan of paper output. When an electronic version is available, the paper copy can be eliminated.

C. RESPONSIBILITIES OF DDOE

1. DDOE must respond to DDOT within the following prescribed time periods for each of the following submittal types:
   a. DDOE will provide comments within two weeks of receiving sets of 30%, 65%, and 90% designs plans and specifications from DDOT;
   b. DDOE will provide comments within two weeks of receiving interim draft and final monitoring study designs and plans from DDOT;

c. DDOE will provide comments within five days to DDOT concerning construction inspection results;

d. DDOE will provide a response to DDOT within five days of receiving a request to modify designs or proposed change orders;

e. DDOE will provide comments within two weeks of receiving financial documentation from DDOT.

2. Advise which submissions can be made exclusively electronically, if any.

3. Provide DDOT with funding for the Projects listed in Attachment A through an Intra District Advance as specified in section VII of this MOU.

4. Provide DDOT with assistance in obtaining all necessary permits for the Projects.

V. DURATION OF MOU

A. The period of this MOU shall be from October 1, 2011, through September 30, 2014, unless terminated in writing by the Parties prior to the expiration.

B. The duration may be extended only in writing.

C. The extension of this MOU shall be subject to the availability of funds at the time.

VI. AUTHORITY FOR MOU

A. D.C. Official Code § 1-301.01 (k) (District agencies) (Repl. 2008 & Supp. 2011) authorizes the parties to enter into this MOU for orders placed with other departments, at actual cost.

B. DDOE is further authorized to enter into this MOU pursuant to:

1. The Water Pollution Control Act of 1984, effective March 16, 1985 (D.C. Law 5-188, as amended), D.C. Official Code §§ 8-103.01 *et seq.* (2008 Repl. & 2011 Supp.)), including: §8-103.13 (Mayor regulates construction bearing upon water quality);

2. The District Department of the Environment Establishment Act of 2005, effective February 15, 2006 (D.C. Law 16-51, §§101 *et seq.*, D.C. Official Code §§8-151.01 *et seq.* (2008 Repl. & 2011 Supp.)), as amended, including: D.C. Official Code §8-151.03 (establishment of DDOE and consolidation of environmental functions); § 8-151.03(b)(2) (stormwater administration, including the monitoring and coordinating the activities of all District agencies that are required to maintain compliance with the storm water permit, receiving and expending funds from the Storm Water

Permit Compliance Enterprise Fund); §8-151.07 (Director guides and enforces environmental services and federal actions, promulgates and enforces rules and programs, liaises with other agencies);

3. The Comprehensive Stormwater Management Enhancement Amendment Act of 2008, effective March 25, 2009 (D.C. Law 17-371, §2(b), as amended), D.C. Official Code §§ 8-152.01 *et seq.* (2008 Repl. & 2011 Supp.)), including: D.C. Official Code §8-152.01 (2012) (monitor, coordinate and secure information from District agencies required to comply with the Stormwater Permit and administer the stormwater program within DDOE); §8-152.03 (2012) (stormwater fee discount program); §8-152.04 (2012) (establish an enterprise grant fund program);

4. Mayor's Order 2006-61, dated June 14, 2006 (delegation and transfer of authority to DDOE Director); and

5. 21 DCMR 553-56 (stormwater fee rules).

C. DDOT is further authorized to enter into this MOU pursuant to D.C. Official Code § 50-921.04(1)(B) (Repl. 2009 & Supp. 2011).

VII. INTRA-DISTRICT FUNDING PROVISIONS

A. COST OF SERVICES

1. Total cost for services under this MOU shall not exceed four million three hundred seventy two thousand seven hundred fifty one dollars and sixty cents ($4,372,751.60), the total costs for all Project items listed in Attachment A, unless DDOE specifically authorizes a change in funding in writing.

2. Overhead costs applied to DDOT personnel shall not be funded by this MOU.

3. Funding for the Projects listed in Attachment A shall not exceed the actual cost of the goods or services.

4. Funding for each Project item shall not exceed the cost specified in Attachment A, unless DDOE specifically authorizes a change in writing.

B. PAYMENT.

1. DDOE shall pay DDOT for goods and services detailed in this MOU through an Intra-District Advance to DDOT for the amount of $1,701,289.25. The difference between this figure and the amount in Section VII.A.1 is rollover funds from previous fiscal year(s).

2. DDOE shall make the transfer after:

   a. The Parties sign the MOU; and

   b. The District Office of the Chief Financial Officer ("OCFO") approves the transfer.

3. DDOT shall submit a reconciliation every six (6) months after the commencement of this MOU, which details the amounts charged to the Projects' budget for that six (6) month period, with each reconciliation, to include:

   a. Description of the activity that was performed;

   b. List of materials and their costs;

   c. DDOT staff costs; and

   d. Copies of invoices, receipts, or other documentation to detail amounts spent on each Project during each six (6) month period.

4. Payment to DDOT shall not exceed the total amount of this MOU.

5. If funds remain upon the termination of this MOU, then those funds shall be returned to DDOE, unless incorporated into the scope of services in another MOU executed by both Parties.

6. DDOT must return funds at termination of the MOU at the later of:

   a. The date when all fiscal reconciliation of DDOE funds has been completed; or

   b. Approximately four months from the date of notice of the termination, specifically 112 days (16 weeks).

VIII. DISPUTE RESOLUTION

DDOE's Director and DDOT's Director, or their designees, shall resolve all disputes under this MOU.

IX. COMPLIANCE AND MONITORING

If this MOU is funded by District of Columbia funds in whole or in part, DDOT will be subject to scheduled and unscheduled monitoring reviews by the District of Columbia to ensure compliance with all applicable requirements. If funding is federal, in whole or in

part, DDOT will be subject to monitoring reviews by the federal government

X. RECORDS AND REPORTS

If this MOU is funded by District of Columbia funds, DDOT and its contractor/grantee shall maintain records and receipts for the expenditures of all funds provided for a period of not less than three (3) years from the date of expiration or termination of the Projects. In that case, DDOT shall arrange with its contractors to make these documents immediately available for inspection by request of representatives of DDOE or the District. If funding is federal, in whole or in part, documents must be similarly available to representatives of the federal government.

XI. SPECIAL PROVISIONS FOR TERMINATION OF THE MOU

DDOE or DDOT may terminate this MOU in whole or in part by giving 28 days advance written notice to the other party on one of the following grounds:

A. Lack of funding;

B. Changes in applicable law;

C. Changes in the structure or nature of the program;

D. Elimination of the program or service;

E. Failure of either Party to follow Federal or District laws, rules, or regulations; or

F. Failure of either Party to follow the terms of this MOU.

XII. NOTICE

The following individuals are the official contacts for each Party under the MOU:

For DDOE:

Mr. Jeffrey Seltzer, P.E.
Associate Director
Stormwater Management Division
District Department of the Environment
1200 First Street, NE, 5th Floor
Washington, DC 20002
Phone 202-535-1603
Fax 202-535-1364
Email jeffrey.seltzer@dc.gov

For the DDOT:

Mr. Ravindra Ganvir, P.E.
Deputy Chief Engineer
Infrastructure Project Management Administration
District Department of Transportation
55 M Street, SE, Suite 400
Washington, DC 20003
Phone 202-671-4589
Email ravindra.ganvir@dc.gov

XIII. MODIFICATIONS

The terms and conditions of this MOU may be modified only upon prior written agreement by the Parties.

XIV. ANTI DEFICIENCY CONSIDERATIONS

The Parties acknowledge and agree that their respective obligations to fulfill financial obligations of any kind pursuant to any and all provisions of this MOU, or any subsequent agreement entered into by the parties pursuant to this MOU, are and shall remain subject to the provisions of (i) the federal Anti-Deficiency Act, 31 U.S.C. §§1341, 1342, 1349, 1351, (ii) the District of Columbia Anti-Deficiency Act, D.C. Official Code §§ 47-355.01-355.08 (2001), (iii) D.C. Official Code § 47-105 (2001), and (iv) D.C. Official Code § 1-204.46 (2006 Supp.), as the foregoing statutes may be amended from time to time, regardless of whether a particular obligation has been expressly so conditioned.

XV. MISCELLANEOUS

The Parties shall comply with all applicable laws, rules and regulations whether now in force or hereafter enacted or promulgated.

IN WITNESS WHEREOF, the Parties hereto have executed this MOU as follows:

DISTRICT DEPARTMENT OF THE ENVIRONMENT

Christophe A.G. Tulou
Director

7-10-12
Date

Kimberly Katzenberger
General Counsel, for legal sufficiency

7-6-12
Date

DISTRICT DEPARTMENT OF TRANSPORTATION

Terry Bellamy
Director

June 27, 2012
Date

ATTACHMENT A
The Projects

This MOU addresses the following activities.

By signing this MOU, DDOE and DDOT have agreed to the cost of Project items listed below. DDOT will implement each project item in accordance with terms outlined in the MOU above.

COST OF SERVICES

	Project	Type of Device, Practice or Service	Estimated Total Area Retrofitted (square feet)	Amount (Dollars)
1	Nannie Helen Burroughs Ave NE	Monitoring to assess the effects of LID on local water quality	N/A	$260,000.00
2	Design of LID Retrofit Projects	Design of LID pilot projects, including streetside bioretention and vegetated swales at Fitch St near Division Ave NE and East Beach Dr NW; Traffic calming stormwater bumpouts at Erie St & Morris Rd SE and Ft Davis SE; and 3000 linear feet of roadway runoff directed to grass paving system at East Beach Dr NW	248,725	$161,994.36
3	Construction Management of LID Projects	Construction management of LID Retrofit Project, RiverSmart Washington, and Green Alleys at Quesada St and Q St.. Includes funding for project manager, inspectors, outreach and landscape inspection.	N/A	$794, 193.16
4	Construction of Green Alley	Retrofit the full width 1 alley with permeable pavers. Site is located in Ward 3 (Ashley Terrace)	8,000	104,459.13
5	Construction of Green Alley	Retrofit three alley segments with permeable concrete pavement (one segment full width and two with grass in center third). The site is in Ward 4 at Quesada and 33rd Streets NW.	19,178	$420,935.00
6	Design funds for RiverSmart DC sewershed retrofit along Broad Branch Rd NW	Use the Green Build Out Model to retrofit a small sewershed with green infrastructure. Project is multi-agency, public-non-profit partnership receiving funds from NFWF Targeted Watershed Grant and WASA for projects on public and private lands; DDOT will construct permeable pavement, bioretention, Bioswale, and curb bumpouts where feasible in selected locations.	47,771	$305,221.00

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	Project	Type of Device, Practice or Service	Estimated Total Area Retrofitted (square feet)	Amount (Dollars)
7	Construction of RiverSmart DC sewershed retrofit along Broad Branch Rd NW	Using the designs from the implementation phase to retrofit two small sewersheds with green infrastructure in order to test the Green Build Out Model and help determine the maximum extent practicable that LID can be utilized to control runoff from roadways and sidewalks.		$694,779.00
8	Design LID retrofits along Oxon Run Trail and nearby roadways	Design LID retrofits along trail in Oxon Run Park and adjacent roadways from South Capitol St to Valley Ave and 13 St SE.	N/A	$253, 515.45
9	Tree plantings	Fund DDOT Urban Forestry Administration to plant trees in the MS4 area in locations determined by DDOT.	N/A	$300,000.00
10	Maintenance of new tree plantings	Water newly planted trees 8 times during the first summer following planting.	N/A	$40,000.00
11	LID Maintenance	Regular maintenance of LID features in the public right of way for one year	N/A	$108,495.00
12	Funding for DDOT personnel resources	Funding for DDOT to supply staff for project support. Includes (1) Team Lead, (2) project managers and (1) construction inspector (equivalent 3.1 FTE) responsible for reviewing private and public ROW projects. Staff will help assure appropriate design and inclusion of storm water quality features such as LID and water quality catch basins. In addition, DDOT staff will evaluate public space for potential LID projects, assist DDOT facilities in meeting NPDES permit requirements, manage consultants and contractors for design and oversee construction and maintenance of project sites.	N/A	$261,650.00
13	Funding for DDOT personnel resources	DDOT Staff Leave	N/A	$62,796.00
14	Funding for DDOT personnel resources	DDOT Staff Benefits	N/A	$49,713.50

	Project	Type of Device, Practice or Service	Estimated Total Area Retrofitted (square feet)	Amount (Dollars)
15	Funding for DDOT Personnel Resources	Contract Staff position will provide oversight and review of DDOT LID Design & Construction projects. Position is for 1 year.	N/A	$120,000.00
16	Training	Training for DDOT staff or contractors in LID planning, design, construction, or maintenance.	N/A	$40,000.00
17	DDOT LID Standards Guidebook	Fund a change order to existing contract so that Draft DDOT LID Standards Guide can be updated	N/A	$50,000
18	Construction of Green Alley	Funds will help cover construction of a green alley that will help to manage stormwater and improve pedestrian access at Q St., Q Pl, and 45th St NW.	5,000	$105,000.00
19	Design of LID along Fulton St NW and Normanstone Dr NW	Funds would be for design of several bioretention cells along Fulton St NW and Normanstone Dr NW.	N/A	$240,000.00
		Estimated Total Area Treated by Construction Projects (square feet)	328,674	
		Total Funding for Projects in FY12	$4,372,751.60	
		Total Funding Carried Over from FY11	$2,671,462.35	
		Total Funding to be Transferred in FY12	$1,701,289.25	

GOVERNMENT OF THE DISTRICT OF COLUMBIA
District Department of the Environment

Office of the Director

May 10, 2012

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

Subject: FY 2012 MS4 Enterprise Fund Memorandum of Understanding

Dear Mr. Howland: Bill

Thank you for your continued support in working with DDOE in meeting the requirements of the NPDES Permit for the District's Separate Storm Sewer System (Permit # DC 0000221). Activities undertaken by DPW play a vital role in improving water quality in the District.

Attached you will find a copy of the FY 2011 memorandum of understanding (MOU). This MOU will allow DDOE to provide funding to DPW to assist in implementation of street sweeping, collection and disposal of household hazardous waste and valuable public education activities. All of these activities are essential in ensuring pollutant loads from the District's separate storm sewer system will be reduced.

If you have any questions concerning the MOU please contact Mr. Jeffrey Seltzer, DDOE Stormwater Administrator, at (202)535-1603. Once again it is a pleasure working with you and your staff on important environmental initiatives. We look forward to continuing that relationship in the future.

Sincerely,

Christophe A.G. Tulou
Director

MEMORANDUM OF UNDERSTANDING
BETWEEN
THE DISTRICT DEPARTMENT OF THE ENVIRONMENT
AND
THE DISTRICT DEPARTMENT OF PUBLIC WORKS
REGARDING MS4 STORMWATER PERMIT FISCAL ADMINISTRATION
AMENDMENT # 5

The MOU between DPW and DDOE, dated August 1, 2007, as amended on February 24, 2012, is amended to specify the amount of funds to be transferred to DPW from the FY 2012 MS4 enterprise fund, and to identify the activities to be conducted by DPW to comply with the MS4 Permit and the duration of the MOU.

A. **SECTION I: Delete Section I.6 on page 4 and replace it with the following text:**

For FY 2012, the Storm Water Administrator has approved the following fund to DPW, as follows:

DPW has submitted its budget for MS4 funds necessary for complying with DPW's obligations under the MS4 Permit for FY 2012. Total cost for services under this MOU shall not exceed four hundred ninety thousand dollars ($490,000). Funding for the services shall not exceed the actual cost of the goods or services, based on the actual cost spent by DPW.

Reimbursement shall only be approved for the activities listed below. The total amount shall be used to conduct the following activities in the priority indicated below:

Activity	Amount	Priority
Hazardous waste collection from permanent DPW drop-off facility (Fort Totten)	260,000	1
Public Education (leaf collection brochures and new sweeper route advertising).	30,000	2
Operation and maintenance of MS4 regenerative air sweepers	200,000	3
Total Amount	490,000	

B. **SECTION III: Delete Section III.1 on page 5, and replace it with the following text:**

This MOU shall be effective until September 30, 2012.

C. **All other provisions of the MOU shall remain the same.**

DISTRICT DEPARTMENT OF THE ENVIRONMENT

5.15.12

Christophe A.G. Tulou, Esq., Director — Date

Kimberly Katzenbarger, General Counsel — Date

DISTRICT DEPARTMENT OF PUBLIC WORKS

4-19-2012

William O. Howland, Jr., Director — Date

copy

MEMORANDUM OF UNDERSTANDING
BETWEEN
THE DISTRICT DEPARTMENT OF THE ENVIRONMENT
THE DISTRICT DEPARTMENT OF PUBLIC WORKS
THE DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
AND
DEPARTMENT OF TRANSPORTATION
REGARDING MS4 STORMWATER PERMIT FISCAL ADMINISTRATION

THIS MEMORANDUM OF UNDERSTANDING (MOU) is entered into this 1st day of August 2007, by and between the District Department of the Environment (DDOE) and the District Department of Transportation (DDOT), the D.C. Water and Sewer Authority (WASA), and the Department of Public Works (DPW) to administer finances and reimbursements from the Storm Water Permit Compliance Enterprise Fund for activities conducted to reduce pollutants to the District of Columbia, under the municipal separate storm sewer system (MS4) National Pollution Discharge Elimination System (NPDES) Permit (MS4 Permit).

WHEREAS, storm water discharges from the municipal separate storm sewer system (MS4) are authorized by the National Pollution Discharge Elimination System (NPDES) Permit Number: DC0000221 issued to the District of Columbia as Permittee;

WHEREAS, on August 19, 2004, the Environmental Protection Agency (EPA) re-issued the District's MS4 Permit Number: DC0000221 to authorize storm water discharges to the District of Columbia as Permittee, for a five-year term;

WHEREAS, the MS4 Permit contains a compliance schedule which requires the District of Columbia to compile and submit information on pollution sources, significant changes in the identification of storm sewer system outfalls, and changes affecting the separate storm sewer system due to land use activities, population estimates, runoff characteristics, structural controls, reporting requirements and other matters as outlined in the MS4 Permit Implementation Plan, in order to reduce storm water pollution;

WHEREAS, the MS4 Permit outlines additional activities to be undertaken by the District;

WHEREAS, the above named agencies have been assigned activities in the MS4 Implementation Plan;

WHEREAS, the MS4 Task Force has been established with representatives from DDOE, DDOT, DPW, WASA to manage the activities required in the MS4 Permit, pursuant to the "Storm Water Permit Compliance Amendment Act of 2000"; D.C. Official Code § 34-2202.06a;

WHEREAS, the Director of DDOE, or his designee, was made the Storm Water Administrator with primary responsibility for heading the Storm Water Administration, pursuant to the Establishment of the District Department of the Environment Act of 2005, D.C. Official Code § 8-151.03(b)(2);

WHEREAS, the storm water management activities in the Implementation Plan are supported by fees collected by WASA in a Storm Water Compliance Enterprise Fund and provided to DDOE for the Storm Water Administrator to certify the sufficiency of the MS4 Permit budget requests;

WHEREAS, the parties acknowledge that it may be necessary for some or all parties to take action to amend, program, reprogram or supplement their respective budgets in order to lawfully undertake activities required by the MS4 permit and wish to set forth how these actions will be taken; and

WHEREAS, in the event that not all the projects can be funded, priority will be given to the projects that provide the most benefit in reducing storm water pollution.

NOW THEREFORE, in consideration of the promises mutually exchanged, the receipt and sufficiency of which are acknowledged by all, the parties agree to administer the Storm Water Permit Compliance Enterprise Fund (Storm Water Fund) as follows:

I. SCOPE OF SERVICES

1. Each agency, including DDOE, shall submit a proposed budget for the following fiscal year to the Storm Water Administrator by October 1 of each calendar year. Accordingly, as of this signing, each agency agrees to submit their proposed 2009 Fiscal Year Budget Request to the Storm Water Administrator by October 1, 2007. The Storm Water Administrator will use this information to program budget authority from the Storm Water Fund. Acceptance of this summary by the Storm Water Administrator does not constitute approval of the expenditure, but rather general agreement that activities of this type may be reimbursable from the Enterprise Fund.

2. Each agency, including DDOE, shall submit a detailed Storm Water Fund budget request to the Storm Water Administrator no later than six-months prior to the beginning of the fiscal year covered by that request. The Storm Water Administrator will review and approve budget requests prior to allocating funds in DDOE's annual budget for the expected reimbursement. For each activity included in the budget request the agency will detail:

   (a) A description of the activity to be funded;

   (b) MS4 Implementation Plan reference for the activity;

   (c) MS4 Permit section reference for the activity;

   (d) Explanation that this activity is above and beyond storm water activities carried out by the agency prior to April 19, 2000;

   (e) Cost-benefit discussion including which pollutants are targeted for reduction by this project/activity, estimated reduction per year to be achieved, and estimated cost/pound of pollutant removed over the life of the project/activity; and

   (f) A statement of whether the agency's proposed budget contains sufficient funds expressly dedicated to all MS4 Permit compliance activities.

3. The Storm Water Administrator may request additional information from the agency to justify the project/activity. Approval of the detailed budget request by the Storm Water Administrator is pre-approval for reimbursement for expenditures conducted by the agency for the approved project or activity.

4. The Storm Water Administrator shall review and approve all programmatic changes or modifications that might affect the estimated quantity of pollutants removed or the cost-benefit analysis of the project or activity.

5. In the event of a budget shortfall, the Storm Water Administrator shall allocate remaining funds giving priority to the projects that he or she determines would provide the most benefit in reducing storm water pollution. In the event that the Storm Water Administrator determines that the projected fiscal years revenues from the Storm Water Fund will be less than the anticipated costs of the Storm Water Administration, the Storm Water Administrator may request that DDOE, WASA, DDOT, and DPW make up the difference.

6. For FY 2007, the Storm Water Administrator shall administer the Storm Water Permit Compliance Enterprise Fund as follows:

Department of Public Works	$ 1,270,000
District Department of Transportation	$ 1,537,000
DC Water & Sewer Authority	$ 292,999
District Department of the Environment	$ 1,950,000

7. Each agency shall request reimbursement quarterly from the Storm Water Administrator for expenditures related only to complying with the MS4 permit. Reimbursement requests shall include:

   (a) Description of the activity performed;

   (b) Certification that all expenditures submitted for reimbursement are for direct MS4 permit compliance activities above and beyond storm water activities carried out by the agency prior to April 19, 2000;

   (c) Citation of the MS4 Permit section(s) reference for the activity;

   (d) Description of which pollutants were targeted for reduction by the project/activity; and

   (e) Copies of invoices and other applicable documentation demonstrating MS4 relevant work. Documentation to include invoices outlining storm water-related tasks completed, including description of task, hours incurred including date and time.

8. The Storm Water Administrator may request additional supporting documentation, as required, to evaluate the reimbursement request or to detail how the reimbursement request will address the overall agency Implementation Plan.

9. Reimbursements are subject to total approved budget limits as well as cash or revenues available in fund.

10. Requests approved by the DDOE will be submitted within five business days of approval by the Storm Water Administrator.

II. RESOLUTION OF DISPUTES

The Chief Financial Officer or the City Administrator shall resolve all disputes arising under this MOU.

III. EFFECTIVE DATE AND SPECIAL PROVISIONS FOR TERMINATION OF MOU

1. This MOU shall be effective as of August 1, 2007 through August 19, 2009, unless terminated in writing by the Parties prior to the expiration.

2. This MOU may be extended by agreement of all signatories.

3. DDOE may terminate this MOU on the following grounds:

   (a) Lack of local funding;

   (b) Changes in applicable law;

   (c) Changes in District or federal policy affecting these services;

   (d) Changes in the structure or nature of the MS4 Permit; and

   (e) Elimination of DDOE as the Storm Water Administrator or Storm Water Administration.

IV. COUNTERPARTS

This MOU may be executed in separate counterparts, each of which when so executed and delivered shall be an original, but all of which together shall constitute but one and the same instrument.

IN WITNESS WHEREOF, the parties hereto have signed this MOU as of the day and year written above.

George S. Hawkins, Acting Director, DDOE — Date 7/31/07

Emeka C. Moneme, Director, DDOT — Date

William O. Howland, Jr., Director, DPW — Date 8-27-2007

Jerry N. Johnson, General Manager, DCWASA — Date

MEMORANDUM OF UNDERSTANDING
BETWEEN
THE DISTRICT DEPARTMENT OF THE ENVIRONMENT
AND
THE DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

Table of Contents

I. INTRODUCTION AND PURPOSE

This Memorandum of Understanding ("MOU") is entered into by and between the District Department of the Environment ("DDOE") and the District of Columbia Water and Sewer Authority ("DC Water") collectively referred to herein as the "Parties."

DDOE has requested the services of DC Water to clean and maintain water quality catch basins, develop an outfall inspection and repair schedule, and develop an optimized catch basin cleaning and maintenance plan, as described in Attachments A, B, C, and D (each called a "Project," and collectively called the "Projects"). DC Water requests funding assistance from the MS4 Enterprise Fund. Operating funding will solely be used for these projects.

II. PROGRAM GOALS AND OBJECTIVES

The goal of this MOU is to improve water quality in the Anacostia and Potomac Rivers for the benefit of District residents, visitors, wildlife and the environment.

The objectives of this MOU are to reduce stormwater pollutants entering the local waters (i.e., rivers, streams, estuaries) of the District of Columbia as required under the current applicable US

Environmental Protection Agency National Pollutant Discharge Elimination System ("NPDES") Permit for the District's municipal separate storm sewer system, (hereinafter "MS4 Permit"). The MS4 Permit obligates the District to clean and maintain catch basins; develop an optimal catch basin inspection, cleaning, and repair plan; and develop a MS4 outfall inspection and repair schedule to assist the District in meeting local surface water quality goals.

The strategies for implementing objectives for this MOU include DC Water serving as the service provider for the services identified in Section III.B.1. of this MOU. DDOE will serve as the funder and a technical consultant. DC Water will implement the Projects.

III. SCOPE OF SERVICES

DDOE and DC Water agree to do the following. The following are required in order to carry out the purposes of the MOU expeditiously and economically. Subsection A summarizes the services required of the parties, which are described in detail in subsection B:

A. Summary of Services

1. Services of DC Water

a. Provide water quality catch basin maintenance services and reports.
b. Develop an optimal catch basin inspection, cleaning, and repair plan.
c. Develop stormwater outfall repair scope and schedule.
d. Participate in and support the District's MS4 Technical Working Group activities.

2. Services of DDOE

a. Provide updated list of water quality catch basins.
b. Provide funding.
c. Act as technical consultants.
d. Timely review reports and other transmittals.
e. Coordinate with DC Water on the type and location of water quality catch basins installed within the MS4 area to ensure standardization to the maximum extent possible.

B. Services of the parties

1. Services of DC Water:

a. Service #1: Provide water quality catch basin maintenance services and reports.

(1) DC Water shall clean and inspect each DDOE-identified water quality catch basin within the MS4 area at least once during each fiscal year. Cleaning and inspection shall be conducted in accordance with DDOE's standard operating procedure provided in Attachment B. DC Water shall provide at least 72 hours notice to DDOE prior to performing these services.

(2) Within one month of the end of the fiscal year DC Water shall provide a report of dates of cleaning and inspection and amount of sediment collected from each water quality catch basin cleaned and maintained under this MOU.

b. Service #2: Develop an optimal catch basin inspection, cleaning, and repair plan.

(1) DC Water shall develop a plan for optimal catch basin inspection, cleaning and repairs in accordance with the Project Scope of Work provided in Attachment C.

(2) DC Water shall provide DDOE with monthly updates of project status and budget.

c. Service #3: Develop stormwater outfall repair scope and schedule.

(1) DC Water shall develop a plan for stormwater outfall inspection and an outfall repair schedule in accordance with the Project Scope of Work provided in Attachment D.

(2) DC Water shall provide DDOE with monthly updates of project status and budget, by the 14th day of each month.

d. Service #4: DC Water shall participate in and support the District's MS4 Technical Working Group activities.

2. Services of DDOE

a. Service # 1: Provide updated list of water quality catch basins: DDOE shall provide DC Water with an updated list of water quality catch basins located in the MS4 area by October 1st of each year.

b. Service #2: Provide funding: DDOE shall provide DC Water with funding for the Projects listed in Attachment A, as stated in Part VI.

c. Service #3: Act as technical consultants.

d. Service #4: Timely review reports and other transmittals.

e. Service #5: Coordinate with DC Water on water quality catch basins: DDOE shall coordinate with DC Water on installation of new water quality catch basins, specifically with respect to the number and type of water quality catch basins to be installed, as well as where, when, and how the installations will take place. DDOE shall also coordinate with DC Water regarding the purchase of truck(s) and related equipment in advance of the transition to DC Water of the responsibility for funding water quality catch basin cleaning and inspection in FY 15.

IV. DURATION OF MOU

A. The period of this MOU shall be from October 1, 2011, through September 30, 2013, unless terminated in writing by a Party prior to the expiration.

B. The duration may be extended only in writing.

C. The extension of this MOU shall be subject to the availability of funds at the time.

D. The Parties contemplate extending this MOU.

V. AUTHORITY FOR MOU

A. D.C. Official Code § 1-301.01(k) (District agencies) (2012) authorizes the parties to enter into this MOU for orders placed with other departments, at actual cost.

B. DDOE is further authorized to enter into this MOU pursuant to:

1. The Water Pollution Control Act of 1984, effective March 16, 1985 (D.C. Law 5-188, as amended), D.C. Official Code §8-103.01 *et seq.*, including: §8-103.13 (2012) (Mayor regulates construction bearing upon water quality);

2. The District Department of the Environment Establishment Act of 2005, effective February 15, 2006 (D.C. Law 16-51, §§101 *et seq*, as amended), including: D.C. Official Code §8-151.03 (2012) (establishment of DDOE and consolidation of environmental functions); § 8-151.03(b)(2) (stormwater administration, including the monitoring and coordinating the activities of all District agencies that are required to maintain compliance with the storm water permit, receiving and expending funds from the Storm Water Permit Compliance Enterprise Fund); §8-151.07 (2011 Supp.) (Director guides and enforces environmental services and federal actions, promulgates and enforces rules and programs, liaises with other agencies);

3. The Comprehensive Stormwater Management Enhancement Amendment Act of 2008, effective March 25, 2009 (D.C. Law 17-371, §2(b), as amended), including: D.C. Official Code §8-152.01 (2012) (monitor, coordinate and secure information from District agencies required to comply with the Stormwater Permit and administer the stormwater program within DDOE); §8-152.03 (2012) (stormwater fee discount program); §8-152.04 (2012) (establish an enterprise grant fund program);

4. Mayor's Order 2006-61, dated June 14, 2006 (delegation and transfer of authority to DDOE Director); and

5. 21 DCMR 553-56 (stormwater fee rules).

VI. FUNDING PROVISIONS

A. COST OF SERVICES, if any

1. Unless DDOE specifically authorizes a change in funding in writing, total cost for services under this MOU for all Project items listed in Attachment A shall not exceed:

   a. Three hundred seventy-one thousand dollars ($371,000) for Fiscal Year 2012; and

   b. Six hundred ninety-eight thousand six hundred dollars ($698,600) for Fiscal Year 2013, subject to availability of funds.

2. Funding for the Project items listed in Attachment A shall not exceed the actual costs of the goods or services.

3. Funding for each Project item shall not exceed the cost specified in Attachment A, unless DDOE specifically authorizes a change in writing

4. Overhead costs for DC Water staff are not funded, unless DDOE specifically authorizes in writing.

B. PAYMENT

1. DDOE shall pay DC Water for services detailed in this MOU by check or electronic funds transfer based on itemized invoices, within 45 days of receipt of each invoice.

2. DC Water shall submit a monthly budget and project status update, a management report which compares budget to actuals and includes:

   a. Description of the activity that was performed;

   b. List of materials and their costs; and

   c. DC Water staff and consultant services costs.

3. Payment to DC Water shall not exceed the total amount of this MOU.

VII. DISPUTE RESOLUTION

The Parties shall resolve adjustments and/or disputes arising from services between agencies under this MOU with the following procedures:

A. DC Water and DDOE will make every effort to resolve any disputes concerning this MOU at the project staff level.

B. In the event that the Parties' staff is unable to resolve a dispute, the matter will be elevated to the Director of DDOE and the General Manager of DC Water, as appropriate, for resolution within thirty (30) days.

C. If the DDOE Director and DC Water General Manager are unable to resolve the dispute then the aggrieved party may invoke the Termination procedures unless the Director and General Manager agree on an alternate dispute resolution procedure such as submitting the dispute to a third party for resolution.

VIII. COMPLIANCE AND MONITORING

Since this MOU's funds include District of Columbia funds, DC Water will be subject to scheduled and unscheduled monitoring reviews by the District of Columbia to ensure compliance

with all applicable requirements. If funding is federal, in whole or in part, DC Water will be subject to monitoring reviews of the District and the federal government.

IX. RECORDS AND REPORTS

Since this MOU's funding includes District of Columbia funds, DC Water and each of its contractors/grantees paid under this MOU shall maintain records and receipts for the expenditure of all funds provided for a period of no less than three (3) years from the date of expiration or termination of each Project. DC Water shall arrange with its contractors to make these documents immediately available for inspection by request of representatives of DDOE or the District. If funding is federal, in whole or in part, documents must be made similarly available to representatives of the District or the federal government.

X. SPECIAL PROVISIONS FOR TERMINATION OF THE MOU

Any party may terminate this MOU in whole or in part by giving 28 days advance written notice to the other party on one of the following grounds:

A. Lack of funding;

B. Changes in applicable law;

C. Changes in the structure or nature of the program;

D. Elimination of the program or service;

E. Failure of either Party to follow Federal or District laws, rules, or regulations; or

F. Failure of either Party to follow the terms of this MOU.

However, DC Water shall be reimbursed for costs incurred (or irreversibly committed to) performing the above approved services as of the day following the date on which DC Water received written notice of termination. DC Water shall not be obligated to perform any services for which it is to be reimbursed under this MOU following receipt of any notice of termination from DDOE.

XI. NOTICE

The following individuals are the official contacts for each Party under the MOU:

For DDOE:

Mr. Jeffrey Seltzer, P.E.
Associate Director
Stormwater Management Division
District Department of the Environment
1200 First Street, NE, 5th Floor
Washington, DC 20002
Phone 202-535-1603
Fax 202-535-1364
Email jeffrey.seltzer@dc.gov

For DC Water:

Dr. Mohsin Siddique
Supervisor, Environmental Planning
District of Columbia Water and Sewer Authority
5000 Overlook Avenue, SW
Washington, DC 20032
Phone 202-787-2634
Email mohsin.siddique@dcwater.com

XII. MODIFICATIONS

The terms and conditions of this MOU may be modified only upon prior written agreement by the Parties.

XIII. MISCELLANEOUS – FOLLOW DISTRICT LAW

The Parties shall comply with all applicable laws, rules and regulations whether now in force or hereafter enacted or promulgated.

IN WITNESS WHEREOF, the Parties hereto have executed this MOU as follows:

District Department of the Environment

09/27/12

Keith A. Anderson
Interim Director
Date

Kimberly Katzenburger by AKA

9/26/12

Kimberly Katzenburger
General Counsel, for legal sufficiency
Date

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

9/27/12

George S. Hawkins
General Manager
Date

Randy Hayman/mg

9/27/12

Randy Hayman
General Counsel, for legal sufficiency
Date

ATTACHMENT A
DDOE Funding for Projects

This MOU addresses the following activities.

By signing this MOU, DDOE and DC Water have agreed to the cost of project items listed below.

COST OF SERVICES

	Project	Type of Service	FY 2012 Amount (Dollars)	FY 2013 Amount (Dollars)*
1	Water quality catch basin cleaning and maintenance	Provide water quality catch basin maintenance services and reports.	$212,000	$212,000
2	Optimal catch basin inspection, cleaning, and repair plan	Develop an optimal catch basin inspection, cleaning, and repair plan.	$54,000	$161,700
3	Storm water outfall inspection plan and repair schedule	Develop a stormwater outfall repair scope and schedule.	$85,000	$304,900
4	DC Water MS4 Technical Workgroup Staff Activities	Participate in and support the District's MS4 Technical Working Group activities.	$20,000	$20,000
		Total Funding for Projects in FY 2012	**$371,000**	
		Total Funding for Projects in FY 2013		**$698,600**

* FY 2013 Funding amounts subject to availability of funds

Attachment B

DDOE STANDARD OPERATING PROCEDURE FOR WATER QUALITY CATCH BASINS MAINTENANCE SERVICE

1. All chambers of the water quality catch basin (WQCB) are to be vacuumed with a vacuum truck or similar type piece of equipment, all standing water, grit and debris are to be evacuated. All large debris (construction materials, lumber, and those to large to vacuum) are to be bagged and disposed of at approved district disposal facility.

2. After evacuation of the bulk of the trash and debris from the WQCB, the vacuum truck should than be positioned at the storage chamber or clear well outlet chamber of the WQCB while the other chambers are power washed and the remaining debris and sediment and wash water is recovered by vacuuming .

3. All wash water should than be recovered by the vacuum truck at the clear well chamber, the WQCB should be inspected at this time for cracks or physical damage that may require repair. If the WQCB grit, storage or weir chambers are dry (no standing water) upon inspection at the beginning of the maintenance service, than the joint and corners require re-sealing with caulk, hydraulic cement or similar approved material that will create a water tight seal within these chambers.

4. After power washing and vacuuming the wash water, the WQCB should be recharged with clean water to the elevation of the over flow weirs in the grit, storage and weir chambers.

5. A standard WASA service sticker should than be placed on the WQCB indicating the date and type of service.

6. The District Department of the Environment Watershed Protection Division, Inspection and Enforcement Branch should be notified at least 72 hours before service to WQCB are to begin at (202) 535-2240.

Attachment C

water is life

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

September 24, 2012

Statement of Work
Catch Basin Inspection, Cleaning, and Repair Schedule
Municipal Separate Stormwater System (MS4)
Permit No. DC0021199 – Provision 4.3.5.1

Under provision 4.3.5.1 of the Municipal Separate Stormwater System (MS4) NPDES Permit, the District is required to submit a plan to EPA for optimal catch basin inspection, cleaning, and repair. The goal of this optimization plan is to ensure the District's program is compliant with the MS4 regulations and at the same time consistent with its mission and resources.

An estimated total of 25,000 catch basins are in consideration as a part of this initiative. The 25,000 catch basins may include many that are on private properties such as federal complexes, educational institutions, commercial establishments, etc. Distinguishing catch basins on public vs. private properties is also an important objective of this optimization plan. In recent years, DC Water has developed a comprehensive inventory of fire hydrants that includes the following information: GPS coordinates type of hydrant, public vs. private domain, fire flow, date last maintained, etc. DC Water envisions that the optimization plan for catch basin cleaning, inspection, and repair will involve the development of a comprehensive data management tool similar to that developed for fire hydrants. Due to the immensity of the inventory, ease of implementation through a GIS based asset management inventory is imperative to this program. Establishment of this plan includes the following tasks:

Task 1: ***Interviews, Literature Review and Regulatory Review***
DC Water will perform a review of existing literature and regulatory to determine the industry standards for catch basin cleaning, inspection, and repair. The following sources will be used but not limited to:

- District of Columbia MS4 Permit
- District of Columbia Enhanced Street Sweeping and Fine Particle Removal Strategy
- District of Columbia's MOU
- Anacostia River TMDL

DC Water will conduct interviews with the following groups:

a) GIS team and related staff - to develop of a scope, cost, and schedule associated with catch basin data management system.
b) Department of Sewer Services (DSS) - to determine the following existing practices:
    - Cleaning schedule and procedure
    - Inspection procedure
    - Problems encountered
    - High debris areas
    - Cleaning and hauling contracts

- Recordkeeping
- Crew size
- Type of cleaning equipment
- Others

c) Other Utility Companies and/or Municipalities - to determine their current catch basin inspection, cleaning, and repair plan. This includes but is not limited to review of their respective plans and comparison of data gathered with DC Water's existing plan.

Task 2: Inventory Gathering and Establishment

An accurate and complete inventory of storm water catch basins is the keystone of an optimal catch basin cleaning and maintenance program. In as much, under this task, DC Water will develop a plan to compile a complete inventory of storm water catch basins. Compiling an inventory will require developing an inspection process, as well as a process for internally updating the system based on new construction and mandates for the installation of water quality catch basins in the MS4 system. DC Water will evaluate options for collecting and maintaining an accurate inventory of the catch basins with the goal of completing the inventory in five (5) years from the implementation of the Plan.

DC Water currently has two options for updating the catch basin inventory: 1) DC Water Customer Service Operations updating the inventory during the course of scheduled cleaning and maintenance; and 2) hiring a consultant to inventory the Districts storm water catch basins in a focused and concerted effort. DC Water will conduct internal working groups to determine the optimal method for obtaining and maintaining an accurate catch basin inventory. Drivers for designing and selecting a sustainable process include (but are not limited to):

- Ability to maintain a dynamic and accurate GIS;
- Data Requirements: catch basin structural information, precision of data, amount of data; and
- Timeframe for inventory completion.

Task 3: Develop GIS Data Management Tool

DC Water will develop and test aspects of a GIS data management prototype for DSS to track daily cleaning activities. The tool will have a map centric application that will enable crews to report the following catch basin cleaning, maintenance and repair activities from the field.

- Date and Time of Cleaning
- Crew Member Identification, Truck, On-the-Job Time, Duration of Cleaning Activities
- Cleaning Status (cleaned, not found/removed, blocked, construction no access
- Debris Level Prior to Cleaning (i.e. 100%, 75%, 50%, 25%, 0%)
- Debris level After Cleaning (i.e. 100%, 75%, 50%, 25%, 0%)
- Description of Repairs (scheduled in DC Water's work-order system, Maximo)
- Observed Defects (i.e. broken top, tree roots in basin, top slab gap)
- Suggested Rehabilitation (i.e. wall repairs, reset, replace check block, repair masonry) or Follow-On Work (i.e. vacuuming, flush alley grate, jetting, CCTV),
- Application of Complete Sticker (which signifies to residents that the catch basin was cleaned),
- Comments; and
- Updates to the Catch Basin Inventory. Crew members will be able to directly update the GIS with the following fields in addition to the items listed above:
  - Location Description (address)

- Un-locatable Catch Basins
- New Catch Basins
- New Catch Basins
- Catch Basins that no longer exist
- Ownership and Responsibility of Cleaning and Maintenance
- Type (Single, Double, Triple, Quadruple, Elongated, Grate, Double Grate, Water Quality)

Task 4: Establish Catch Basin Prioritization Framework, Condition Assessment Ranking System, and Basis of Rehabilitation

Under this task, DC Water will establish a framework to prioritize service areas for cleaning and inspection; develop a catch basin cleaning and inspection schedule and strategy; and develop a form that will be used for condition assessment. In addition, a Physical Condition Assessment (PCA) ranking system and Basis of Rehabilitation (BOR) philosophy will be will be completed as part of the optimization plan.

DC Water will also create an inspection protocol to govern catch basin inspections. The protocol will include instructions and data requirements to be collected by inspection and/or cleaning crews such as: photos, GPS location, the location and elevation of influent and effluent pipes, grate dimensions, catch basin type and dimensions. This task will also require coordination with DC Water's Information Technology and GIS Department's to synthesize the GIS data management tool (Task 4.2) with the approved data collection requirements.

Task 5: Preparation of Report

DC Water will prepare a report for the optimization plan for inspection, cleaning, and repair of catch basins. A draft report will be initially prepared for the team and DDOE to review. Once comments are received, a final report will be prepared and submitted to DDOE.

Project Budget:

TASK NUMBER	TASK DESCRIPTION	DCW	CONSULTANT	TOTAL
Task 1	Interviews, Literature Review and Regulatory Review	$25,000	$40,800	$65,800
Task 2	Inventory gathering and establishment	$19,100	$7,100	$26,200
Task 3	Develop GIS Data Management Tool	$102,000*	$6,200	$108,200
Task 4	Establish Catch Basin Prioritization Framework, Condition Assessment Ranking System, and Basis of Rehabilitation	$13,900	$23,900	$37,800
Task 5	Preparation of Report	$6,400	$16,100	$22,500
Task 6	DDOE Status Reports		$6,200	$6,200
TOTAL		$166,400	$100,300	$266,700

*DC Water will pay 50% resulting in estimated cost to DDOE of $51,000

Attachment D

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

June 21, 2012

Scope of Work for DC Water Outfall Inspection and Repair Schedule
Municipal Separate Storm Sewer System (MS4), NPDES Permit DC0000221
Provision 4.3.5.3

This scope of work and cost estimate reflects the work required to inspect and develop a repair schedule for the District's storm water outfalls, per provision 4.3.5.3 of NPDES Permit DC0000221. The District is required to develop a repair schedule for all of its outfalls in the MS4 area by June 2013.

Over the last two (2) weeks, DC Water and District Department of Environment (DDOE) has merged our databases of outfall inventory and have conducted pilot field inspections to categorize representative outfall types, determine typical methods of access to each, and identify representative structural defects that could have a negative impact on water quality. This work was also conducted to develop a methodology for a two-person crew to conduct the inspections and to create an inspection reporting form that would clearly document field and infrastructure conditions observed during each inspection. The pilot field inspections also determined the time required per outfall inspection in order to develop a realistic cost estimate for inspecting the inventory of 680 estimated outfalls.

Task 1 - Sort Inventory, Plan and Conduct Inspections

DC Water will review the current inventories of outfalls as documented in DDOE and DC Water records. DC Water will scrub and check the inventory for inaccuracies. DC Water consulted the following sources to develop a preliminary list of outfalls that should be inspected to meet the permit requirement:

- DC Water 2006 Outfall Survey (provided Jan 2012 by DC Water);
- DDOE Outfall Inventory (provided May 2012 by DDOE Storm Water Management Division); and
- District of Columbia NPDES Permits (mined from www.epa.gov).

Based on these sources, DC Water compiled a GIS featureclass of outfall locations. Our preliminary count of outfalls owned and/or maintained by DC Water is provided in Table 1.

Outfall Type/Source	Estimated No. of Outfalls
Outfalls Identified in DC Water GIS and DDOE Survey:	760
CSO Outfalls (covered under DC0021199):	(60)
Outfalls Owned by External Agencies	(20)
Storm Water Outfalls Owned or Maintained by DC Water:	**680**

Table 1: Storm Water Outfalls Owned or Maintained by DC Water

DC Water will create and later carry out an inspection strategy to cost-effectively direct the inspection efforts of the field crews. This will include parcelizing and prioritizing inspection areas and pulling copies of location maps, creating field forms for each location, identifying access points to each site and coordinating with property owners as applicable, including the National Park Service. This scope of work will not cover the inspection or repair of: 1) outfalls covered by other NPDES permits; and 2) outfalls that convey water from non-public property (e.g. outfalls owned or maintained by external agencies).

Deliverables:

1) GIS featureclass with approximately 680 outfalls
2) Preliminary outfall inspection methodology to be used by field crews
3) Draft standard inspection form and standard photo documentation procedures
4) Completed field forms and photo documentation for sample outfalls (approximately 30)
5) Paper copies of inspection areas, each noting the estimated location of the outfalls to be inspected by a given field crew on a particular day and appropriate access points

Task 2 – Review of Rehabilitation Techniques

DC Water will research alternative repair and rehabilitation techniques for outfall structures with emphasis on bioengineering options, wherein we avoid rebuilding hard outfall infrastructure that is likely to erode and be undermined in a repetitious fashion thus winding up with the same deteriorated condition over time. DC Water will present the findings to DDOE and external stakeholders and build consensus on the type and level of repair and rehabilitation that is appropriate to meet the permit provisions. Based on these discussions, DC Water will develop several "typical" repair and/or rehabilitation concept designs. The objective of this approach is to help inspection crews identify a concept approach to rehabilitation based on a single site visit. These concepts will be finalized by design engineers after EPA approval of the outfall repair/rehabilitation plan and schedule.

Deliverables:

1) Presentation that documents "typical" outfall repair/rehabilitation options

Task 3 – Coordination with National Park Service under DC Water Permit

Approximately 370 of the District's 680 outfalls are located on National Park Service (NPS) lands (see Table 2). Inspection of these outfalls will require coordination with NPS in accordance with DC Water's NPS Special Use Permit (NCR-6000-11-001) which includes:

- Pre-Activity Meetings,
- Pre-Activity Written Notices,
- Post-Project Inspections,

- Post-Activity Written Notices, and
- Security Clearance (applicable for NAMA inspections).

DC Water will complete the permit notification and communication requirements, as required by the administration of each NPS park, during the pre-activity meeting. We have developed our level of effort based on two (2) meetings for each park (one pre and a post-activity meeting); developing four (4) pre- and post-activity written notices that will require one day of effort each; and three (3) days of coordination effort to obtain security clearance at appropriate park locations where various agencies police forces have jurisdiction.

Acronym	Park Division	Estimated No. of Outfalls
CHOH	C&O Canal	47
NACC	National Mall & Memorial Parks	26
NACE	National Capital Parks – East	95
ROCR	Rock Creek Park	202
Total No. of Outfalls		370

Table 2: Storm Water Outfalls Located on NPS Lands

Task 4 – Finalize Inspection Protocol and Conduct Outfall Inspections

Based on information and input gathered from the above tasks, DC Water will finalize an inspection protocol and list of data requirements to be collected during each outfall inspection. DC Water will also develop a database for storing inspection data that comes in from the field. DC Water will perform inspections of the outfalls included in the inventory developed under Task 1 using the refined methodology.

Deliverables:

1) Final Inspection Protocol
2) Completed Inspection Forms
3) Updated GIS feature class and photograph catalog

Task 5 – Determine Rehabilitation Techniques and Present Rehabilitation Recommendations

Following the completion of the inspections, DC Water will sort outfalls needing repair/rehabilitation into categories based on the type of repair/rehab needed. DC Water will develop preliminary "typical" design approaches and develop a cost estimate for implementing each "typical." DC Water will then develop a preliminary engineer's estimate of construction costs and duration (e.g. time to complete construction) for all outfalls needing improvements.

Task 6 – Develop Outfall Repair Schedule

DC Water will develop a schedule strategy that will determine the order in which outfalls will be repaired. The strategy will be developed with the intention of addressing those outfalls with the greatest impact to water quality (e.g. sensitivity of water body, scale of impact, risk of causing environmental impact) first. However, factors that could potentially cause the delay of "high impact" repairs (e.g. ease of access, permitting requirements, NEPA compliance, constructability) will also be incorporated into

the strategy. DC Water will conduct a workshop with DDOE to share schedule strategy and incorporate comments and revisions as directed.

Based on the finalized strategy, DC Water will populate an outfall repair schedule. Our goal will be to schedule the repair of 10% of the District's outfalls per year; however, the schedule may propose different or interim deadlines based on the cost, constructability, accessibility or permitting requirements. Deviations in the schedule from the 10% annual requirement will be supported with information about their appropriateness (November 4, 2011 letter from EPA to DDOE).

Deliverable:

1) Table of complete inventory of all outfalls with recommended "typical" repair/rehabilitation, year in which construction is scheduled, permitting required for each, and estimated cost associated with each outfall location.

Task 7 - Public Notice

DC Water will provide eighty (80) hours of as-needed support to DDOE to comply with public notice requirements.

Task 8 – DDOE Status Reports

DC Water will provide monthly status reports (1 -2 page briefs) of project progress.

PROJECT BUDGET & ESTIMATED HOURS

The task budgets for the project have been developed based on a time and materials basis using the rates for Malcolm Pirnie Engineers (WSA #437).

No.	TASK	DCW	CONSULTANT	TOTAL
1	Sort Inventory, Plan and Conduct Inspections	7,700	28,000	35,700
2	Review of Rehabilitation Techniques	9,400	27,000	36,400
3	Coordination with National Park Service under DC Water Permit	18,400	34,000	52,400
4	Finalize Inspection Protocol and Conduct Outfall Inspections	10,700	110,000	120,700
5	Determine Rehabilitation Techniques and Present Rehabilitation	15,500	64,000	79,500
6	Develop Outfall Repair Schedule	13,600	29,000	42,600
7	Public Notice	6,400	10,000	16,400
8	DDOE Status Reports	---	6,200	6,200
TOTAL BUDGET		$81,700	$ 308,200	$389,900

Appendix C DC Retrofit Program Stormwater Volume and Pollution Removal Calculations

Retrofit Reduction Calculations - Bioretention, Permeable Pavers, Porous Concrete

Load Reductions (Pounds/yr)

Year	Watershed	Sq. Ft.	Acres	Volume Retained (gallons)	Fecal Coliform	TN	TP	TSS	Cu	Pb	Zn	Trash
FY11	Rock Creek	0	0.0	**0.00**	0.00E+00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0
FY11	Anacostia	205,188	4.7	**2,306,330.33**	1.63E+12	40.70	6.12	1567.45	1.27	5.65E-01	3.30E+00	139.2600358
FY11	Potomac	0	0.0	**0.00**	0.00E+00	0.00	0.00	0.00	0.00	0.00E+00	0.00E+00	0
FY12	Rock Creek	29,318	0.7	**329,536.78**	3.16E+11	5.82	0.87	223.96	0.18	8.08E-02	4.71E-01	19.89797518
FY12	Anacostia	235,273	5.4	**2,644,488.25**	1.87E+12	46.67	7.02	1797.28	1.46	6.48E-01	3.78E+00	159.67857
FY12	Potomac	2,628	0.1	**29,538.94**	2.09E+10	0.52	0.08	20.08	0.02	7.24E-03	4.22E-02	1.783610027
			FY 2011 Total	**2,306,330.33**	**1.63E+12**	**40.70**	**6.12**	**1,567.45**	**1.27**	**0.57**	**3.30**	**139.26**
			FY 2012 Total	**3,003,563.97**	**2.21E+12**	**53.00**	**7.97**	**2,041.31**	**1.66**	**0.74**	**4.29**	**181.36**

				FY 11						FY12					
				Anacostia		Rock Creek		Potomac		Anacostia		Rock Creek		Potomac	
Year		Day	Precipitation	Original Runoff from 44k sf	Runoff retained per event by 0.5" retrofit	Original Runoff from 16k sf	Runoff retained per event by 0.5" retrofit	Original Runoff from 9k sf	Runoff retained per event by 0.5" retrofit	Original Runoff from 68k sf	Runoff retained per event by 0.5" retrofit	Original Runoff from 30k sf	Runoff retained per event by 0.5" retrofit	Original Runoff from 7k sf	Runoff retained per event by 0.5" retrofit
2009		131.2	4.09	1.525207655	0.186455704	0	0	0	0	1.748836095	0.213794144	0.21792716	0.026641462	0.019534504	0.002388081
2009		39.5	2.17	0.809217753	0.186455704	0	0	0	0	0.927866583	0.213794144	0.115623945	0.026641462	0.010364272	0.002388081
2009		69.9	2.13	0.794301297	0.186455704	0	0	0	0	0.910763052	0.213794144	0.113492628	0.026641462	0.010173226	0.002388081
2009		105.5	1.95	0.727177244	0.186455704	0	0	0	0	0.83379716	0.213794144	0.103901702	0.026641462	0.009313516	0.002388081
2009		271.5	1.89	0.704802559	0.186455704	0	0	0	0	0.808141863	0.213794144	0.100704727	0.026641462	0.009026947	0.002388081
2009		290.6	1.86	0.693615217	0.186455704	0	0	0	0	0.795314214	0.213794144	0.099106239	0.026641462	0.008883662	0.002388081
2009		223.7	1.82	0.678698761	0.186455704	0	0	0	0	0.778210683	0.213794144	0.096974922	0.026641462	0.008692615	0.002388081
2009		6.2	1.80	0.671240533	0.186455704	0	0	0	0	0.769658917	0.213794144	0.095909263	0.026641462	0.008597092	0.002388081
2009		200.9	1.80	0.671240533	0.186455704	0	0	0	0	0.769658917	0.213794144	0.095909263	0.026641462	0.008597092	0.002388081
2009		360.2	1.36	0.507159514	0.186455704	0	0	0	0	0.581520071	0.213794144	0.072464777	0.026641462	0.006495581	0.002388081
2009		219.2	1.32	0.492243057	0.186455704	0	0	0	0	0.564416539	0.213794144	0.07033346	0.026641462	0.006304534	0.002388081
2009		258.8	1.32	0.492243057	0.186455704	0	0	0	0	0.564416539	0.213794144	0.07033346	0.026641462	0.006304534	0.002388081
2009		135.0	1.30	0.484784829	0.186455704	0	0	0	0	0.555864773	0.213794144	0.069267801	0.026641462	0.006209011	0.002388081
2009		95.8	1.28	0.477326601	0.186455704	0	0	0	0	0.547313008	0.213794144	0.068202143	0.026641462	0.006113488	0.002388081
2009		14.3	1.08	0.40274432	0.186455704	0	0	0	0	0.46179535	0.213794144	0.057545558	0.026641462	0.005158255	0.002388081
2009		369.7	1.04	0.387827863	0.186455704	0	0	0	0	0.444691819	0.213794144	0.055414241	0.026641462	0.004967209	0.002388081
2009		285.5	0.87	0.324432924	0.186455704	0	0	0	0	0.37200181	0.213794144	0.046356144	0.026641462	0.004155261	0.002388081
2009		58.0	0.86	0.32070381	0.186455704	0	0	0	0	0.367725927	0.213794144	0.045823315	0.026641462	0.0041075	0.002388081
2009		144.3	0.70	0.261037985	0.186455704	0	0	0	0	0.299311801	0.213794144	0.037298047	0.026641462	0.003343314	0.002388081
2009		28.5	0.63	0.234934186	0.186455704	0	0	0	0	0.269380621	0.213794144	0.033568242	0.026641462	0.003008982	0.002388081
2009		33.7	0.62	0.231205072	0.186455704	0	0	0	0	0.265104738	0.213794144	0.033035413	0.026641462	0.002961221	0.002388081
2009		141.3	0.57	0.212559502	0.186455704	0	0	0	0	0.243725324	0.213794144	0.030371267	0.026641462	0.002722412	0.002388081
2009		168.9	0.54	0.20137216	0.186455704	0	0	0	0	0.230897675	0.213794144	0.028772779	0.026641462	0.002579128	0.002388081
2009		42.7	0.53	0.197643046	0.186455704	0	0	0	0	0.226621792	0.213794144	0.02823995	0.026641462	0.002531366	0.002388081
2009		319.1	0.49	0.182726589	0.182726589	0	0	0	0	0.209518261	0.209518261	0.026108633	0.026108633	0.002340319	0.002340319
2009		246.8	0.48	0.178997475	0.178997475	0	0	0	0	0.205242378	0.205242378	0.025575804	0.025575804	0.002292558	0.002292558
2009		339.9	0.47	0.175268361	0.175268361	0	0	0	0	0.200966495	0.200966495	0.025042974	0.025042974	0.002244796	0.002244796
2009		265.7	0.46	0.171539247	0.171539247	0	0	0	0	0.196690612	0.196690612	0.024510145	0.024510145	0.002197035	0.002197035
2009		111.8	0.39	0.145435449	0.145435449	0	0	0	0	0.166759432	0.166759432	0.02078034	0.02078034	0.001862703	0.001862703
2009		0.9	0.36	0.134248107	0.134248107	0	0	0	0	0.153931783	0.153931783	0.019181853	0.019181853	0.001719418	0.001719418
2009		347.2	0.34	0.126789878	0.126789878	0	0	0	0	0.145380018	0.145380018	0.018116194	0.018116194	0.001623895	0.001623895
2009		82.8	0.33	0.123060764	0.123060764	0	0	0	0	0.141104135	0.141104135	0.017583365	0.017583365	0.001576134	0.001576134
2009		274.2	0.32	0.11933165	0.11933165	0	0	0	0	0.136828252	0.136828252	0.017050536	0.017050536	0.001528372	0.001528372
2009		351.4	0.32	0.11933165	0.11933165	0	0	0	0	0.136828252	0.136828252	0.017050536	0.017050536	0.001528372	0.001528372
2009		262.2	0.30	0.111873422	0.111873422	0	0	0	0	0.128276486	0.128276486	0.015984877	0.015984877	0.001432849	0.001432849

				FY 11						FY12					
				Anacostia		Rock Creek		Potomac		Anacostia		Rock Creek		Potomac	
Year		Day	Precipitation	Original Runoff from 44k sf	Runoff retained per event by 0.5" retrofit	Original Runoff from 16k sf	Runoff retained per event by 0.5" retrofit	Original Runoff from 9k sf	Runoff retained per event by 0.5" retrofit	Original Runoff from 68k sf	Runoff retained per event by 0.5" retrofit	Original Runoff from 30k sf	Runoff retained per event by 0.5" retrofit	Original Runoff from 7k sf	Runoff retained per event by 0.5" retrofit
2009		75.2	0.21	0.078311395	0.078311395	0	0	0	0	0.08979354	0.08979354	0.011189414	0.011189414	0.001002994	0.001002994
2009		89.9	0.17	0.063394939	0.063394939	0	0	0	0	0.072690009	0.072690009	0.009058097	0.009058097	0.000811948	0.000811948
2009		174.5	0.17	0.063394939	0.063394939	0	0	0	0	0.072690009	0.072690009	0.009058097	0.009058097	0.000811948	0.000811948
2009		20.3	0.16	0.059665825	0.059665825	0	0	0	0	0.068414126	0.068414126	0.008525268	0.008525268	0.000764186	0.000764186
2009		295.4	0.16	0.059665825	0.059665825	0	0	0	0	0.068414126	0.068414126	0.008525268	0.008525268	0.000764186	0.000764186
2009		331.3	0.15	0.055936711	0.055936711	0	0	0	0	0.064138243	0.064138243	0.007992439	0.007992439	0.000716424	0.000716424
2009		101.8	0.14	0.052207597	0.052207597	0	0	0	0	0.05986236	0.05986236	0.007459609	0.007459609	0.000668663	0.000668663
2009		230.5	0.14	0.052207597	0.052207597	0	0	0	0	0.05986236	0.05986236	0.007459609	0.007459609	0.000668663	0.000668663
2009		50.2	0.12	0.044749369	0.044749369	0	0	0	0	0.051310594	0.051310594	0.006393951	0.006393951	0.000573139	0.000573139
2009		236.5	0.11	0.041020255	0.041020255	0	0	0	0	0.047034712	0.047034712	0.005861122	0.005861122	0.000525378	0.000525378
2009		323.1	0.11	0.041020255	0.041020255	0	0	0	0	0.047034712	0.047034712	0.005861122	0.005861122	0.000525378	0.000525378
2009		54.8	0.10	0.037291141	0.037291141	0	0	0	0	0.042758829	0.042758829	0.005328292	0.005328292	0.000477616	0.000477616
2009		78.8	0.10	0.037291141	0.037291141	0	0	0	0	0.042758829	0.042758829	0.005328292	0.005328292	0.000477616	0.000477616
2009		193.0	0.10	0.037291141	0.037291141	0	0	0	0	0.042758829	0.042758829	0.005328292	0.005328292	0.000477616	0.000477616
2009		335.4	0.10	0.037291141	0.037291141	0	0	0	0	0.042758829	0.042758829	0.005328292	0.005328292	0.000477616	0.000477616
2009		186.8	0.09	0.033562027	0.033562027	0	0	0	0	0.038482946	0.038482946	0.004795463	0.004795463	0.000429855	0.000429855
2009		63.8	0.08	0.029832913	0.029832913	0	0	0	0	0.034207063	0.034207063	0.004262634	0.004262634	0.000382093	0.000382093
2009		178.8	0.07	0.026103798	0.026103798	0	0	0	0	0.02993118	0.02993118	0.003729805	0.003729805	0.000334331	0.000334331
2009		355.5	0.07	0.026103798	0.026103798	0	0	0	0	0.02993118	0.02993118	0.003729805	0.003729805	0.000334331	0.000334331
2009		119.5	0.06	0.022374684	0.022374684	0	0	0	0	0.025655297	0.025655297	0.003196975	0.003196975	0.00028657	0.00028657
2009		182.9	0.06	0.022374684	0.022374684	0	0	0	0	0.025655297	0.025655297	0.003196975	0.003196975	0.00028657	0.00028657
2009		126.3	0.05	0.01864557	0.01864557	0	0	0	0	0.021379414	0.021379414	0.002664146	0.002664146	0.000238808	0.000238808
2009		150.8	0.05	0.01864557	0.01864557	0	0	0	0	0.021379414	0.021379414	0.002664146	0.002664146	0.000238808	0.000238808
2009		204.9	0.05	0.01864557	0.01864557	0	0	0	0	0.021379414	0.021379414	0.002664146	0.002664146	0.000238808	0.000238808
2009		165.4	0.03	0.011187342	0.011187342	0	0	0	0	0.012827649	0.012827649	0.001598488	0.001598488	0.000143285	0.000143285
2009		311.5	0.03	0.011187342	0.011187342	0	0	0	0	0.012827649	0.012827649	0.001598488	0.001598488	0.000143285	0.000143285
2009		10.2	0.02	0.007458228	0.007458228	0	0	0	0	0.008551766	0.008551766	0.001065658	0.001065658	9.55232E-05	9.55232E-05
2009		241.5	0.01	0.003729114	0.003729114	0	0	0	0	0.004275883	0.004275883	0.000532829	0.000532829	4.77616E-05	4.77616E-05
2009		280.8	0.01	0.003729114	0.003729114	0	0	0	0	0.004275883	0.004275883	0.000532829	0.000532829	4.77616E-05	4.77616E-05
2009															
Annual Total Vol. (ac. ft)					7.077858506		0		0		8.115625691		1.0113099		0.090651559
Annual Total Vol. (gal)					**2,306,330.33**		**0.00**		**0.00**		**2,644,488.25**		**329,536.78**		**29,538.94**

NOTES:

Site run-off is calculated in acre feet as [P × [(RvI × %I) + (RvC × %C) + (RvN × %N)] × SA]/12

P = storm event in inches

RvI = .95 (runoff coefficient for impervious cover)

RvC = 0.25 (runoff coefficient for compacted cover)

RvN = .05 (runoff coefficient for natural cover)

%I = percent of site in impervious cover

%C = percent of site in compacted cover

%N = percent of site in natural cover

SA = site area, in acres

Retrofit Reduction Calculations - Impervious Surface Removal and Conversion to Green Space

Year	Watershed	Sq. Ft.	Acres	Volume Retained (gallons)	Fecal Coliform	TN	TP	TSS	Cu	Pb	Zn	Trash
FY11	Rock Creek	31,478	0.7	**556,438.48**	1.40E+10	0.77	0.32	72.14	0.04	0.00E+00	8.67E-02	0.00
FY11	Anacostia	56,660	1.3	**1,001,582.19**	2.51E+10	1.38	0.57	129.85	0.08	0.00E+00	1.69E-01	0.00
FY11	Potomac	37,773	0.9	**667,715.57**	1.67E+10	0.92	0.38	86.57	0.05	0.00E+00	1.04E-01	0.00
FY12	Rock Creek	20,014	0.5	**353,788.67**	8.87E+09	0.49	0.20	45.87	0.03	0.00E+00	5.51E-02	0.00
FY12	Anacostia	21,535	0.5	**380,675.47**	9.54E+09	0.52	0.22	49.35	0.03	0.00E+00	6.43E-02	0.00
FY12	Potomac	14,987	0.3	**264,926.09**	6.64E+09	0.36	0.15	34.35	0.02	0.00E+00	4.13E-02	0.00
	FY 11 Total	125,911	2.9	**2,225,736.23**	**5.58E+10**	**3.06**	**1.27**	**288.56**	**0.17**	**0.00**	**0.36**	0.00
	FY 12 Total	56,536	1.3	**999,390.23**	**2.51E+10**	**1.38**	**0.57**	**129.57**	**0.08**	**0.00**	**0.16**	0.00

				FY 11									FY 12						
				Anacostia			Rock Creek			Potomac			Anacostia			Rock Creek			Potomac	
Year	Day	Precipitation	Original Runoff from 56k sf	Runoff from retrofitted 56k sf	Difference Retained	Original Runoff from 31k sf	Runoff from retrofitted 31k sf	Difference Retained	Original Runoff from 37k sf	Runoff from retrofitted 37k sf	Difference Retained	Original Runoff from 21k sf	Runoff from Retrofitted 21k sf	Difference Retained	Original Runoff from 20k sf	Runoff from Retrofitted 20k	Difference Retained	Original Runoff from 14k sf	Runoff from Retrofitted 14k sf	Difference Retained
2009	131.2	4.09	0.421166	0.11083323	0.31033305	0.233982916	0.061574452	0.172408464	0.280775039	0.073888168	0.206886871	0.160074404	0.042124843	0.117949561	0.148768476	0.039149599	0.109618877	0.111401676	0.029316231	0.082085446
2009	39.5	2.17	0.223455	0.058803939	0.16465103	0.124142525	0.032669086	0.09147344	0.148968664	0.03920228	0.109766384	0.084929452	0.022349856	0.062579596	0.078930952	0.020771303	0.058159649	0.059105535	0.015554088	0.043551447
2009	69.9	2.13	0.219336	0.057719995	0.16161599	0.121854184	0.03206689	0.089787293	0.146222698	0.038479657	0.10774304	0.083363932	0.021937877	0.061426055	0.077476003	0.020388422	0.057087581	0.058016032	0.015267377	0.042748655
2009	105.5	1.95	0.200801	0.052842249	0.1479583	0.111556647	0.029357012	0.082199635	0.13386585	0.035227855	0.098637995	0.076319092	0.020083972	0.056235121	0.070928735	0.018665457	0.052263279	0.053113269	0.013977176	0.039136093
2009	271.5	1.89	0.194622	0.051216334	0.14340573	0.108124135	0.02845372	0.079670415	0.129746901	0.034143921	0.09560298	0.073970813	0.019466003	0.054504809	0.068746313	0.018091135	0.050655178	0.051479014	0.013547109	0.037931905
2009	290.6	1.86	0.191533	0.050403376	0.14112945	0.106407879	0.028002073	0.078405805	0.127687426	0.033601954	0.094085472	0.072796673	0.019157019	0.053639654	0.067655101	0.017803974	0.049851127	0.050661887	0.013332076	0.037329811
2009	223.7	1.82	0.187414	0.049319433	0.13809441	0.104119537	0.027399878	0.076719659	0.12494146	0.032879332	0.092062128	0.071231153	0.01874504	0.052486113	0.066200153	0.017421093	0.04877906	0.049572384	0.013045364	0.03652702
2009	6.2	1.80	0.185354	0.048777461	0.13657689	0.102975366	0.027098781	0.075876586	0.123568477	0.03251802	0.091050457	0.070448393	0.018539051	0.051909342	0.065472679	0.017229652	0.048243026	0.049027633	0.012902009	0.036125624
2009	200.9	1.80	0.185354	0.048777461	0.13657689	0.102975366	0.027098781	0.075876586	0.123568477	0.03251802	0.091050457	0.070448393	0.018539051	0.051909342	0.065472679	0.017229652	0.048243026	0.049027633	0.012902009	0.036125624
2009	360.2	1.36	0.140046	0.036854081	0.10319143	0.07780361	0.020474634	0.057328976	0.093362849	0.024569171	0.068793678	0.053227675	0.014007283	0.039220392	0.049468246	0.01301796	0.036450287	0.0370431	0.009748184	0.027294916
2009	219.2	1.32	0.135927	0.035770138	0.10015639	0.075515269	0.019872439	0.05564283	0.090616883	0.023846548	0.066770335	0.051662155	0.013595304	0.038066851	0.048013298	0.012635078	0.035378219	0.035953597	0.009461473	0.026492124
2009	258.8	1.32	0.135927	0.035770138	0.10015639	0.075515269	0.019872439	0.05564283	0.090616883	0.023846548	0.066770335	0.051662155	0.013595304	0.038066851	0.048013298	0.012635078	0.035378219	0.035953597	0.009461473	0.026492124
2009	135.0	1.30	0.133867	0.035228166	0.09863887	0.074371098	0.019571342	0.054799756	0.0892439	0.023485237	0.065758663	0.050879395	0.013389314	0.037490081	0.047285824	0.012443638	0.034842186	0.035408846	0.009318117	0.026090728
2009	95.8	1.28	0.131808	0.034686194	0.09712134	0.073226927	0.019270244	0.053956683	0.087870917	0.023123926	0.064746991	0.050096635	0.013183325	0.03691331	0.046558349	0.012252197	0.034306152	0.034864094	0.009174762	0.025689333
2009	14.3	1.08	0.111213	0.029266476	0.08194613	0.06178522	0.016259268	0.045525951	0.074141086	0.019510812	0.054630274	0.042269036	0.01112343	0.031145605	0.039283607	0.010337791	0.028945816	0.02941658	0.007741205	0.021675374
2009	369.7	1.04	0.107094	0.028182533	0.07891109	0.059496878	0.015657073	0.043839805	0.07139512	0.018788189	0.052606931	0.040703516	0.010711452	0.029992064	0.037828659	0.00995491	0.027873749	0.028327077	0.007454494	0.020872583
2009	285.5	0.87	0.089588	0.023575773	0.06601216	0.049771427	0.013097744	0.036673683	0.059724764	0.015717043	0.044007721	0.034050057	0.008960541	0.025089515	0.031645128	0.008327665	0.023317463	0.023696689	0.006235971	0.017460718
2009	58.0	0.86	0.088558	0.023304787	0.0652534	0.049199342	0.012947195	0.036252147	0.059038272	0.015536387	0.043501885	0.033658677	0.008857546	0.02480113	0.031281391	0.008231945	0.023049446	0.023424313	0.006164293	0.01726002
2009	144.3	0.70	0.072082	0.018969013	0.05311324	0.040045976	0.010538415	0.029507561	0.048054408	0.012645897	0.035408511	0.027396597	0.007209631	0.020186966	0.025461597	0.00670042	0.018761177	0.019066302	0.005017448	0.014048854
2009	28.5	0.63	0.064874	0.017072111	0.04780191	0.036041378	0.009484573	0.026556805	0.043248967	0.011381307	0.03186766	0.024656938	0.006488668	0.01816827	0.022915438	0.006030378	0.016885059	0.017159671	0.004515703	0.012643968
2009	33.7	0.62	0.063844	0.016801125	0.04704315	0.035469293	0.009334024	0.026135268	0.042562475	0.011200651	0.031361824	0.024265558	0.006385673	0.017879885	0.0225517	0.005934658	0.016617042	0.016887296	0.004444025	0.01244327
2009	141.3	0.57	0.058696	0.015446196	0.04324935	0.032608866	0.008581281	0.024027586	0.039130018	0.010297373	0.028832645	0.022308658	0.005870699	0.016437958	0.020733015	0.005456057	0.015276958	0.015525417	0.004085636	0.011439781
2009	168.9	0.54	0.055606	0.014633238	0.04097307	0.03089261	0.008129634	0.022762976	0.037070543	0.009755406	0.027315137	0.021134518	0.005561715	0.015572803	0.019641804	0.005168896	0.014472908	0.01470829	0.003870603	0.010837687
2009	42.7	0.53	0.054577	0.014362252	0.04021431	0.030320525	0.007979085	0.022341439	0.036384052	0.00957475	0.026809301	0.020743138	0.005458721	0.015284417	0.019278067	0.005073175	0.014204891	0.014435914	0.003798925	0.010636989
2009	319.1	0.49	0.050458	0.013278309	0.03717926	0.028032183	0.00737689	0.020655293	0.033638085	0.008852128	0.024785958	0.019177618	0.005046742	0.014130876	0.017823118	0.004690294	0.013132824	0.013346411	0.003512213	0.009834198
2009	246.8	0.48	0.049428	0.013007323	0.0364205	0.027460098	0.007226342	0.020233756	0.032951594	0.008671472	0.024280122	0.018786238	0.004943747	0.013842491	0.017459381	0.004594574	0.012864807	0.013074035	0.003440536	0.0096335
2009	339.9	0.47	0.048398	0.012736337	0.03566174	0.026888012	0.007075793	0.01981222	0.032265102	0.008490816	0.023774286	0.018394858	0.004840752	0.013554106	0.017095644	0.004498854	0.01259679	0.01280166	0.003368858	0.009432802
2009	265.7	0.46	0.047368	0.012465351	0.03490298	0.026315927	0.006925244	0.019390683	0.031578611	0.008310161	0.02326845	0.018003478	0.004737757	0.013265721	0.016731907	0.004403133	0.012328773	0.012529284	0.00329718	0.009232104
2009	111.8	0.39	0.04016	0.01056845	0.02959166	0.022311329	0.005871402	0.016439927	0.02677317	0.007045571	0.019727599	0.015263818	0.004016794	0.011247024	0.014185747	0.003733091	0.010452656	0.010622654	0.002795435	0.007827219
2009	0.9	0.36	0.037071	0.009755492	0.02731538	0.020595073	0.005419756	0.015175317	0.024713695	0.006503604	0.018210091	0.014089679	0.00370781	0.010381868	0.013094536	0.00344593	0.009648605	0.009805527	0.002580402	0.007225125
2009	347.2	0.34	0.035011	0.00921352	0.02579786	0.019450903	0.005118659	0.014332244	0.023340712	0.006142293	0.01719842	0.013306919	0.003501821	0.009805098	0.012367062	0.00325449	0.009112572	0.009260775	0.002437046	0.006823729
2009	82.8	0.33	0.033982	0.008942534	0.0250391	0.018878817	0.00496811	0.013910707	0.022654221	0.005961637	0.016692584	0.012915539	0.003398826	0.009516713	0.012003324	0.00315877	0.008844555	0.008988399	0.002365368	0.006623031
2009	274.2	0.32	0.032952	0.008671549	0.02428034	0.018306732	0.004817561	0.013489171	0.021967729	0.005780981	0.016186748	0.012524159	0.003295831	0.009228328	0.011639587	0.003063049	0.008576538	0.008716024	0.00229369	0.006422333
2009	351.4	0.32	0.032952	0.008671549	0.02428034	0.018306732	0.004817561	0.013489171	0.021967729	0.005780981	0.016186748	0.012524159	0.003295831	0.009228328	0.011639587	0.003063049	0.008576538	0.008716024	0.00229369	0.006422333
2009	262.2	0.30	0.030892	0.008129577	0.02276282	0.017162561	0.004516463	0.012646098	0.020594746	0.00541967	0.015175076	0.011741399	0.003089842	0.008651557	0.010912113	0.002871609	0.008040504	0.008171272	0.002150335	0.006020937
2009	75.2	0.21	0.021625	0.005690704	0.01593397	0.012013793	0.003161524	0.008852268	0.014416322	0.003793769	0.010622553	0.008218979	0.002162889	0.00605609	0.007638479	0.002010126	0.005628353	0.00571989	0.001505234	0.004214656
2009	89.9	0.17	0.017506	0.00460676	0.01289893	0.009725451	0.002559329	0.007166122	0.011670356	0.003071146	0.00859921	0.006653459	0.00175091	0.004902549	0.006183531	0.001627245	0.004556286	0.004630388	0.001218523	0.003411864
2009	174.5	0.17	0.017506	0.00460676	0.01289893	0.009725451	0.002559329	0.007166122	0.011670356	0.003071146	0.00859921	0.006653459	0.00175091	0.004902549	0.006183531	0.001627245	0.004556286	0.004630388	0.001218523	0.003411864
2009	20.3	0.16	0.016476	0.004335774	0.01214017	0.009153366	0.002408781	0.006744585	0.010983865	0.002890491	0.008093374	0.006262079	0.001647916	0.004614164	0.005819794	0.001531525	0.004288269	0.004358012	0.001146845	0.003211167
2009	295.4	0.16	0.016476	0.004335774	0.01214017	0.009153366	0.002408781	0.006744585	0.010983865	0.002890491	0.008093374	0.006262079	0.001647916	0.004614164	0.005819794	0.001531525	0.004288269	0.004358012	0.001146845	0.003211167
2009	331.3	0.15	0.015446	0.004064788	0.01138141	0.008581281	0.002258232	0.006323049	0.010297373	0.002709835	0.007587538	0.005870699	0.001544921	0.004325779	0.005456057	0.001435804	0.004020252	0.004085636	0.001075167	0.003010469
2009	101.8	0.14	0.014416	0.003793803	0.01062265	0.008009195	0.002107683	0.005901512	0.009610882	0.002529179	0.007081702	0.005479319	0.001441926	0.004037393	0.005092319	0.001340084	0.003752235	0.00381326	0.00100349	0.002809771
2009	230.5	0.14	0.014416	0.003793803	0.01062265	0.008009195	0.002107683	0.005901512	0.009610882	0.002529179	0.007081702	0.005479319	0.001441926	0.004037393	0.005092319	0.001340084	0.003752235	0.00381326	0.00100349	0.002809771
2009	50.2	0.12	0.012357	0.003251831	0.00910513	0.006865024	0.001806585	0.005058439	0.008237898	0.002167868	0.00607003	0.00469656	0.001235937	0.003460623	0.004364845	0.001148643	0.003216202	0.003268509	0.000860134	0.002408375
2009	236.5	0.11	0.011327	0.002980845	0.00834637	0.006292939	0.001656037	0.004636902	0.007551407	0.001987212	0.005564195	0.00430518	0.001132942	0.003172238	0.004001108	0.001052923	0.002948185	0.002996133	0.000788456	0.002207677
2009	323.1	0.11	0.011327	0.002980845	0.00834637	0.006292939	0.001656037	0.004636902	0.007551407	0.001987212	0.005564195	0.00430518	0.001132942	0.003172238	0.004001108	0.001052923	0.002948185	0.002996133	0.000788456	0.002207677
2009	54.8	0.10	0.010297	0.002709859	0.00758761	0.005720854	0.001505488	0.004215366	0.006864915	0.001806557	0.005058359	0.0039138	0.001029947	0.002883852	0.003637371	0.000957203	0.002680168	0.002723757	0.000716778	0.002006979
2009	78.8	0.10	0.010297	0.002709859	0.00758761	0.005720854	0.001505488	0.004215366	0.006864915	0.001806557	0.005058359	0.0039138	0.001029947	0.002883852	0.003637371	0.000957203	0.002680168	0.002723757	0.000716778	0.002006979

				FY 11										FY 12								
				Anacostia			Rock Creek			Potomac				Anacostia			Rock Creek			Potomac		
Year	Day	Precipitation	Original Runoff from 56k sf	Runoff from retrofitted 56k sf	Difference Retained	Original Runoff from 31k sf	Runoff from retrofitted 31k sf	Difference Retained	Original Runoff from 37k sf	Runoff from retrofitted 37k sf	Difference Retained	Original Runoff from 21k sf		Runoff from Retrofitted 21k sf	Difference Retained	Original Runoff from 20k sf	Runoff from Retrofitted 20k	Difference Retained	Original Runoff from 14k sf	Runoff from Retrofitted 14k sf	Difference Retained	
2009	193.0	0.10	0.010297	0.002709859	0.00758761	0.005720854	0.001505488	0.004215366	0.006864915	0.001806557	0.005058359	0.0039138		0.001029947	0.002883852	0.003637371	0.000957203	0.002680168	0.002723757	0.000716778	0.002006979	
2009	335.4	0.10	0.010297	0.002709859	0.00758761	0.005720854	0.001505488	0.004215366	0.006864915	0.001806557	0.005058359	0.0039138		0.001029947	0.002883852	0.003637371	0.000957203	0.002680168	0.002723757	0.000716778	0.002006979	
2009	186.8	0.09	0.009268	0.002438873	0.00682884	0.005148768	0.001354939	0.003793829	0.006178424	0.001625901	0.004552523	0.00352242		0.000926953	0.002595467	0.003273634	0.000861483	0.002412151	0.002451382	0.0006451	0.001806281	
2009	63.8	0.08	0.008238	0.002167887	0.00607008	0.004576683	0.00120439	0.003372293	0.005491932	0.001445245	0.004046687	0.00313104		0.000823958	0.002307082	0.002909897	0.000765762	0.002144135	0.002179006	0.000573423	0.001605583	
2009	178.8	0.07	0.007208	0.001896901	0.00531132	0.004004598	0.001053841	0.002950756	0.004805441	0.00126459	0.003540851	0.00273966		0.000720963	0.002018697	0.00254616	0.000670042	0.001876118	0.00190663	0.000501745	0.001404885	
2009	355.5	0.07	0.007208	0.001896901	0.00531132	0.004004598	0.001053841	0.002950756	0.004805441	0.00126459	0.003540851	0.00273966		0.000720963	0.002018697	0.00254616	0.000670042	0.001876118	0.00190663	0.000501745	0.001404885	
2009	119.5	0.06	0.006178	0.001625915	0.00455256	0.003432512	0.000903293	0.00252922	0.004118949	0.001083934	0.003035015	0.00234828		0.000617968	0.001730311	0.002182423	0.000574322	0.001608101	0.001634254	0.000430067	0.001204187	
2009	182.9	0.06	0.006178	0.001625915	0.00455256	0.003432512	0.000903293	0.00252922	0.004118949	0.001083934	0.003035015	0.00234828		0.000617968	0.001730311	0.002182423	0.000574322	0.001608101	0.001634254	0.000430067	0.001204187	
2009	126.3	0.05	0.005149	0.001354929	0.0037938	0.002860427	0.000752744	0.002107683	0.003432458	0.000903278	0.002529179	0.0019569		0.000514974	0.001441926	0.001818686	0.000478601	0.001340084	0.001361879	0.000358389	0.00100349	
2009	150.8	0.05	0.005149	0.001354929	0.0037938	0.002860427	0.000752744	0.002107683	0.003432458	0.000903278	0.002529179	0.0019569		0.000514974	0.001441926	0.001818686	0.000478601	0.001340084	0.001361879	0.000358389	0.00100349	
2009	204.9	0.05	0.005149	0.001354929	0.0037938	0.002860427	0.000752744	0.002107683	0.003432458	0.000903278	0.002529179	0.0019569		0.000514974	0.001441926	0.001818686	0.000478601	0.001340084	0.001361879	0.000358389	0.00100349	
2009	165.4	0.03	0.003089	0.000812958	0.00227628	0.001716256	0.000451646	0.00126461	0.002059475	0.000541967	0.001517508	0.00117414		0.000308984	0.000865156	0.001091211	0.000287161	0.00080405	0.000817127	0.000215033	0.000602094	
2009	311.5	0.03	0.003089	0.000812958	0.00227628	0.001716256	0.000451646	0.00126461	0.002059475	0.000541967	0.001517508	0.00117414		0.000308984	0.000865156	0.001091211	0.000287161	0.00080405	0.000817127	0.000215033	0.000602094	
2009	10.2	0.02	0.002059	0.000541972	0.00151752	0.001144171	0.000301098	0.000843073	0.001372983	0.000361311	0.001011672	0.00078276		0.000205989	0.00057677	0.000727474	0.000191441	0.000536034	0.000544751	0.000143356	0.000401396	
2009	241.5	0.01	0.00103	0.000270986	0.00075876	0.000572085	0.000150549	0.000421537	0.000686492	0.000180656	0.000505836	0.00039138		0.000102995	0.000288385	0.000363737	9.57203E-05	0.000268017	0.000272376	7.16778E-05	0.000200698	
2009	280.8	0.01	0.00103	0.000270986	0.00075876	0.000572085	0.000150549	0.000421537	0.000686492	0.000180656	0.000505836	0.00039138		0.000102995	0.000288385	0.000363737	9.57203E-05	0.000268017	0.000272376	7.16778E-05	0.000200698	
2009																						
			Annual Total Vol. (ac. ft)	4.171502645	1.097763854	3.073738791	2.31751783	0.609873113	1.707644717	2.780977222	0.731836111	2.049141111		1.585480223	0.417231638	1.168248586	1.47349901	0.387762897	1.085736113	1.103394108	0.29036687	0.81302724
			Annual Total Vol. (gal)	1,359,290.11	357,707.92	**1,001,582.19**	755,166.50	198,728.03	**556,438.48**	906,185.41	238,469.84	**667,715.57**		516,631.00	135,955.53	**380,675.47**	480,141.76	126,353.10	**353,788.67**	359,542.55	94,616.46	**264,926.09**

NOTES:

P = storm event in inches

RvI = .95 (runoff coefficient for impervious cover)

RvC = 0.25 (runoff coefficient for compacted cover)

RvN = .05 (runoff coefficient for natural cover)

%I = percent of site in impervious cover

%C = percent of site in compacted cover

%N = percent of site in natural cover

SA = site area, in acres

*Site run-off is calculated in acre feet as [P × [(RvI × %I) + (RvC × %C) + (RvN × %N)] × SA]/12

Appendix D District Green Roof Installation Volume Retention Calculations

Green Roof Retrofit Reductions

Load Reductions (pounds/yr)

Year	Watershed	Sq. Ft.	Acres	Volume Retained (gallons)	Fecal Coliform	TN	TP	TSS	Cu	Pb	Zn
FY11	Rock Creek	5,080	0.1	**192,538.25**	2.25E+09	0.12	0.05	11.64	2.22E-02	1.17E-02	3.62E-02
FY11	Anacostia	28,777	0.7	**1,090,683.73**	1.28E+10	0.70	0.29	65.95	1.26E-01	6.61E-02	2.05E-01
FY11	Potomac	30,216	0.7	**1,145,223.60**	1.34E+10	0.74	0.31	69.25	1.32E-01	6.94E-02	2.15E-01
FY12	Rock Creek	1,780	0.0	**67,464.19**	7.89E+08	0.04	0.02	4.08	7.76E-03	4.09E-03	1.27E-02
FY12	Anacostia	28,330	0.7	**1,073,741.88**	1.26E+10	0.69	0.29	64.93	1.24E-01	6.50E-02	2.02E-01
FY12	Potomac	19,027	0.4	**721,146.73**	8.43E+09	0.46	0.19	43.61	8.30E-02	4.37E-02	1.35E-01
	FY 11 Total	64073	1.5	**2,428,446**	2.84E+10	1.56	0.65	146.84	0.28	0.15	0.46
	FY12 Total	49137	1.1	**1,862,353**	2.18E+10	1.20	0.50	112.61	0.21	0.11	0.35

				FY 11						FY12					
				Anacostia		Rock Creek		Potomac		Anacostia		Rock Creek		Potomac	
year		day	Prcp	Original Runoff from 44k sf	Runoff retained per event by 1.0" roof capacity	Original Runoff from 16k sf	Runoff retained per event by 1.0" roof capacity	Original Runoff from 9k sf	Runoff retained per event by 1.0" roof capacity	Original Runoff from 68k sf	Runoff retained per event by 1.0" roof capacity	Original Runoff from 30k sf	Runoff retained per event by 1.0" roof capacity	Original Runoff from 7k sf	Runoff retained per event by 1.0" roof capacity
2009		131.2	4.09	0.213905787	0.052299703	0.03776076	0.00923246	0.224602192	0.054914961	0.210583138	0.05148732	0.013231133	0.003234996	0.141431887	0.034579923
2009		39.5	2.17	0.113490357	0.052299703	0.020034438	0.00923246	0.119165466	0.054914961	0.111727484	0.05148732	0.007019941	0.003234996	0.075038434	0.034579923
2009		69.9	2.13	0.111398368	0.052299703	0.019665139	0.00923246	0.116968868	0.054914961	0.109667991	0.05148732	0.006890541	0.003234996	0.073655237	0.034579923
2009		105.5	1.95	0.101984422	0.052299703	0.018003296	0.00923246	0.107084174	0.054914961	0.100400273	0.05148732	0.006308242	0.003234996	0.067430851	0.034579923
2009		271.5	1.89	0.09884644	0.052299703	0.017449349	0.00923246	0.103789277	0.054914961	0.097311034	0.05148732	0.006114142	0.003234996	0.065356055	0.034579923
2009		290.6	1.86	0.097277448	0.052299703	0.017172375	0.00923246	0.102141828	0.054914961	0.095766415	0.05148732	0.006017092	0.003234996	0.064318658	0.034579923
2009		223.7	1.82	0.09518546	0.052299703	0.016803077	0.00923246	0.09994523	0.054914961	0.093706922	0.05148732	0.005887692	0.003234996	0.062935461	0.034579923
2009		6.2	1.80	0.094139466	0.052299703	0.016618428	0.00923246	0.09884693	0.054914961	0.092677176	0.05148732	0.005822992	0.003234996	0.062243862	0.034579923
2009		200.9	1.80	0.094139466	0.052299703	0.016618428	0.00923246	0.09884693	0.054914961	0.092677176	0.05148732	0.005822992	0.003234996	0.062243862	0.034579923
2009		360.2	1.36	0.071127597	0.052299703	0.012556145	0.00923246	0.074684347	0.054914961	0.070022755	0.05148732	0.004399594	0.003234996	0.047028696	0.034579923
2009		219.2	1.32	0.069035609	0.052299703	0.012186847	0.00923246	0.072487749	0.054914961	0.067963262	0.05148732	0.004270194	0.003234996	0.045645499	0.034579923
2009		258.8	1.32	0.069035609	0.052299703	0.012186847	0.00923246	0.072487749	0.054914961	0.067963262	0.05148732	0.004270194	0.003234996	0.045645499	0.034579923
2009		135.0	1.30	0.067989615	0.052299703	0.012002198	0.00923246	0.07138945	0.054914961	0.066933516	0.05148732	0.004205494	0.003234996	0.044953901	0.034579923
2009		95.8	1.28	0.06694362	0.052299703	0.011817548	0.00923246	0.07029115	0.054914961	0.065903769	0.05148732	0.004140795	0.003234996	0.044262302	0.034579923
2009		14.3	1.08	0.05648368	0.052299703	0.009971057	0.00923246	0.059308158	0.054914961	0.055606305	0.05148732	0.003493795	0.003234996	0.037346317	0.034579923
2009		369.7	1.04	0.054391692	0.052299703	0.009601758	0.00923246	0.05711156	0.054914961	0.053546813	0.05148732	0.003364396	0.003234996	0.03596312	0.034579923
2009		285.5	0.87	0.045500742	0.052299703	0.00803224	0.00923246	0.047776016	0.054914961	0.044793968	0.05148732	0.002814446	0.003234996	0.030084533	0.034579923
2009		58.0	0.86	0.044977745	0.052299703	0.007939915	0.00923246	0.047226867	0.054914961	0.044279095	0.05148732	0.002782096	0.003234996	0.029738734	0.034579923
2009		144.3	0.70	0.036609792	0.052299703	0.006462722	0.00923246	0.038440473	0.054914961	0.036041124	0.05148732	0.002264497	0.003234996	0.024205946	0.034579923
2009		28.5	0.63	0.032948813	0.052299703	0.00581645	0.00923246	0.034596426	0.054914961	0.032437011	0.05148732	0.002038047	0.003234996	0.021785352	0.034579923
2009		33.7	0.62	0.032425816	0.052299703	0.005724125	0.00923246	0.034047276	0.054914961	0.031922138	0.05148732	0.002005697	0.003234996	0.021439553	0.034579923
2009		141.3	0.57	0.029810831	0.052299703	0.005262502	0.00923246	0.031301528	0.054914961	0.029347772	0.05148732	0.001843948	0.003234996	0.019710556	0.034579923
2009		168.9	0.54	0.02824184	0.052299703	0.004985528	0.00923246	0.029654079	0.054914961	0.027803153	0.05148732	0.001746898	0.003234996	0.018673159	0.034579923
2009		42.7	0.53	0.027718843	0.052299703	0.004893204	0.00923246	0.029104929	0.054914961	0.027288279	0.05148732	0.001714548	0.003234996	0.018327359	0.034579923
2009		319.1	0.49	0.025626855	0.052299703	0.004523905	0.00923246	0.026908331	0.054914961	0.025228787	0.05148732	0.001585148	0.003234996	0.016944163	0.034579923
2009		246.8	0.48	0.025103858	0.052299703	0.004431581	0.00923246	0.026359181	0.054914961	0.024713913	0.05148732	0.001552798	0.003234996	0.016598363	0.034579923
2009		339.9	0.47	0.024580861	0.052299703	0.004339256	0.00923246	0.025810032	0.054914961	0.02419904	0.05148732	0.001520448	0.003234996	0.016252564	0.034579923
2009		265.7	0.46	0.024057864	0.052299703	0.004246931	0.00923246	0.025260882	0.054914961	0.023684167	0.05148732	0.001488098	0.003234996	0.015906765	0.034579923
2009		111.8	0.39	0.020396884	0.052299703	0.003600659	0.00923246	0.021416835	0.054914961	0.020080055	0.05148732	0.001261648	0.003234996	0.01348617	0.034579923
2009		0.9	0.36	0.018827893	0.052299703	0.003323686	0.00923246	0.019769386	0.054914961	0.018535435	0.05148732	0.001164598	0.003234996	0.012448772	0.034579923
2009		347.2	0.34	0.017781899	0.052299703	0.003139036	0.00923246	0.018671087	0.054914961	0.017505689	0.05148732	0.00109899	0.003234996	0.011757174	0.034579923
2009		82.8	0.33	0.017258902	0.052299703	0.003046712	0.00923246	0.018121937	0.054914961	0.016990816	0.05148732	0.001067549	0.003234996	0.011411375	0.034579923
2009		274.2	0.32	0.016735905	0.052299703	0.002954387	0.00923246	0.017572788	0.054914961	0.016475942	0.05148732	0.001035199	0.003234996	0.011065576	0.034579923

				FY 11						FY12					
				Anacostia		Rock Creek		Potomac		Anacostia		Rock Creek		Potomac	
year		day	Prcp	Original Runoff from 44k sf	Runoff retained per event by 1.0" roof capacity	Original Runoff from 16k sf	Runoff retained per event by 1.0" roof capacity	Original Runoff from 9k sf	Runoff retained per event by 1.0" roof capacity	Original Runoff from 68k sf	Runoff retained per event by 1.0" roof capacity	Original Runoff from 30k sf	Runoff retained per event by 1.0" roof capacity	Original Runoff from 7k sf	Runoff retained per event by 1.0" roof capacity
2009		351.4	0.32	0.016735905	0.052299703	0.002954387	0.00923246	0.017572788	0.054914961	0.016475942	0.05148732	0.001035199	0.003234996	0.011065576	0.034579923
2009		262.2	0.30	0.015689911	0.052299703	0.002769738	0.00923246	0.016474488	0.054914961	0.015446196	0.05148732	0.000970499	0.003234996	0.010373977	0.034579923
2009		75.2	0.21	0.010982938	0.052299703	0.001938817	0.00923246	0.011532142	0.054914961	0.010812337	0.05148732	0.000679349	0.003234996	0.007261784	0.034579923
2009		89.9	0.17	0.00889095	0.052299703	0.001569518	0.00923246	0.009335543	0.054914961	0.008752844	0.05148732	0.000549949	0.003234996	0.005878587	0.034579923
2009		174.5	0.17	0.00889095	0.052299703	0.001569518	0.00923246	0.009335543	0.054914961	0.008752844	0.05148732	0.000549949	0.003234996	0.005878587	0.034579923
2009		20.3	0.16	0.008367953	0.052299703	0.001477194	0.00923246	0.008786394	0.054914961	0.008237971	0.05148732	0.000517599	0.003234996	0.005532788	0.034579923
2009		295.4	0.16	0.008367953	0.052299703	0.001477194	0.00923246	0.008786394	0.054914961	0.008237971	0.05148732	0.000517599	0.003234996	0.005532788	0.034579923
2009		331.3	0.15	0.007844956	0.052299703	0.001384869	0.00923246	0.008237244	0.054914961	0.007723098	0.05148732	0.000485249	0.003234996	0.005186989	0.034579923
2009		101.8	0.14	0.007321958	0.052299703	0.001292544	0.00923246	0.007688095	0.054914961	0.007208225	0.05148732	0.000452899	0.003234996	0.004841189	0.034579923
2009		230.5	0.14	0.007321958	0.052299703	0.001292544	0.00923246	0.007688095	0.054914961	0.007208225	0.05148732	0.000452899	0.003234996	0.004841189	0.034579923
2009		50.2	0.12	0.006275964	0.052299703	0.001107895	0.00923246	0.006589795	0.054914961	0.006178478	0.05148732	0.000388199	0.003234996	0.004149591	0.034579923
2009		236.5	0.11	0.005752967	0.052299703	0.001015571	0.00923246	0.006040646	0.054914961	0.005663605	0.05148732	0.00035585	0.003234996	0.003803792	0.034579923
2009		323.1	0.11	0.005752967	0.052299703	0.001015571	0.00923246	0.006040646	0.054914961	0.005663605	0.05148732	0.00035585	0.003234996	0.003803792	0.034579923
2009		54.8	0.10	0.00522997	0.052299703	0.000923246	0.00923246	0.005491496	0.054914961	0.005148732	0.05148732	0.0003235	0.003234996	0.003457992	0.034579923
2009		78.8	0.10	0.00522997	0.052299703	0.000923246	0.00923246	0.005491496	0.054914961	0.005148732	0.05148732	0.0003235	0.003234996	0.003457992	0.034579923
2009		193.0	0.10	0.00522997	0.052299703	0.000923246	0.00923246	0.005491496	0.054914961	0.005148732	0.05148732	0.0003235	0.003234996	0.003457992	0.034579923
2009		335.4	0.10	0.00522997	0.052299703	0.000923246	0.00923246	0.005491496	0.054914961	0.005148732	0.05148732	0.0003235	0.003234996	0.003457992	0.034579923
2009		186.8	0.09	0.004706973	0.052299703	0.000830921	0.00923246	0.004942347	0.054914961	0.004633859	0.05148732	0.00029115	0.003234996	0.003112193	0.034579923
2009		63.8	0.08	0.004183976	0.052299703	0.000738597	0.00923246	0.004393197	0.054914961	0.004118986	0.05148732	0.0002588	0.003234996	0.002766394	0.034579923
2009		178.8	0.07	0.003660979	0.052299703	0.000646272	0.00923246	0.003844047	0.054914961	0.003604112	0.05148732	0.00022645	0.003234996	0.002420595	0.034579923
2009		355.5	0.07	0.003660979	0.052299703	0.000646272	0.00923246	0.003844047	0.054914961	0.003604112	0.05148732	0.00022645	0.003234996	0.002420595	0.034579923
2009		119.5	0.06	0.003137982	0.052299703	0.000553948	0.00923246	0.003294898	0.054914961	0.003089239	0.05148732	0.0001941	0.003234996	0.002074795	0.034579923
2009		182.9	0.06	0.003137982	0.052299703	0.000553948	0.00923246	0.003294898	0.054914961	0.003089239	0.05148732	0.0001941	0.003234996	0.002074795	0.034579923
2009		126.3	0.05	0.002614985	0.052299703	0.000461623	0.00923246	0.002745748	0.054914961	0.002574366	0.05148732	0.00016175	0.003234996	0.001728996	0.034579923
2009		150.8	0.05	0.002614985	0.052299703	0.000461623	0.00923246	0.002745748	0.054914961	0.002574366	0.05148732	0.00016175	0.003234996	0.001728996	0.034579923
2009		204.9	0.05	0.002614985	0.052299703	0.000461623	0.00923246	0.002745748	0.054914961	0.002574366	0.05148732	0.00016175	0.003234996	0.001728996	0.034579923
2009		165.4	0.03	0.001568991	0.052299703	0.000276974	0.00923246	0.001647449	0.054914961	0.00154462	0.05148732	9.70499E-05	0.003234996	0.001037398	0.034579923
2009		311.5	0.03	0.001568991	0.052299703	0.000276974	0.00923246	0.001647449	0.054914961	0.00154462	0.05148732	9.70499E-05	0.003234996	0.001037398	0.034579923
2009		10.2	0.02	0.001045994	0.052299703	0.000184649	0.00923246	0.001098299	0.054914961	0.001029746	0.05148732	6.46999E-05	0.003234996	0.000691598	0.034579923
2009		241.5	0.01	0.000522997	0.052299703	9.23246E-05	0.00923246	0.00054915	0.054914961	0.000514873	0.05148732	3.235E-05	0.003234996	0.000345799	0.034579923
2009		280.8	0.01	0.000522997	0.052299703	9.23246E-05	0.00923246	0.00054915	0.054914961	0.000514873	0.05148732	3.235E-05	0.003234996	0.000345799	0.034579923
2009															
Annual Total Vol. (ac. ft)					3.347181024		0.590877423		3.514557522		3.295188463		0.207039727		2.213115104
Annual Total Vol. (gal)					**1,090,683.73**		**192,538.25**		**1,145,223.60**		**1,073,741.88**		**67,464.19**		**721,146.73**

Notes:
Green roof calculations assume a 4" roof depth and 0.25 porosity for all roofs, for an assumed 1" retention capacity
Amount of runoff retained by 0.5" of SMP applied to retrofitted area

*Site run-off is calculated in acre feet as [P × [(RvI × %I) + (RvC × %C) + (RvN × %N)] × SA]/12
P = storm event in inches
RvI = .95 (runoff coefficient for impervious cover)
RvC = 0.25 (runoff coefficient for compacted cover)
RvN = .05 (runoff coefficient for natural cover)

				FY 11						FY12					
				Anacostia		Rock Creek		Potomac		Anacostia		Rock Creek		Potomac	
year		day	Prcp	Original Runoff from 44k sf	Runoff retained per event by 1.0" roof capacity	Original Runoff from 16k sf	Runoff retained per event by 1.0" roof capacity	Original Runoff from 9k sf	Runoff retained per event by 1.0" roof capacity	Original Runoff from 68k sf	Runoff retained per event by 1.0" roof capacity	Original Runoff from 30k sf	Runoff retained per event by 1.0" roof capacity	Original Runoff from 7k sf	Runoff retained per event by 1.0" roof capacity

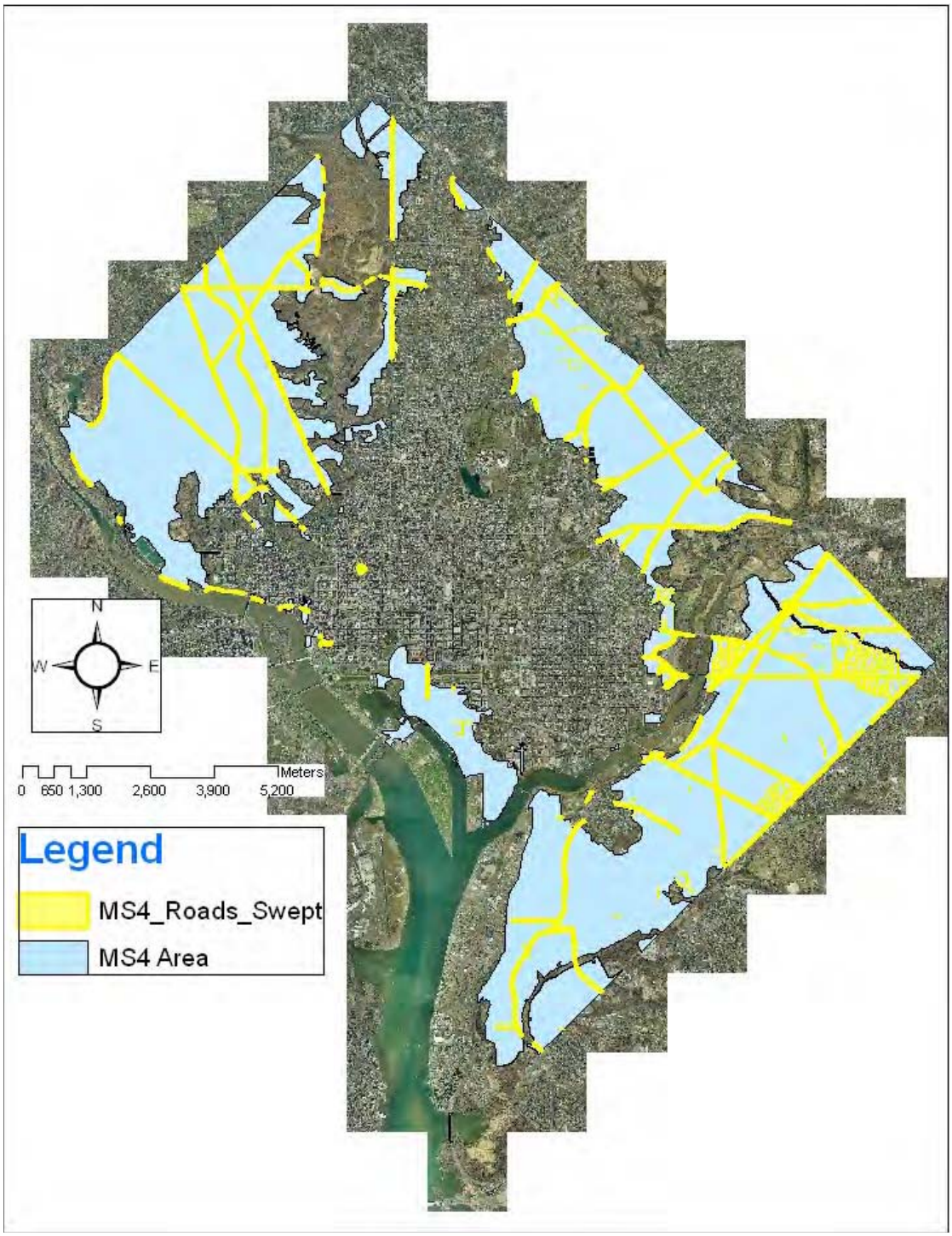
%I = percent of site in impervious cover

%C = percent of site in compacted cover

%N = percent of site in natural cover

SA = site area, in acres

Appendix E Current Streets Swept by District Department of Public Works in the MS4 Area



Appendix F District Facilities Listed Under CERCLA or Having an NPDES Permit

NPDES ID	Permit Name
DC0000019	Washington Aqueduct - Dalecarlia Plant
DC0000094	PEPCO Environment Management Services
DC0000221	The Government of the District of Columbia-DDOE
DC0021199	DC Water (Blue Plains)
DC0022004	Mirant Potomac River L.L.C.
DC0000035	GSA-NCR HOTD (Central Heating Plant)
DC0000141	CMDT Naval District Washington DC
DC0000175	Super Concrete Corporation
DC0000248	JFK Center For Performing Arts
DC0000337	Washington Metropolitan Area Transit Authority
DC0000345	World War II Memorial

Appendix G List of Water Quality Division Illicit Discharge Investigations

FY 2011		
Location	Watershed	Issue
5338 East Capitol St. NE	Anacostia	Discharge of oil onto the street
4301 Nannie Helen Burroughs Ave. NE	Anacostia	Discharge of sewage from a manhole overflow to the storm drain
1503 11th St. NW	Anacostia (CSO)	Discharge of concrete slur into a sewer system
4100 Hunt Pl. NE	Anacostia	Discharging of oil
4601 MLK Jr. Ave. SE	Potomac	Discharging of medical waste from hospital sink drain leading to the river
1050 Water St. SW	Anacostia	Illicit discharge of sanitary to the river
11th and V St. NW	Anacostia (CSO)	Oily substance leaking from the top of a manhole into the street
49th St. and Division Ave. NE (Flippo Construction)	Anacostia	Sediment Discharge to Watts Branch
2929 Martin Luther King Jr. Ave. SE	Anacostia	Sewage discharge from property
300 Rittenhouse St. NE	CSO	Light greenish colored water discharging from the traffic pole
Corner of Kanawha and Chevy Chase Cir. NW		Discharge of wash water to storm sewer system
30th St. Bridge NW (C&O Canal)	Potomac	
1600 Pennsylvania Ave. NW	Potomac	Diesel Discharge of 50 gallons
5125 Warren Pl. NW	Rock Creek	Discharge of a bright green liquid to Mills Creek
936 French St. NW	Anacostia (CSO)	Sewage backup into home
National Arboretum	Anacostia	Discharge of effluent from radial crack of 51 inch pipe
4900 Bates Rd. NE	Anacostia	Discharge of hydraulic fluid to concrete lot
4400 Broad Branch Rd. NW	Rock Creek	Sinkhole at Broad Branch Road
Suitland Pkwy. and Southern Ave.	Anacostia	Sewage Overflow
748 Hilltop Terr. SE	Anacostia	Black oil substance bubbling from ground in backyard
Watts Branch	Anacostia	Sediments Discharge
1002 First St. SE	Anacostia	Fluid discharge from garage
4300 Anacostia Ave. NE (Kenilworth-Parkside Recreation Center)	Anacostia	Sewage discharge to storm sewer
50th St. and 50th Pl. NW - Outfall 1016 (Mill Creek)	Rock Creek	Suspected illicit discharge from outfall 1016
Springhouse Rd., and New York Ave. NE (National Arboretum)	Anacostia	Possible Sewage Leak to Springhouse Run
3824 Legation St. NW	Rock Creek	Inquiry into discharging water buildup in crawl space
Garfield St. and New Mexico Ave. NW	Rock Creek	Complaint of long standing contamination to

FY 2011		
Location	Watershed	Issue
		outfall
National Arboretum (near maintenance yard)	Anacostia	Discharge of muddy water to Springhouse Run
Quebec St. and 49th St. NW	Potomac	Sewer line break in Spring Valley Stream
49th St. and Nannie Hellen Burroughs Ave. NE	Anacostia	Discharge of sewage from abandoned line into Watts Stream Bed
National Arboretum_15-inch pipe	Anacostia	Release of sewage to an unnamed tributary of Hickey Run
1400 North Royal St. Alexandria, VA (PEPCO)	Potomac	Oil sheen at the Potomac River
1050 Water St. SW - Fish Cleaning House	Anacostia	Discharge of waste from the Fish Cleaning House
3598 Hayes St. NE (Paradise at Parkside)	Anacostia	Sewage overflow
100 T St. NW	Potomac	Discharge of sewage from Porta potty to storm sewer
Watts Branch , 49th St. and Nannie Hellen Burroughs Ave. NE	Anacostia	Presence of the bright green liquid in Watts Branch
5321 Colorado Ave. NW	Rock Creek (CSO)	Discharge of cooking grease to back alley
16th St. and Alaska Ave. NW (Walter Reed Medical Center)	Rock Creek	Discharge of 5 gallons to storm sewer of Walter Reed
3504 13th St. NW	Rock Creek (CSO)	Sewage overflow
4309 Wisconsin Ave. NW	Rock Creek	Odor from drainage
931 M St. NW	CSO	Discharge of paint substance to the sorm drain
National Arboretum (MH 11)	Anacostia	Sewage Odor
2715 22nd St. NE	Anacostia	Discharge water from the basement into the storm drainage system
417-419 37th Pl. SE	Anacostia	Clogged Drainage Hole
4002 E St., SE	Anacostia	Basement of building flooded with oil and water
3727 Yuma St. NW	Rock Creek	Discharge of transformer oil to street
229 Valley Ave. SE (Oxon Run SSO)	Anacostia	Sanitary sewer overflow to Oxon Run
1700 Benning Rd. NE	Anacostia (CSO)	Discharge of detergent water to street drain
4474 McArthur Blvd. NW	Potomac	Heating oil leaks from rusted tank

FY 2012		
Location	Watershed	Issue
1310 Southern Ave. SE (United Medical Center)	Anacostia	Chlorinated water discharge
National Arboretum	Anacostia	Main water breaks
3625 Tilden St. NW	Rock Creek	Discharge of swimming pool water to backyard
1400 North Royal St. Alexandria, VA (GenOn)*	Potomac	Oil sheen present on the Potomac River
C&O Canal	Potomac	
30th Street and Normanstone Dr. NW	Rock Creek	Complaint about sewage smell and gray substances flowing in the water
Daniel Ln. NW	Rock Creek	Dangerous condition on Daniel Lane, NW
Anacostia Ave. and Hayes St. SE	Anacostia	Tributary concerns of Kenilworth Park
Normanstone Dr. and 30th St. NW	Rock Creek	Milky gray substance flowing in the water
Oregon Ave. and Daniel Ln. NW	Rock Creek	Dangerous condition on Daniel Ln., NW
Anacostia Ave. and Hayes St. SE	Anacostia	Tributary of concern near Kenilworth Park
429 N St, SW	Potomac	Discharge of rug cleaning water to storm sewer system
1310 Southern Ave. SE (United Medical Center)	Anacostia	Sediment discharge to Oxon Run
3106 Georgia Ave. NW	Rock Creek (CSO)	Wash water discharge from laundry to back alley
2804 Channing St. NE	Anacostia	
61st St. and East Capitol St. NE	Anacostia	Sediment Discharge to Watts Branch
4602 Kenilworth Ave. NE	Anacostia	Illegal Dumping
4109 Foots St. NE	Anacostia	Discharge of sewage
30th St. and Normanstone Dr. NW	Rock Creek	
4200 Connecticut Ave. NW - UDC	Rock Creek	Discharge of hydraulic fluid from shredder truck
Lawrence Ave. NE (Rodgers Brothers Service, Inc.)*	Anacostia	Discharge of sediment laden water into storm sewer system
4313 20th St. NE	Anacostia	Dumping motor oil
1320 H St. NE	Anacostia	Discharge of concrete to catch basin
1327 W St. NE	Anacostia	Discharge of Paint to Storm Sewer System
H and 8th St. NE	Anacostia (CSO)	Dumping of cooking oil on private property
Washington Ship Channel	Potomac	Fish Kill
1701 Foxhall Rd. NW	Rock Creek	Swimming pool discharge
Back Alley of 800 5th St. NE	Anacostia	Discharge of a gas and Liquid to an alley
Blue Plains Treatment Plant	Potomac	Heavy form scum on Potomac River

FY 2012		
Location	Watershed	Issue
850 Delaware Ave., SW (DC Unity Healthcare Center)	CSO	Unknown chemical storage tank connected to drinking water system
East Capitol St. and Southern Ave. NE	Anacostia	Sediment discharge from MD to DC Watts Branch
South Capitol Bridge	Anacostia	South Capitol Street Environmental Investigation
1433 P St. NW (Stoney's Restaurant)	Potomac (CSO)	Washing of the roof and AC unit into the alley
3 DC Village Ln. SW (Monumental Concrete)*	Potomac	Hazardous materials being improperly stored
2750 32nd St. NW	Rock Creek	Concrete discharge into storm sewer
3010-D Rhode Island Ave. NE	Anacostia	Illegal toilet connection to MS4
2701 Martin Luther King Jr. Ave. SE (St. Elizabeth's West Campus)*	Anacostia	Potential illicit discharge from construction site

* Incidents - There four cases still under ongoing investigation for FY 2012. All other cases have been resolved.

Appendix H Stormwater Management Education and Outreach Materials

IT'S THE LAW!

Pick up after your dog.

Fines $150-$2,000

**Dog waste transmits diseases,
attracts rats, kills grass, and pollutes waterways.
Use a bag to pick up your dog's waste and
then dispose of it in a trash can.**

GOVERNMENT OF THE
DISTRICT OF COLUMBIA

5¢ Bag Fee

It's the law and it's working to reduce pollution.

Over 75% of District residents have reduced their use of disposable bags.

District businesses that sell food or alcohol must charge 5 cents for each disposable paper or plastic bag.

For information on how the Bag Law funds are utilized to protect the District's waters, please go to green.dc.gov/bags

DISTRICT DEPARTMENT OF THE ENVIRONMENT
green forward

COAL TAR PAVEMENT PRODUCTS BANNED

— Effective July 1, 2009 —

In the District it is illegal to sell, use, or permit to be used on your property coal-tar pavement products, subject to a daily fine of $2,500.

Coal tar pavement products, used to seal parking lots and driveways, contain highly toxic polycyclic aromatic hydrocarbons (PAHs). PAHs are suspected to cause cancer—children and pregnant women are at the highest risk—and pollute our waterways. Do not use products with ingredients that include the words "coal," "tar," "refined coal tar pitch," or "RT-12."

Scan for info

For more information, please visit:

ddoe.dc.gov/coaltarban

DISTRICT DEPARTMENT OF THE ENVIRONMENT

Appendix I Volunteer Clean-Up Data Sheet

Site Information				Trash Weight Estimated						
				Sorted (lbs)					Gross (lbs)	Methodology for Estimating Weight Collected
Entity	Date	Location	Sewershed	Bottles & Cans	Styrofoam	Plastic Bags	Tires	Big Ticket Items		
e.g., AFF, AWS										
								Total Annual Load Reduced (lbs)		

Appendix J FY 2011 House Hold Hazardous Waste Collection

Date	Propane (55 gal)	Fire Extinguisher (55 gal)	Aerosols (55 gal)	Aerosols (cubic yds)	Bulk Flammable Liquids (55 gal)	Bulk Paint (55 gal)	Lab Pack Flammable Liquids (cubic yds)	Flammable Solid (5 gal)	Flammable Solids (55 gal)	Oxidizing (55 gal)	Pesticide Liquids (55 gal)	Pesticide Solid (55 gal)	Toxic Waste (55 gal)	Corrosive-Acidic (55 gal)	Corrosive-Basic (55 gal)	Corrosive-Basic (cubic yds)	Waste Mercury (55 gal)	Waste Mercury (5 gal)	Motor Oil (55 gal)	Anti-Freeze (55 gal)	Asbestos (55 gal)	Asbestos (cubic yds)	Light Bulbs (55 gal)	Light Bulbs (LN ft)	Car Batteries (no.)	Propane Tanks (no.)
10/04/10	1	1	1	0	3	0	5	0	0	1	2	2	0	1	2	0	0	0	1	1	1	0	0	175	0	0
11/06/10	8	1	1	0	10	0	12	0	1	1	5	5	0	4	8	1	0	2	3	2	4	0	0	600	13	0
12/04/10	1	1	0	1	7	0	11	0	1	2	5	5	2	4	4	1	0	1	5	2	3	0	0	700	5	15
01/08/11	2	1	0	1	3	0	9	0	1	2	2	2	1	2	2	1	1	0	2	2	0	0	0	300	0	0
02/07/11	1	1	0	1	7	0	5	0	0	1	4	4	0	1	4	0	0	1	2	1	0	0	0	300	0	0
03/07/11	1	1	0	1	5	0	10	1	0	1	4	4	1	2	6	0	0	2	2	1	4	1	0	1040	0	0
04/05/11	0	0	0	1	2	0	6	0	0	0	2	2	0	1	5	0	0	0	3	1	0	1	0	560	0	0
05/09/11	1	1	0	1	3	0	6	0	0	0	2	2	1	0	4	1	0	1	4	1	0	0	0	800	19	7
06/06/11	1	1	4	1	5	0	10	0	1	2	2	3	0	2	3	1	0	0	6	2	2	0	0	1050	0	0
08/08/11	1	1	3	0	12	0	14	0	1	1	2	3	1	2	7	0	0	1	5	2	1	0	0	0	0	0
09/06/11	1	1	5	0	2	3	18	0	3	1	2	2	0	1	4	0	0	0	2	3	4	0	3	0	0	0
Total number of units	18	10	14	7	59	3	106	1	8	12	32	34	6	20	49	5	1	8	35	18	19	2	3	5525	37	22
Total volume	990	550	770	7	3245	165	106	5	440	660	1760	1870	330	1100	2695	5	55	40	1925	990	1045	2	165	N/A	N/A	N/A

Appendix K Locations of Water Quality Monitoring Stations

Stickfoot Sewer

Site 1 (M10A)

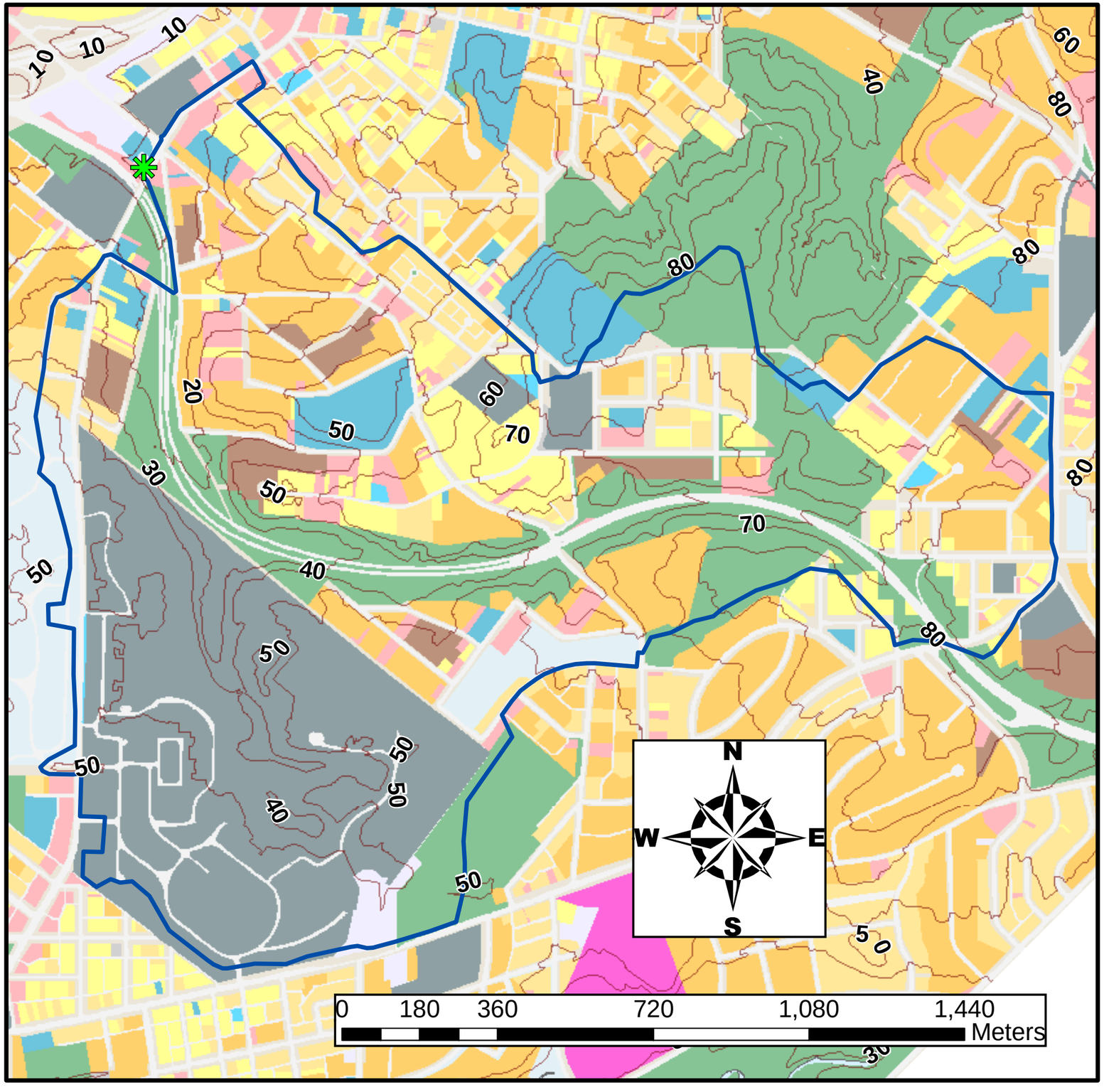
Legend

- Water Quality Monitoring Sites
- Water Quality Monitoring Sites Drainage Area
- 10m Topo

Existing Land Use

Land Use Designation

- Low Density Residential
- Low-Medium Density Residential
- Medium Density Residential
- High Density Residential
- Commercial
- Transport, Communication, Utilities
- Industrial
- Mixed Use
- Institutional
- Federal Public
- Local Public
- Public, Quasi-Public, Institutional
- Parks and Open Spaces
- Parking
- Roads; Alleys; Median
- Transportation Right of Way
- Undetermined
- Water



O St Stormwater Pump Station

Site 2 (M11A)

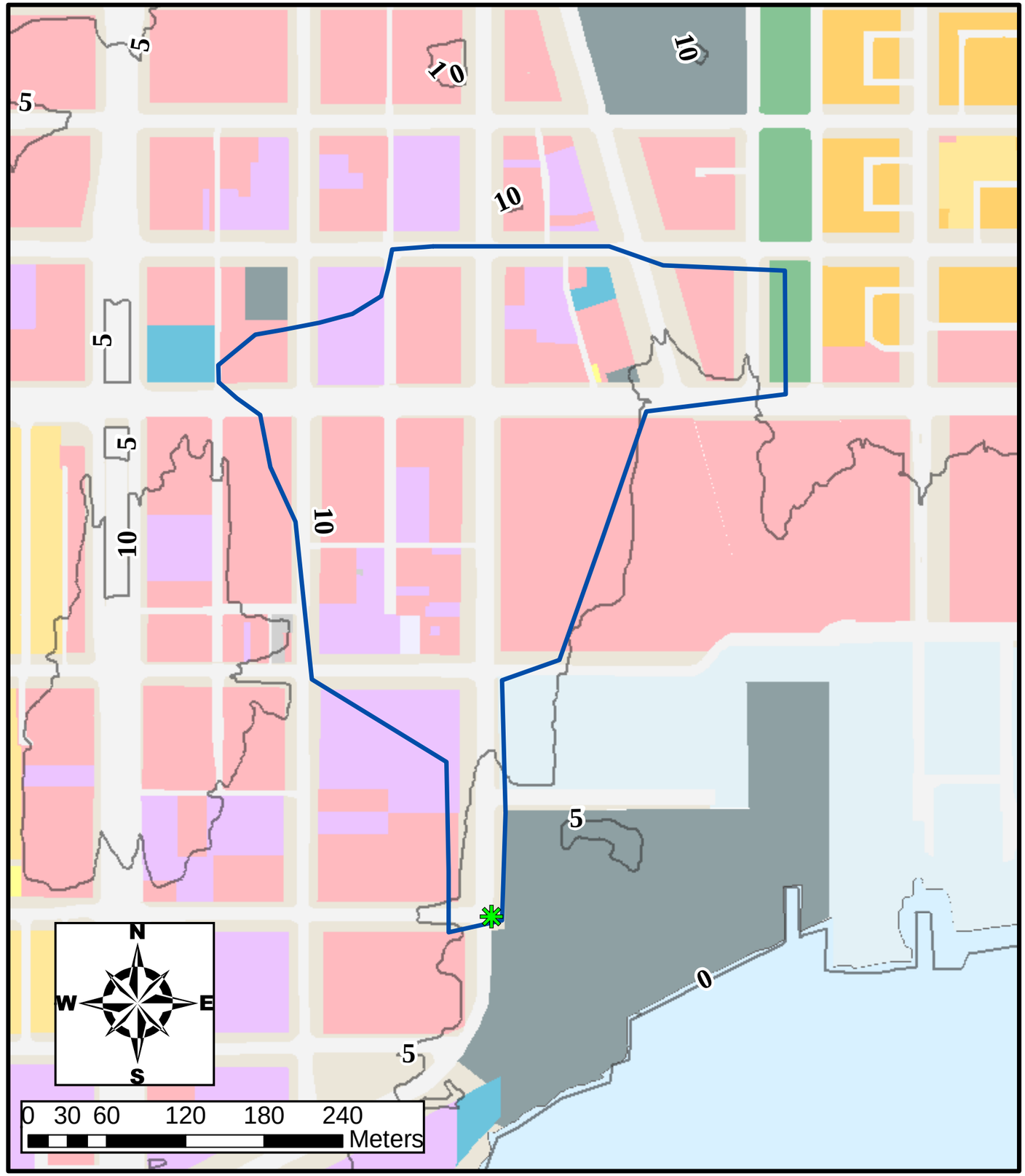
Legend

- Water Quality Monitoring Sites
- Water Quality Monitoring Sites Drainage Area
- 5m Topo Lines

Existing Land Use

Land Use Designation

- Low Density Residential
- Low-Medium Density Residential
- Medium Density Residential
- High Density Residential
- Commercial
- Transport, Communication, Utilities
- Industrial
- Mixed Use
- Institutional
- Federal Public
- Local Public
- Public, Quasi-Public, Institutional
- Parks and Open Spaces
- Parking
- Roads; Alleys; Median
- Transportation Right of Way
- Undetermined
- Water



Anacostia High School

Site 3 (M12A)

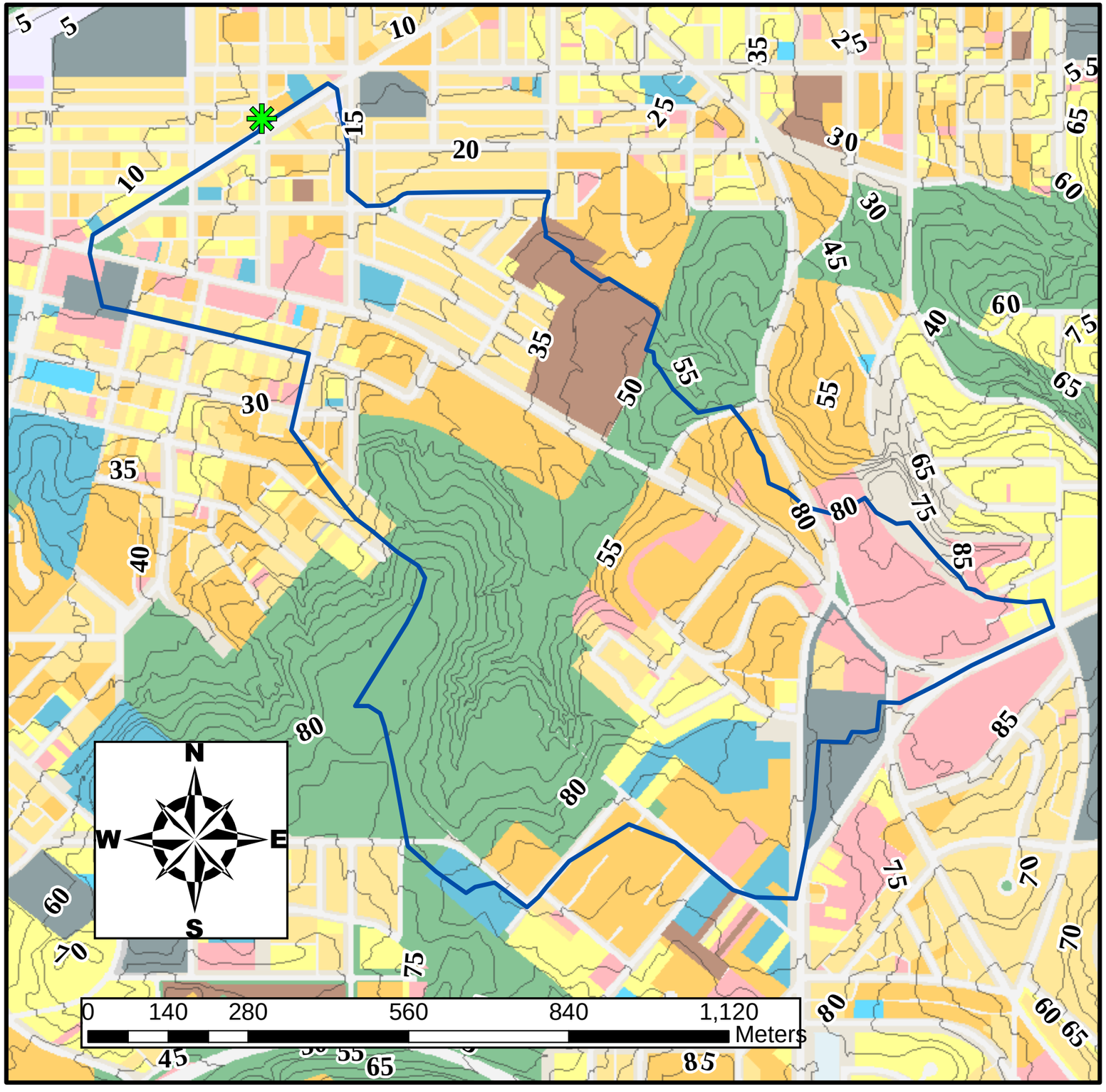
Legend

- Water Quality Monitoring Sites
- Water Quality Monitoring Sites Drainage Area
- 5m Topo Lines

Existing Land Use

Land Use Designation

- Low Density Residential
- Low-Medium Density Residential
- Medium Density Residential
- High Density Residential
- Commercial
- Transport, Communication, Utilities
- Industrial
- Mixed Use
- Institutional
- Federal Public
- Local Public
- Public, Quasi-Public, Institutional
- Parks and Open Spaces
- Parking
- Roads; Alleys; Median
- Transportation Right of Way
- Undetermined
- Water



Gallatin & 14th St NE

Site 4 (M13A)

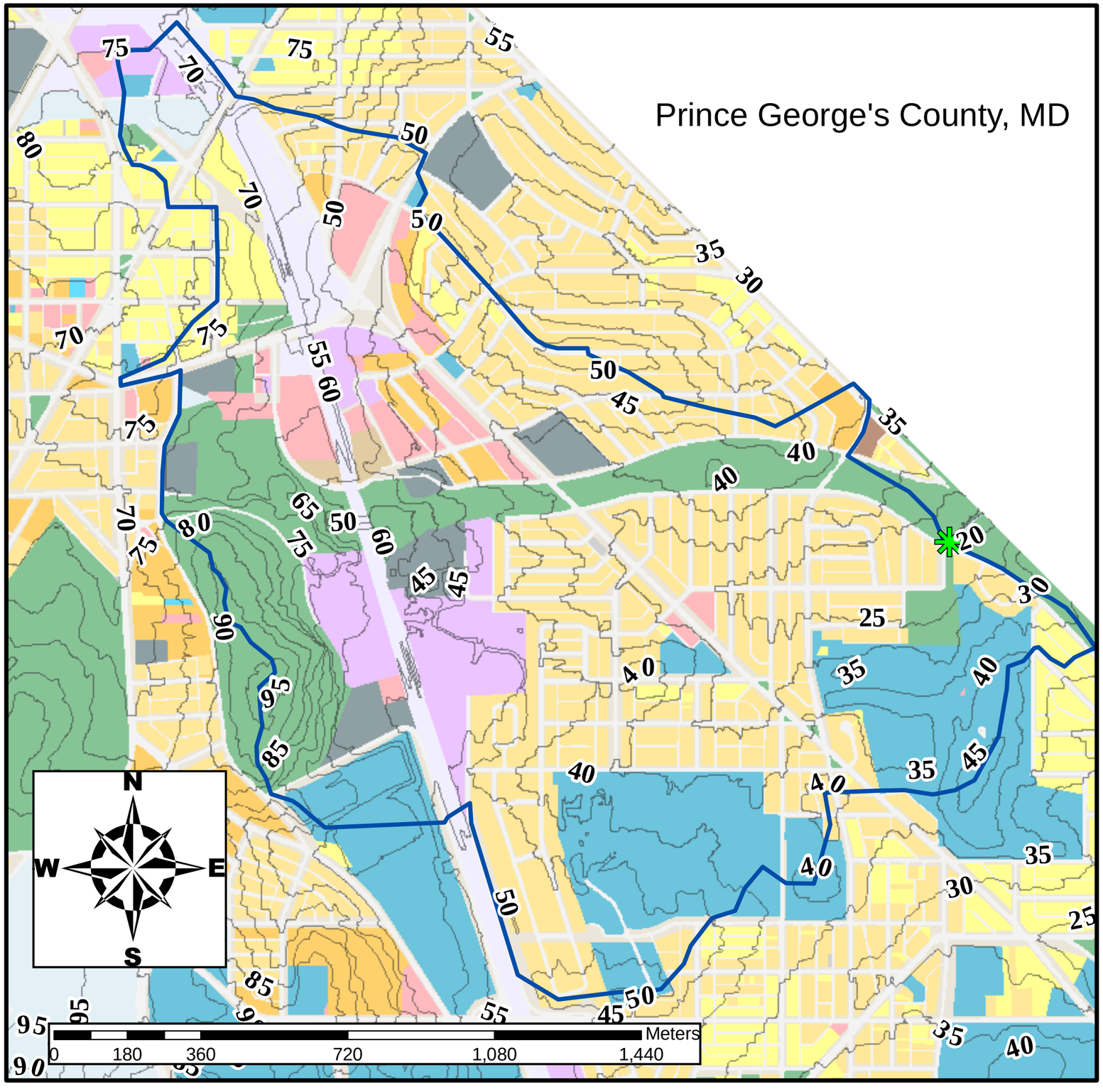
Legend

- Water Quality Monitoring Sites
- Water Quality Monitoring Sites Drainage Area
- 5m Topo Lines

Existing Land Use

Land Use Designation

- Low Density Residential
- Low-Medium Density Residential
- Medium Density Residential
- High Density Residential
- Commercial
- Transport, Communication, Utilities
- Industrial
- Mixed Use
- Institutional
- Federal Public
- Local Public
- Public, Quasi-Public, Institutional
- Parks and Open Spaces
- Parking
- Roads; Alleys; Median
- Transportation Right of Way
- Undetermined
- Water



Varnum and 19th Pl NE

Site 5 (M14A)

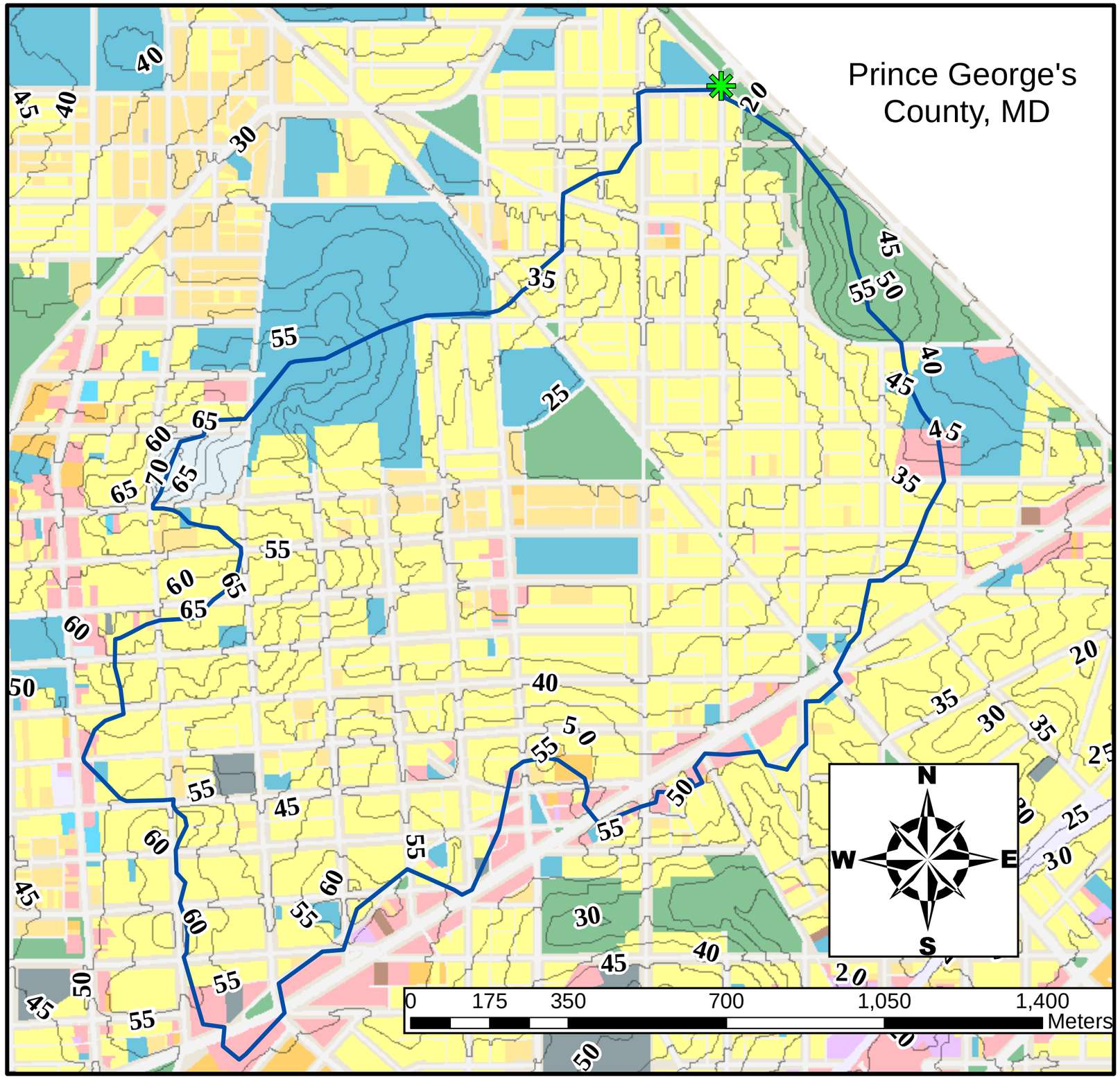
Legend

- Water Quality Monitoring Sites
- Water Quality Monitoring Sites Drainage Area
- 5m Topo Lines

Existing Land Use

Land Use Designation

- Low Density Residential
- Low-Medium Density Residential
- Medium Density Residential
- High Density Residential
- Commercial
- Transport, Communication, Utilities
- Industrial
- Mixed Use
- Institutional
- Federal Public
- Local Public
- Public, Quasi-Public, Institutional
- Parks and Open Spaces
- Parking
- Roads; Alleys; Median
- Transportation Right of Way
- Undetermined
- Water



Nash Run

Site 6 (M15A)

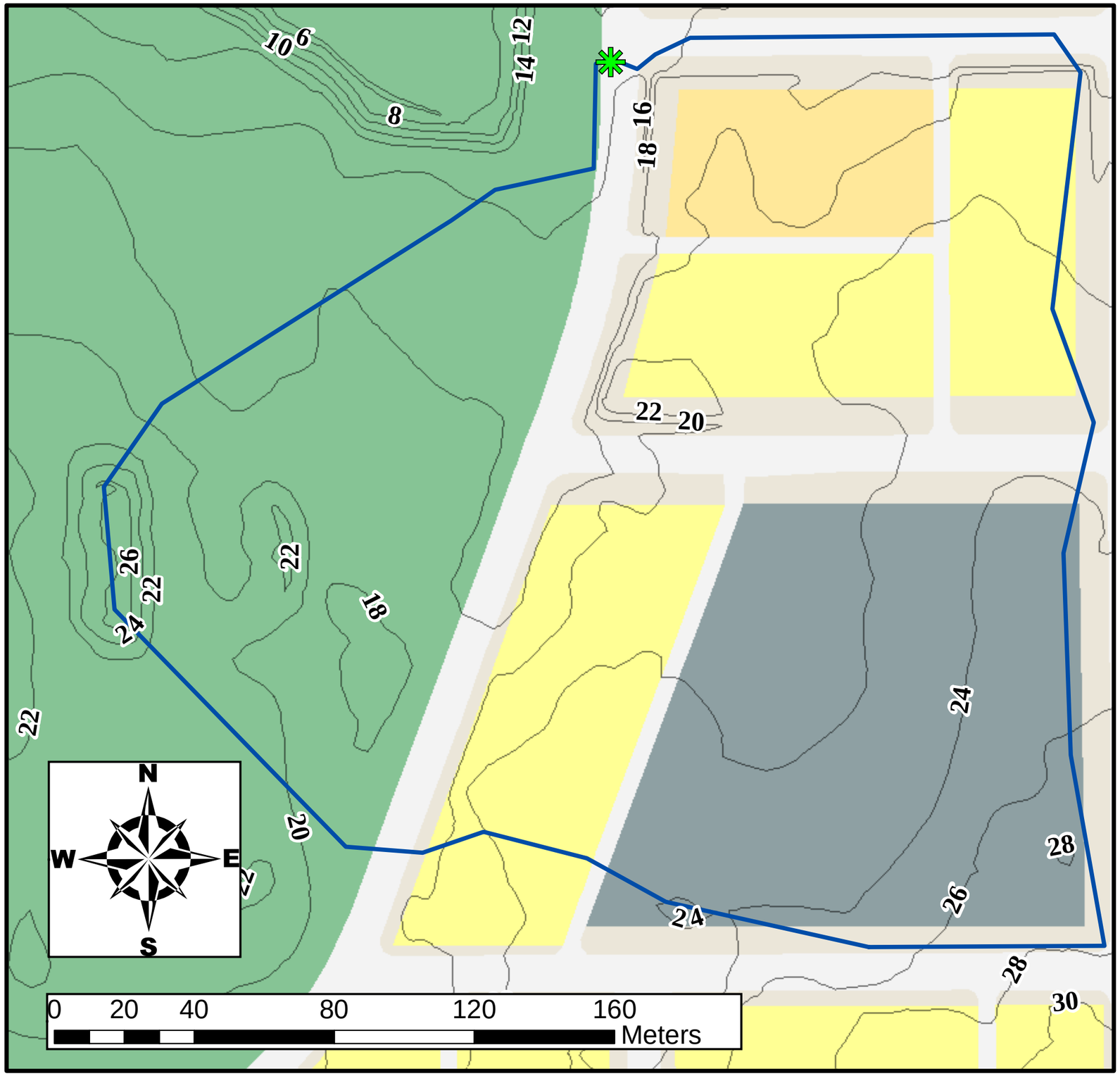
Legend

- Water Quality Monitoring Sites
- Water Quality Monitoring Sites Drainage Area
- 1m Topo

Existing Land Use

Land Use Designation

- Low Density Residential
- Low-Medium Density Residential
- Medium Density Residential
- High Density Residential
- Commercial
- Transport, Communication, Utilities
- Industrial
- Mixed Use
- Institutional
- Federal Public
- Local Public
- Public, Quasi-Public, Institutional
- Parks and Open Spaces
- Parking
- Roads; Alleys; Median
- Transportation Right of Way
- Undetermined
- Water



East Capitol St.

Site 7 (MS7A)

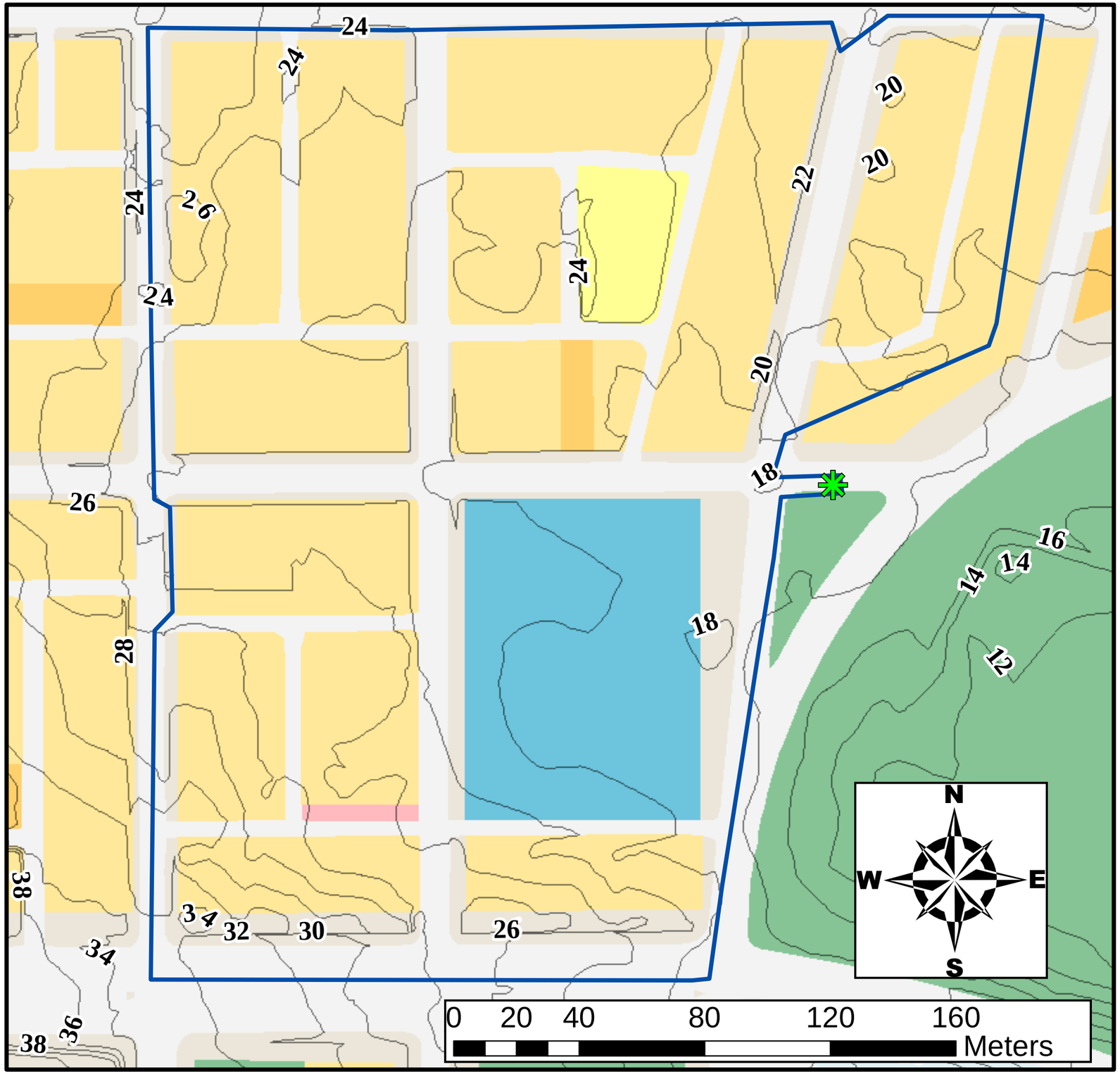
Legend

- Water Quality Monitoring Sites
- Water Quality Monitoring Sites Drainage Area
- 1m Topo

Existing Land Use

Land Use Designation

- Low Density Residential
- Low-Medium Density Residential
- Medium Density Residential
- High Density Residential
- Commercial
- Transport, Communication, Utilities
- Industrial
- Mixed Use
- Institutional
- Federal Public
- Local Public
- Public, Quasi-Public, Institutional
- Parks and Open Spaces
- Parking
- Roads; Alleys; Median
- Transportation Right of Way
- Undetermined
- Water



Ft. Lincoln - Newton BMP

Site 8 (MS8A)

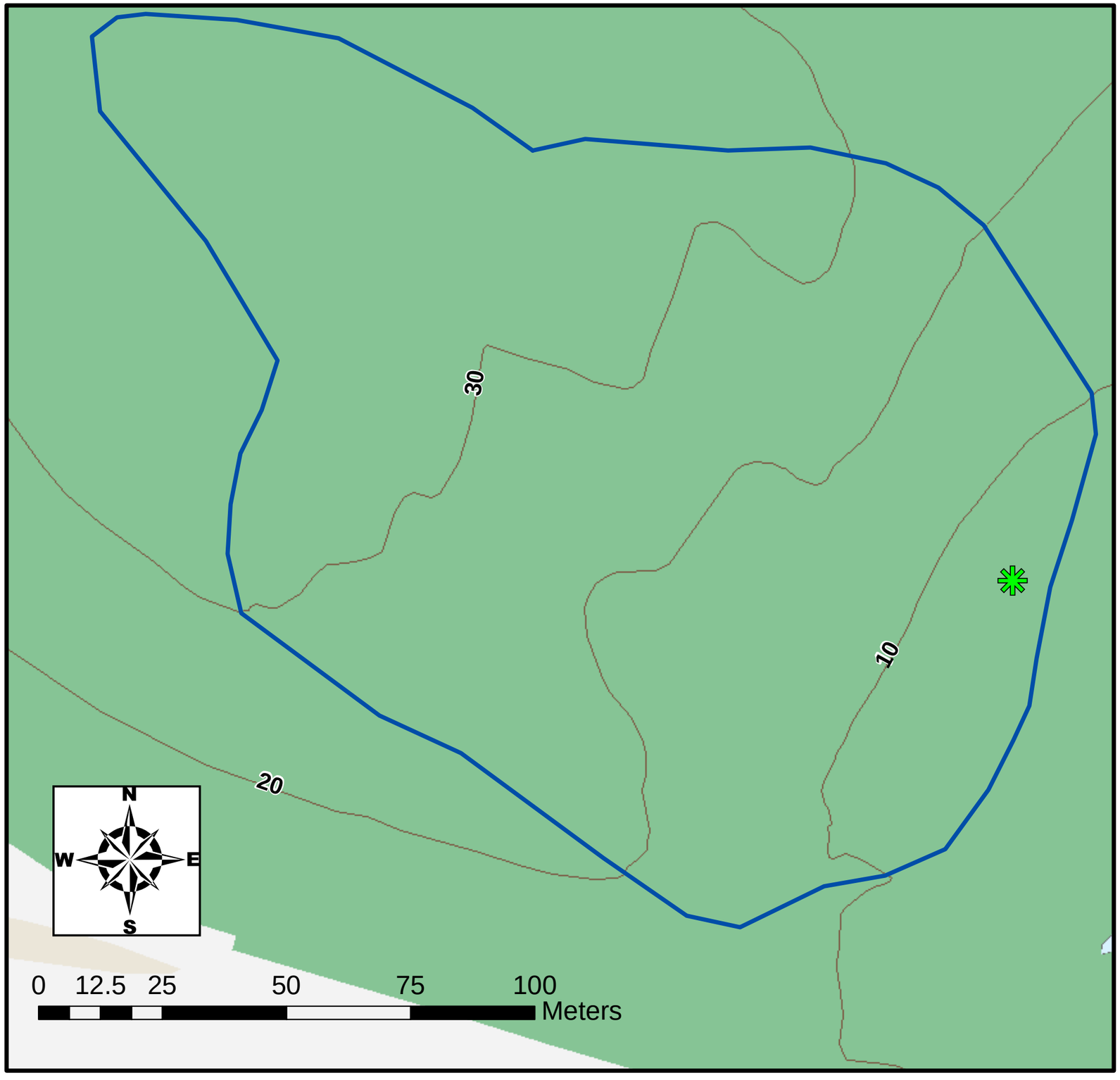
Legend

- Water Quality Monitoring Sites
- Water Quality Monitoring Sites Drainage Area
- 10m Topo

Existing Land Use

Land Use Designation

- Low Density Residential
- Low-Medium Density Residential
- Medium Density Residential
- High Density Residential
- Commercial
- Transport, Communication, Utilities
- Industrial
- Mixed Use
- Institutional
- Federal Public
- Local Public
- Public, Quasi-Public, Institutional
- Parks and Open Spaces
- Parking
- Roads; Alleys; Median
- Transportation Right of Way
- Undetermined
- Water



Hickey Run

Site 9 (MS9A)

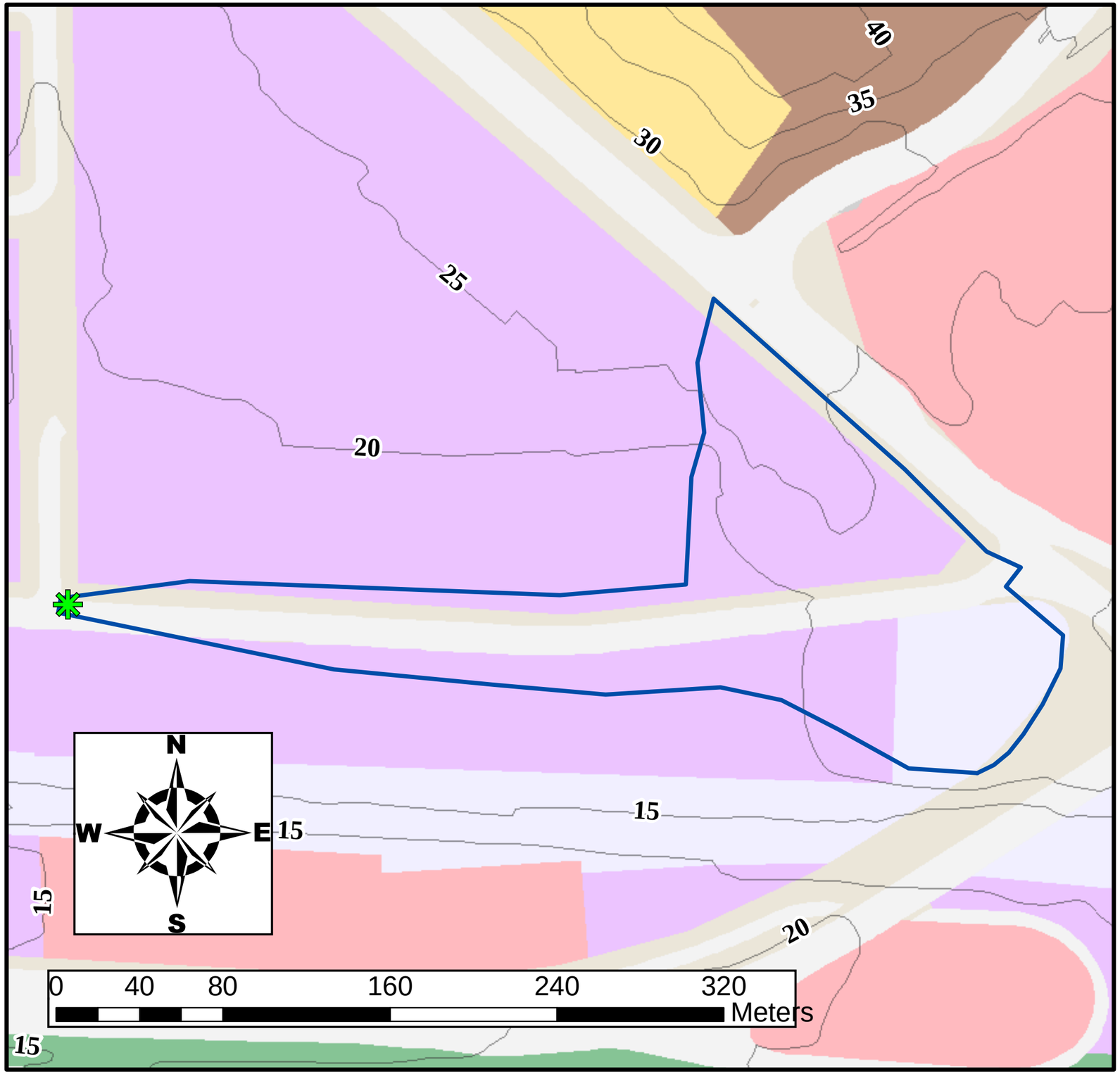
Legend

- Water Quality Monitoring Sites
- Water Quality Monitoring Sites Drainage Area
- 5m Topo Lines

Existing Land Use

Land Use Designation

- Low Density Residential
- Low-Medium Density Residential
- Medium Density Residential
- High Density Residential
- Commercial
- Transport, Communication, Utilities
- Industrial
- Mixed Use
- Institutional
- Federal Public
- Local Public
- Public, Quasi-Public, Institutional
- Parks and Open Spaces
- Parking
- Roads; Alleys; Median
- Transportation Right of Way
- Undetermined
- Water



Appendix L Discharge Monitoring Report and Sampling Analysis

		Stickfoot Sewer			O Street Stormwater Pump Station			Anacostia High School			Gallatin & 14th St., NE			Varnum and 19th Pl., NE			Nash Run			East Capitol St.			Ft. Lincoln-Newton BMP			Hickey Run		
Parameter	**Units**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**
1,1,1-Trichloroethane	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,1,2,2-Tetrachloroethane	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,1,2-Trichloroethane	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,1-Dichloroethane	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,1-Dichloroethene (1,1-Dichloroethylene)	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,2,4-Trichlorobenzene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,2-Dichlorobenzene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,2-Dichloroethane	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,2-Dichloropropane	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,2-Diphenylhydrazine	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,2-Trans-Dichloroethylene (Trance-1,2-Dichloroethane)	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,3-Dichlorobenzene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,3-Dichloropropylene (trans-1,3-Dichloropropylene)	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,4-Dichlorobenzene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
2,3,7,8-TCDD (Dioxin)	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
2,4,6-Trichlorophenol	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
2,4-Dichlorophenol	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
2,4-Dimethylphenol	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
2,4-Dinitrophenol	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
2,4-Dinitrotoluene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
2,6-Dinitrotoluene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
2-Chloroethyl Vinyl Ether	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
2-Chloronaphthalene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
2-Chlorophenol	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
2-Nitrophenol	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
3,3´-Dichlorobenzidine	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
3,4-Benzofluoranthene (Benzo[b]fluoranthene)	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
4,6-Dinitro-o-Crestol (4,6-Dinitro-2-methylphenol)	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
4-Bromophenyl-phenylether	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
4-Chlorophenyl-phenylether	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
4-Nitrophenol	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Acenaphthene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Acenaphthylene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Acrolein	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND

		Stickfoot Sewer			O Street Stormwater Pump Station			Anacostia High School			Gallatin & 14th St., NE			Varnum and 19th Pl., NE			Nash Run			East Capitol St.			Ft. Lincoln-Newton BMP			Hickey Run		
Parameter	**Units**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**
Acrylonitrile	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Aldrin	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Alpha-BHC	µg/L	BRL	ND	0.22	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Anthracene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Antimony	mg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Aroclor 1016 (PCB 1016)	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Aroclor 1221 (PCB 1221)	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Aroclor 1232 (PCB 1232)	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Aroclor 1242 (PCB 1242)	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Aroclor 1248 (PCB 1248)	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Aroclor 1254 (PCB 1254)	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Aroclor 1260 (PCB 1260)	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Arsenic	mg/L	0.0034	ND	ND	BRL	0.0033	ND	0.0022	0.0021	ND	ND	0.0029	0.0026	ND	ND	0.0020	ND	ND	ND	0.0026	0.0048	0.0030	NSF	NSF	0.0037	ND	BRL	ND
Benzene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Benzidine	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Benzo(a)anthracene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Benzo[a]pyrene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Benzo[g,h,i]perylene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Benzo[k]fluoranthene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Beryllium	mg/L	0.0016	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	0.0023	ND	BRL	ND
Beta-BHC	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Bis(2-Chloroethoxy)methane	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Bis(2-Chloroethyl)ether	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Bis(2-chloroisopropyl)ether	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Bis(2-Ethylhexyl)phthalate	µg/L	BRL	ND	34	BRL	ND	6.5	16	44	ND	ND	ND	11	66	27	29	20	5.2	9.1	ND	BRL	ND	NSF	NSF	ND	7.0	BRL	ND
BOD	mg/L	74	40	87	19	16	9.7	18	10	4.1	6.2	30	15	58	29	17	45	57	14	7.3	35	21	NSF	NSF	22	4.5	4.7	7.5
Bromodichloromethane (Dichlorobromomethane)	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Bromoform	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Bromomethane (Methyl bromide)	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Butylbenzylphthalate	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Cadmium	mg/L	0.00062	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	0.00094	ND	ND	ND	ND	ND	ND	0.0014	0.00088	0.00086	NSF	NSF	ND	ND	BRL	ND
Carbon Tetrachloride	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Chlordane (Technical Chlordane)	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Chlorobenzene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Chloroethane	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Chloroform	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Chloromethane (Methyl chloride)	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Chlorophyll a	mg/m³	41	ND	8.22	8.2	ND	6.17	ND	3.85	3.50	ND	6.2	4.1	ND	6.46	3.75	ND	ND	11.8	6.2	32.8	6.36	NSF	NSF	ND	5.0	1.80	ND

		Stickfoot Sewer			O Street Stormwater Pump Station			Anacostia High School			Gallatin & 14th St., NE			Varnum and 19th Pl., NE			Nash Run			East Capitol St.			Ft. Lincoln-Newton BMP			Hickey Run		
Parameter	**Units**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**
Chromium	mg/L	0.024	0.0034	0.0082	0.0027	ND	ND	0.0040	0.0024	ND	0.0023	0.0038	0.020	0.0033	ND	ND	0.0033	0.0035	ND	0.0028	0.0095	0.0033	NSF	NSF	0.047	ND	BRL	ND
Chrysene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
cis-1,3-Dichloropropylene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
COD, Total	mg/L	72	86	200	59	32	30	46	37	15	38	110	30	130	60	43	110	92	19	31	49	30	NSF	NSF	16	20	27	17
Copper	mg/L	0.072	0.020	0.042	0.039	0.078	0.045	0.092	0.022	0.013	0.013	0.034	0.020	0.059	0.019	0.010	0.082	0.11	0.022	0.015	0.023	0.016	NSF	NSF	0.049	0.0062	0.0061	0.011
Cyanide, Total	mg/L	BRL	ND	0.24	BRL	ND	ND	ND	ND	ND	0.0084	ND	ND	0.0079	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	0.016	0.025	BRL	ND
delta-BHC	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Dibenz[a,h]anthracene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Dibromochloromethane (Chlorodibromomethane)	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Dieldrin	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Diethylphthalate	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Dimethylphthalate	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Di-n-butylphthalate	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Di-n-octylphthalate	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Endosulfan I (Alpha-endosulfan)	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Endosulfan II (Beta-endosulfan)	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Endosulfan Sulfate	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Endrin	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Endrin Aldehyde	µg/L	BRL	ND	ND	BRL	0.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Ethylbenzene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Fecal Coliforms	MPN/100 mL	>1600	1600	>160,000	>1600	>1600	>160,000	30000	ND	>1600	160000	5000	240	7000	>16000	2000	24000	1600	7000	>16000	>16000	8000	NSF	NSF	>1600	130	300	1300
Fecal Streptococcus	MPN/100 mL	>1600	>1600	>160,000	>1600	>1600	1100	24000	5000	ND	28000	1700	>1600	160000	>16000	22000	17000	>1600	30000	16000	>16000	50000	NSF	NSF	>1600	230	5000	17000
Fluoranthene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Fluorene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
gamma-BHC	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Hardness (As $CaCO_3$)	mg CaCO3/L	100	130	120	110	150	120	74	26	160	98	190	110	220	63	35	170	39	17	190	110	110	NSF	NSF	110	28	19	39
Heptachlor	µg/L	BRL	ND	0.31	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Heptachlor epoxide	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Hexachlorobenzene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Hexachlorobutadiene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Hexachlorocyclopentadiene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Hexachloroethane	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Indeno[1,2,3-cd]pyrene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Isophorone	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Lead	mg/L	0.058	0.0062	0.018	0.0050	0.0014	0.0033	0.0070	0.0085	0.0048	ND	0.010	0.0076	0.012	0.0086	0.0056	0.0063	0.0067	0.0019	0.012	0.035	0.012	NSF	NSF	0.057	0.0030	0.0016	0.0039

		Stickfoot Sewer			O Street Stormwater Pump Station			Anacostia High School			Gallatin & 14th St., NE			Varnum and 19th Pl., NE			Nash Run			East Capitol St.			Ft. Lincoln-Newton BMP			Hickey Run		
Parameter	**Units**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**
Mercury	mg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Methylene Chloride	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Naphthalene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Nickel	mg/L	0.023	0.0089	0.013	BRL	ND	ND	0.0063	ND	0.011	ND	0.017	0.013	0.012	ND	ND	ND	ND	ND	0.033	0.027	0.019	NSF	NSF	0.023	ND	BRL	ND
Nitrate/Nitrite as N	mg/L	0.31	0.14	ND	0.20	1.2	ND	ND	ND	1.2	ND	2.7	1.3	0.058	ND	ND	ND	0.10	ND	3.3	BRL	0.065	NSF	NSF	ND	ND	0.14	0.087
Nitrobenzene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Nitrogen, Total	mg/L	2.8	6.0	8.4	2.4	3.8	4.2	3.4	1.4	3.7	1.4	6.0	3.6	4.8	2.0	ND	2.5	3.7	13	4.5	2.0	ND	NSF	NSF	5.3	ND	2.9	ND
N-Nitrosodimethylamine	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
N-Nitroso-di-n-propylamine	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
N-Nitrosodiphenylamine	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Oil & Grease	mg/L	BRL	ND	34	BRL	ND	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
p,p'-DDD	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
p,p'-DDE	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
p,p'-DDT	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
p-Chloro-m-Crestol (4-Chloro-3-methylphenol)	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Pentachlorophenol	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Phenanthrene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Phenol	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Phenolics, Total Recoverable	mg/L	0.016	ND	0.096	0.026	ND	ND	0.011	ND	ND	0.022	0.081	ND	0.030	ND	0.011	0.043	ND	ND	0.078	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Phosphorus, Dissolved (As P)	mg/L	0.13	0.13	0.43	0.13	0.075	0.30	0.060	ND	0.11	0.15	0.10	ND	0.68	ND	ND	0.38	ND	0.24	0.022	BRL	ND	NSF	NSF	ND	0.025	BRL	ND
Phosphorus, Total (As P)	mg/L	0.63	0.38	0.92	0.15	0.48	0.46	0.41	0.16	0.16	0.20	0.39	0.53	0.92	0.42	0.25	0.44	0.46	0.26	0.41	0.42	0.28	NSF	NSF	1.1	0.025	0.068	0.071
Pyrene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Selenium	mg/L	BRL	ND	ND	BRL	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Silver	mg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Tetrachloroethene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND	210	120	66	NSF	NSF	ND	ND	BRL	ND
Thallium	mg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Toluene	µg/L	BRL	ND	1.5	BRL	ND	ND	ND	ND	ND	ND	1.3	ND	1.7	ND	ND	ND	ND	ND	ND	BRL	8.1	NSF	NSF	ND	ND	BRL	ND
Total Dissolved Solids	mg/L	150	530	200	220	480	310	190	64	2000	390	530	430	480	140	100	120	120	46	500	260	240	NSF	NSF	1300	65	110	63
Total Kjeldahl Nitrogen	mg/L	2.5	5.9	8.4	2.2	2.5	4.2	3.4	1.4	2.5	1.4	3.4	2.2	4.8	2.0	ND	2.5	3.6	13	1.1	2.0	ND	NSF	NSF	5.3	ND	2.8	ND
Total Organic Carbon	mg/L	8.5	16	18	12	10	8.4	20	5.3	10	9.9	30	11	45	22	12	36	25	15	5.2	8.0	13	NSF	NSF	17	5.4	4.5	7.5
Total PCBs	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Total Suspended Solids	mg/L	1100	88	290	37	19	48	120	40	18	27	85	41	58	39	16	38	27	14	84	95	82	NSF	NSF	1400	ND	BRL	26
Toxaphene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	n/a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Trichloroethylene	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Vinyl chloride	µg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Zinc	mg/L	0.18	0.046	0.13	0.084	0.028	0.051	0.075	0.044	0.059	0.087	0.13	0.11	0.13	0.053	0.030	0.23	0.13	0.037	0.084	0.11	0.097	NSF	NSF	0.25	0.042	0.079	0.044

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001

FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M10A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

DMR Mailing ZIP CODE: 20002
MAJOR

STICKFOOT SEWER
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	******	******	******	******	******	75.9				
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	deg F		Three Per Year	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	******	******	******	******	******	87.0				
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
pH	SAMPLE MEASUREMENT	******	******	******	7.10	******	7.65				
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	Req. Mon. ANNL MAX	SU		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******	******	1,100				
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Oil & grease	SAMPLE MEASUREMENT	******	******	******	******	******	34.0				
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	8.4				
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, organic total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	N.R				
00605 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Jeffrey Seltzer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		202 535-1603		01/18/13
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHED MON. IS QRTLY. REPORTED ANNLY. Composite sample type was used for analysis of the following parameters: ~~Total Ammonia~~, TKN, TN, Hardness, TP, ~~BOD~~, COD, ~~chlorophyll~~, TSS, BOD, metals, pesticides, BNE SVOCs, AE SVOC, TDS, TOC. Grab samples were used for analysis of the following: VOCs, Cyanide, Phenol, Oil & Grease, F. Coliform, Strep, E-Coli. Composite sample type was also used for: $NO_3 + NO_2$, PCBs

EPA Form 3320-1 (Rev.01/06) Previous editions may be used.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

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ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001

FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT N/
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M10A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

STICKFOOT SEWER
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	N.R				
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, Kjeldahl, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	8.4				
00625 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrite plus nitrate total 1 det. (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	0.31				
00630 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Phosphorus, total (as P)	SAMPLE MEASUREMENT	******	******	******	******	******	0.92				
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Phosphorus, dissolved	SAMPLE MEASUREMENT	******	******	******	******	******	0.43				
00666 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Cyanide, total (as CN)	SAMPLE MEASUREMENT	******	******	******	******	******	0.24				
00720 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Hardness, total (as CaCO3)	SAMPLE MEASUREMENT	******	******	******	******	******	130				
00900 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Jeffrey Seltzer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	JM Sel	202	535-1603	01-18-13
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHED MON. IS QRTLY, REPORTED ANNLY.
See ~~page~~ First Sheet

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001

FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M10A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

STICKFOOT SEWER
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Fecal streptococci, MF m-enterococcus ag	SAMPLE MEASUREMENT	******	******	******	******	******	160,000				
31679 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	#/100mL		Three Per Year	GRAB
Base/neutral compounds	SAMPLE MEASUREMENT	******	******	******	******	******	0.034				
32015 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Acid compounds	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
32020 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1016	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
34671 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1221	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39488 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1232	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39492 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1242 bot. dep., dry solid	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39499 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHED MON. IS QRTLY, REPORTED ANNLY.
See First Sheet

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001
FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M10A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

STICKFOOT SEWER
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
PCB-1248	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
39500 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1254	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
39504 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1260	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
39508 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Phenols	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.096				
46000 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Solids, total dissolved (TDS)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	530				
70296 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Pesticides, general	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.00053				
74053 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Coliform, fecal general	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	160,000				
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	#/100mL		Three Per Year	GRAB

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHED MON. IS QRTLY, REPORTED ANNLY.
See ~~previous~~ First Sheet

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001

FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M10A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

STICKFOOT SEWER
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Metals, total	SAMPLE MEASUREMENT	******	******	******	******	******	0.360				
78240 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Volatile compounds, (GC/MS)	SAMPLE MEASUREMENT	******	******	******	******	******	0.0015				
78732 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Chemical Oxygen Demand (COD)	SAMPLE MEASUREMENT	******	******	******	******	******	200				
81017 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHED MON. IS QRTLY, REPORTED ANNLY.
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

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WASHINGTON, DC 20001

DC0000221	M10B
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

STICKFOOT SEWER
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	******	******	******	******	******					
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	deg F		Three Per Year	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	******	******	******	******	******					
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
pH	SAMPLE MEASUREMENT	******	******	******		******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	Req. Mon. ANNL MAX	SU		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******	******					
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Oil & grease	SAMPLE MEASUREMENT	******	******	******	******	******					
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******					
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, organic total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******					
00605 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHED (STICKFOOT SEWER) MON. IS QRTLY, REPORTED ANNLY.
See First Sheet

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001

FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M11A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

O ST. STORMWATER PUMP STA.
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	76.6				
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	deg F		Three Per Year	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	19				
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
pH	SAMPLE MEASUREMENT	*****	*****	*****	7.25	*****	7.58				
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. MINIMUM	*****	Req. Mon. ANNL MAX	SU		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	48				
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Oil & grease	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	5.0				
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	4.2				
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, organic total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	NR				
00605 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHEDMON. IS QRTLY, REPORTED ANNLY.
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001

FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M11A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

O ST. STORMWATER PUMP STA.
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Nitrogen, ammonia dissolved	SAMPLE MEASUREMENT	******	******	******	******	******	NR				
00608 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	NR				
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, Kjeldahl, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	4.2				
00625 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrite plus nitrate total 1 det. (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	1.2				
00630 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Phosphorus, total (as P)	SAMPLE MEASUREMENT	******	******	******	******	******	0.48				
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Phosphorus, dissolved	SAMPLE MEASUREMENT	******	******	******	******	******	0.3				
00666 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Cyanide, total (as CN)	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
00720 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHEDMON. IS ORTLY, REPORTED ANNLY.
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

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WASHINGTON, DC 20001

DC0000221	M11A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

DMR Mailing ZIP CODE: 20002
MAJOR

O ST. STORMWATER PUMP STA.
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Hardness, total (as CaCO3)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	150				
00900 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Fecal streptococci, MF m-enterococcus ag	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	1,600				
31679 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	#/100mL		Three Per Year	GRAB
Base/neutral compounds	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.0065				
32015 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Acid compounds	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
32020 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1016	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
34671 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1221	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
39488 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1232	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
39492 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHEDMON. IS QRTLY, REPORTED ANNLY.
See First Sheet

EPA Form 3320-1 (Rev.01/06) Previous editions may be used.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
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LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M11A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

O ST. STORMWATER PUMP STA.
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
PCB-1242 bot. dep., dry solid	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39499 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1248	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39500 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1254	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39504 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1260	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39508 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Phenols	SAMPLE MEASUREMENT	******	******	******	******	******	0.026				
46000 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Solids, total dissolved (TDS)	SAMPLE MEASUREMENT	******	******	******	******	******	480				
70296 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, ammonia total (as NH4)	SAMPLE MEASUREMENT	******	******	******	******	******	NR				
71845 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Jeffrey Seltzer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	202 5351603		01/18/2013
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHEDMON. IS QRTLY. REPORTED ANNLY.
See First Sheet

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001

FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M11A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

O ST. STORMWATER PUMP STA.
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Pesticides, general	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.0001				
74053 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Coliform, fecal general	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	160,000				
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	#/100mL		Three Per Year	GRAB
Metals, total	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.13				
78240 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Volatile compounds, (GC/MS)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
78732 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Chemical Oxygen Demand (COD)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	59				
81017 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHEDMON. IS QRTLY. REPORTED ANNLY.
See First Sheet

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001
FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M11B
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

O ST. STORMWATER PUMP STA.
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	deg F		Three Per Year	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
pH	SAMPLE MEASUREMENT	*****	*****	*****		*****					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. MINIMUM	*****	Req. Mon. ANNL MAX	SU		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Oil & grease	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, organic total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					
00605 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHED. MON. ISQRTLY, REPORTED ANNLY.
see ~~page~~ First Sheet

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001

FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	MS9A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

DMR Mailing ZIP CODE: 20002
MAJOR

HICKEY RUN
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	62.2				
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	deg F		Three Per Year	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	7.5				
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
pH	SAMPLE MEASUREMENT	*****	*****	*****	7.11	*****	7.31				
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. MINIMUM	*****	Req. Mon. ANNL MAX	SU		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	26				
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Oil & grease	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	2.9				
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Nitrogen, organic total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	NR				
00605 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHEDMON. IS QRTLY, REPORTED ANNLY.
See First Page

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001
FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	MS8B
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

FT. LINCOLN-NEWTOWN BMP
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Coliform, fecal general 74055 1 0 Effluent Gross	SAMPLE MEASUREMENT	******	******	******	******	******					
	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	#/100mL		Three Per Year	GRAB
Metals, total 78240 1 0 Effluent Gross	SAMPLE MEASUREMENT	******	******	******	******	******					
	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Volatile compounds, (GC/MS) 78732 1 0 Effluent Gross	SAMPLE MEASUREMENT	******	******	******	******	******					
	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Chemical Oxygen Demand (COD) 81017 1 0 Effluent Gross	SAMPLE MEASUREMENT	******	******	******	******	******					
	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHED - DO TO ROTATING SCHEDULE OUTFALL BECOMES EFFECT. 01/01/08.__MON. IS QRTLY., REPORTED ANNLY.
See First Page

EPA Form 3320-1 (Rev.01/06) Previous editions may be used.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001
FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	MS9A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

HICKEY RUN
External Outfall

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Nitrogen, ammonia total (as N) 00610 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	NR				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Nitrogen, Kjeldahl, total (as N) 00625 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	2.8				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Nitrite plus nitrate total 1 det. (as N) 00630 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.14				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Phosphorus, total (as P) 00665 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.071				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Phosphorus, dissolved 00666 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.025				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Cyanide, total (as CN) 00720 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.025				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Hardness, total (as CaCO3) 00900 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	39				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHEDMON. IS QRTLY, REPORTED ANNLY.
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
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FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	MS9A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

DMR Mailing ZIP CODE: 20002
MAJOR

HICKEY RUN
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Fecal streptococci, MF m-enterococcus ag 31679 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	12,000				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	#/100mL		Three Per Year	GRAB
Base/neutral compounds 32015 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.007				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Acid compounds 32020 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1016 34671 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1221 39488 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1232 39492 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1242 bot. dep., dry solid 39499 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHEDMON. IS QRTLY, REPORTED ANNLY.
See First Page

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001
FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	MS9A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

HICKEY RUN
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
PCB-1248	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
39500 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1254	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
39504 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1260	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
39508 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Phenols	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
34000 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Solids, total dissolved (TDS)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	110				
70296 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Pesticides, general	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
74053 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Coliform, fecal general	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	1,300				
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	#/100mL		Three Per Year	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Jeffrey Seltzer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		2025351603		01/18/2013
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHEDMON. IS QRTLY, REPORTED ANNLY.
See First Page

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001

FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	MS9A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

DMR Mailing ZIP CODE: 20002
MAJOR

HICKEY RUN
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Metals, total	SAMPLE MEASUREMENT	******	******	******	******	******	0.59				
78240 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Volatile compounds, (GC/MS)	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
78732 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Chemical Oxygen Demand (COD)	SAMPLE MEASUREMENT	******	******	******	******	******	21				
81017 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

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See First Page

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

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WASHINGTON, DC 20001

FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M12A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

ANACOSTIA HIGH SCHOOL/REC. CTR
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	******	******	******	******	******	14.2				
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	deg F		Three Per Year	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	******	******	******	******	******	18				
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
pH	SAMPLE MEASUREMENT	******	******	******	6.87	******	7.36				
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	Req. Mon. ANNL MAX	SU		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******	******	120				
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Oil & grease	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	3.7				
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, organic total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	NR				
00605 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHEDMON. IS QRTLY, REPORTED ANNLY.
See ~~next~~ First Sheet

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001
FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M12A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

ANACOSTIA HIGH SCHOOL/REC. CTR
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	NR				
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, Kjeldahl, total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	3.4				
00625 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrite plus nitrate total 1 det. (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	1.2				
00630 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Phosphorus, total (as P)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.41				
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Phosphorus, dissolved	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.11				
00666 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Hardness, total (as CaCO3)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	160				
00900 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Fecal streptococci, MF m-enterococcus ag	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	24,000				
31679 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	#/100mL		Three Per Year	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHEDMON. IS QRTLY, REPORTED ANNLY.
Total CN = annual Max = ND, Also See First Sheet JC

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001
FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M12A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

ANACOSTIA HIGH SCHOOL/REC. CTR
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Base/neutral compounds	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.044				
32015 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Acid compounds	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
32020 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1016	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
34671 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1221	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
39488 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1232	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
39492 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1242 bot. dep., dry solid	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
39499 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1248	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
39500 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHEDMON. IS QRTLY, REPORTED ANNLY.
See page First Sheet

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001

FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M12A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

DMR Mailing ZIP CODE: 20002
MAJOR

ANACOSTIA HIGH SCHOOL/REC. CTR
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
PCB-1254	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
39504 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1260	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
39508 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Phenols	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.011				
46000 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Solids, total dissolved (TDS)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	2,060				
70296 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Pesticides, general	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
74053 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Coliform, fecal general	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	30,000				
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	#/100mL		Three Per Year	GRAB
Metals, total	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.187				
78240 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHEDMON. IS QRTLY, REPORTED ANNLY.
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001

FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M12A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

ANACOSTIA HIGH SCHOOL/REC. CTR
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Volatile compounds, (GC/MS)	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
78732 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Chemical Oxygen Demand (COD)	SAMPLE MEASUREMENT	******	******	******	******	******	46				
81017 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

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FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA.
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M12B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

DMR Mailing ZIP CODE: 20002
MAJOR

ANACOSTIA HIGH SCH./REC. CTR.
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit 00011 1 0 Effluent Gross	SAMPLE MEASUREMENT	******	******	******	******	******					
	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	deg F		Three Per Year	GRAB
BOD, 5-day, 20 deg. C 00310 1 0 Effluent Gross	SAMPLE MEASUREMENT	******	******	******	******	******					
	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
pH 00400 1 0 Effluent Gross	SAMPLE MEASUREMENT	******	******	******		******					
	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	Req. Mon. ANNL MAX	SU		Three Per Year	GRAB
Solids, total suspended 00530 1 0 Effluent Gross	SAMPLE MEASUREMENT	******	******	******	******	******					
	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Oil & grease 00556 1 0 Effluent Gross	SAMPLE MEASUREMENT	******	******	******	******	******					
	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N) 00600 1 0 Effluent Gross	SAMPLE MEASUREMENT	******	******	******	******	******					
	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, organic total (as N) 00605 1 0 Effluent Gross	SAMPLE MEASUREMENT	******	******	******	******	******					
	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANANCOSTIA RIVER WATERSHED. MONJS QRTLY, REPORTED ANNLY.
See First Sheet

EPA Form 3320-1 (Rev.01/06) Previous editions may be used.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001
FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M13B
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

GALLATIN & 14TH ST., NE
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	deg F		Three Per Year	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
pH	SAMPLE MEASUREMENT	*****	*****	*****		*****					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. MINIMUM	*****	Req. Mon. ANNL MAX	SU		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Oil & grease	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, organic total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					
00605 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Jeffrey Seltzer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		2025351603		01/18/2013
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANANCOSTIA RIVER WATERSHED. MON. IS QRTLY, REPORTED ANNLY.
See First Sheet

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001

FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M13A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

DMR Mailing ZIP CODE: 20002
MAJOR

GALLATIN & 14TH STREET, NE
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Metals, total	SAMPLE MEASUREMENT	******	******	******	******	******	0.26				
78240 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Volatile compounds, (GC/MS)	SAMPLE MEASUREMENT	******	******	******	******	******	0.0613				
78732 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Chemical Oxygen Demand (COD)	SAMPLE MEASUREMENT	******	******	******	******	******	110				
81017 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

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TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

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GALLATIN & 14TH STREET, NE
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	NR				
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, Kjeldahl, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	3.4				
00625 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrite plus nitrate total 1 det. (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	2.7				
00630 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Phosphorus, total (as P)	SAMPLE MEASUREMENT	******	******	******	******	******	0.53				
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Phosphorus, dissolved	SAMPLE MEASUREMENT	******	******	******	******	******	0.15				
00666 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Cyanide, total (as CN)	SAMPLE MEASUREMENT	******	******	******	******	******	0.0084				
00720 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Hardness, total (as CaCO3)	SAMPLE MEASUREMENT	******	******	******	******	******	190				
00900 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

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LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M13A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

GALLATIN & 14TH STREET, NE
External Outfall

No Discharge ☐

MONITORING PERIOD	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	73.6				
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	deg F		Three Per Year	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	30				
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
pH	SAMPLE MEASUREMENT	*****	*****	*****	7.22	*****	8.09				
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. MINIMUM	*****	Req. Mon. ANNL MAX	SU		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	85				
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Oil & grease	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	NO				
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	3.6				
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, organic total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	NR				
00605 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001

FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M13A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

DMR Mailing ZIP CODE: 20002
MAJOR

GALLATIN & 14TH STREET, NE
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
PCB-1248	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39500 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1254	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39504 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1260	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39508 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Phenols	SAMPLE MEASUREMENT	******	******	******	******	******	0.081				
46000 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Solids, total dissolved (TDS)	SAMPLE MEASUREMENT	******	******	******	******	******	330				
70296 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Pesticides, general	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
74053 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	******	160,000				
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	#/100mL		Three Per Year	GRAB

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EPA Form 3320-1 (Rev.01/06) Previous editions may be used.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

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WASHINGTON, DC 20001
FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M13A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

GALLATIN & 14TH STREET, NE
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Fecal streptococci, MF m-enterococcus ag 31679 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	28,000				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	#/100mL		Three Per Year	GRAB
Base/neutral compounds 32015 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.011				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Acid compounds 32020 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1016 34671 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1221 39488 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1232 39492 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1242 bot. dep., dry solid 39499 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

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DC0000221	M14A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

VARNUM & 19TH PLACE, NE
External Outfall

No Discharge ☐

MONITORING PERIOD			
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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	65.3				
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	deg F		Three Per Year	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	58				
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
pH	SAMPLE MEASUREMENT	*****	*****	*****	7.01	*****	7.44				
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. MINIMUM	*****	Req. Mon. ANNL MAX	SU		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	58				
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Oil & grease	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	4.8				
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, organic total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	NR				
00605 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

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DC0000221	M14A
PERMIT NUMBER	DISCHARGE NUMBER

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MAJOR

VARNUM & 19TH PLACE, NE
External Outfall

No Discharge ☐

MONITORING PERIOD			
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FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	NR				
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, Kjeldahl, total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	4.8				
00625 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrite plus nitrate total 1 det. (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.058				
00630 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Phosphorus, total (as P)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.92				
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Phosphorus, dissolved	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.68				
00666 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Cyanide, total (as CN)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.0079				
00720 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Hardness, total (as CaCO3)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	220				
00900 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

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DC0000221	M14A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

VARNUM & 19TH PLACE, NE
External Outfall

No Discharge ☐

MONITORING PERIOD			
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FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Fecal streptococci, MF m-enterococcus ag	SAMPLE MEASUREMENT	******	******	******	******	******	160,000				
31679 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	#/100mL		Three Per Year	GRAB
Base/neutral compounds	SAMPLE MEASUREMENT	******	******	******	******	******	0.066				
32015 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Acid compounds	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
32020 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1016	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
34671 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1221	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39488 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1232	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39492 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1242 bot. dep., dry solid	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39499 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
~~Jeffrey~~ Seltzer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		202 535 1603		01/18/2013
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHEDMON. IS QRTLY, REPORTED ANNLY.
See First Sheet

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001

FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M14A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

VARNUM & 19TH PLACE, NE
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
PCB-1248	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
39500 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1254	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
39504 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1260	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
39508 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Phenols	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.030				
46000 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Solids, total dissolved (TDS)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	480				
70296 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Pesticides, general	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
74053 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Coliform, fecal general	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	16,000				
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	#/100mL		Three Per Year	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHEDMON. IS QRTLY, REPORTED ANNLY.
See First Sheet

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001
FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M14B
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

VARNUM
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	******	******	******	******	******					
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	deg F		Three Per Year	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	******	******	******	******	******					
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	******	******	******	******	******					
00310 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
pH	SAMPLE MEASUREMENT	******	******	******		******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	Req. Mon. ANNL MAX	SU		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******	******					
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Oil & grease	SAMPLE MEASUREMENT	******	******	******	******	******					
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******					
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHED. MON. IS QRTLY, REPORTED ANNLY.
See First Sheet

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001

FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M14A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

VARNUM & 19TH PLACE, NE
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Metals, total	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.22				
78240 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Volatile compounds, (GC/MS)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.0019				
78732 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Chemical Oxygen Demand (COD)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	130				
81017 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHEDMON. IS QRTLY, REPORTED ANNLY.
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

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OMB No. 2040-0004

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FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M15A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

DMR Mailing ZIP CODE: 20002
MAJOR

NASH RUN
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit 00011 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	61.0				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	deg F		Three Per Year	GRAB
BOD, 5-day, 20 deg. C 00310 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	57				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
BOD, 5-day, 20 deg. C 00310 A 0 Disinfection, Process Complete	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	NR DC				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
pH 00400 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	6.88	*****	7.22				
	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. MINIMUM	*****	Req. Mon. ANNL MAX	SU		Three Per Year	GRAB
Solids, total suspended 00530 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	38				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Oil & grease 00556 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N) 00600 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	13				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHEDMON. IS QRTLY. REPORTED ANNLY.
NA- Not Applicable, See First Sheet

EPA Form 3320-1 (Rev.01/06) Previous editions may be used.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

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WASHINGTON, DC 20001

DC0000221	M15A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

NASH RUN
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Nitrogen, organic total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	NR				
00605 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	NR				
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, Kjeldahl, total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	13				
00625 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrite plus nitrate total 1 det. (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.1				
00630 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Phosphorus, total (as P)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.46				
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Phosphorus, dissolved	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.38				
00666 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Cyanide, total (as CN)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
00720 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

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DC0000221	M15A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

NASH RUN
External Outfall

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Hardness, total (as CaCO3) 00900 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	170				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Fecal streptococci, MF m-enterococcus ag 31679 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	30,000				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	#/100mL		Three Per Year	GRAB
Base/neutral compounds 32015 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.032				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Acid compounds 32020 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1016 34671 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1221 39488 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1232 39492 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHED MON. IS QRTLY. REPORTED ANNLY.
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

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FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
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DC0000221	M15A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

NASH RUN
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
PCB-1242 bot. dep., dry solid	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39489 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1248	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39500 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1254	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39504 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
PCB-1260	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39508 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Phenols	SAMPLE MEASUREMENT	******	******	******	******	******	0.043				
46000 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Solids, total dissolved (TDS)	SAMPLE MEASUREMENT	******	******	******	******	******	120				
70296 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, ammonia total (as NH4)	SAMPLE MEASUREMENT	******	******	******	******	******	NR				
71845 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHEDMON. IS QRTLY. REPORTED ANNLY.
See First Sheet

EPA Form 3320-1 (Rev.01/06) Previous editions may be used.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location If Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001
FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M15A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

DMR Mailing ZIP CODE: 20002
MAJOR

NASH RUN
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Pesticides, general 74053 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAS
Coliform, fecal general 74055 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	24,000				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	#/100mL		Three Per Year	GRAB
Metals, total 78240 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.322				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Volatile compounds, (GC/MS) 78732 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.0012				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Chemical Oxygen Demand (COD) 81017 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	110				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHEDMON. IS QRTLY. REPORTED ANNLY.
See First Sheet

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001
FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	M15B
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

NASH RUN
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	******	******	******	******	******					
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	deg F		Three Per Year	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	******	******	******	******	******					
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	******	******	******	******	******					
00310 A 0 Disinfection, Process Complete	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
pH	SAMPLE MEASUREMENT	******	******	******		******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	Req. Mon. ANNL MAX	SU		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******	******					
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Oil & grease	SAMPLE MEASUREMENT	******	******	******	******	******					
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******					
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHED. MON. IS QRTLY., REPORTED ANNLY.
See First Sheet

EPA Form 3320-1 (Rev.01/06) Previous editions may be used.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001

FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	MS8A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

DMR Mailing ZIP CODE: 20002
MAJOR

FT. LINCOLN-NEWTOWN BMP
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	******	******	******	******	******	55.6				
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	deg F		Three Per Year	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	******	******	******	******	******	22				
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
pH	SAMPLE MEASUREMENT	******	******	******	7.2	******	7.2				
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	Req. Mon. ANNL MAX	SU		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******	******	1,400				
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Oil & grease	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	5.3				
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Nitrogen, organic total (as N)	SAMPLE MEASUREMENT	******	******	******	******		NR DC				
00605 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. AVERAGE	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
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TYPED OR PRINTED			AREA Code NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHEDMON. IS QRTLY, REPORTED ANNLLY.
NR = not Reported, See First Page

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
WASHINGTON, DC 20001
FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	MS7A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

EAST CAPITOL ST.
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Volatile compounds, (GC/MS)	SAMPLE MEASUREMENT	******	******	******	******	******	0.212				
78732 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Chemical Oxygen Demand (COD)	SAMPLE MEASUREMENT	******	******	******	******	******	49				
81017 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
_ANACOSTIA RIVER WATERSHEDMON. IS QRTLY., REPORTED ANNLY.
See First Page

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

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FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
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WASHINGTON, DC 20001

DC0000221	MS8A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

FT. LINCOLN-NEWTOWN BMP
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	NR				
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Nitrogen, Kjeldahl, total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	5.3				
00625 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Nitrite plus nitrate total 1 det. (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
00630 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Phosphorus, total (as P)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	1.1				
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Phosphorus, dissolved	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
00666 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Cyanide, total (as CN)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.016				
00720 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Hardness, total (as CaCO3)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	110				
00900 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
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See ~~page~~ First Page NR = Not Reported

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

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FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	MS8A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

FT. LINCOLN-NEWTOWN BMP
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Fecal streptococci, MF m-enterococcus ag 31679 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	1,600				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. MAXIMUM	#/100mL		Three Per Year	GRAB
Base/neutral compounds 32015 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Acid compounds 32020 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1016 34671 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1221 39488 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1232 39492 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1242 bot. dep., dry solid 39499 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ND				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHED MON. IS QRTLY, REPORTED ANNLLY.
See First Page

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
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LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	MS8A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

FT. LINCOLN-NEWTOWN BMP
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
PCB-1248 39500 1 0 Effluent Gross	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1254 39504 1 0 Effluent Gross	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1260 39508 1 0 Effluent Gross	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Phenols 46000 1 0 Effluent Gross	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Solids, total dissolved (TDS) 70296 1 0 Effluent Gross	SAMPLE MEASUREMENT	******	******	******	******	******	1,300				
	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Pesticides, general 74053 1 0 Effluent Gross	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Coliform, fecal general 74055 1 0 Effluent Gross	SAMPLE MEASUREMENT	******	******	******	******	******	1,600				
	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	#/100mL		Three Per Year	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHEDMON. IS QRTLY, REPORTED ANNLLY.
see ~~Page~~ First Page

EPA Form 3320-1 (Rev.07/06) Previous editions may be used.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: The Government of the District of Columbia-DDOE
ADDRESS: 441 4TH STREET, N.W.
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FACILITY: DISTRICT DEPARTMENT OF THE ENVIRONMENT NA
LOCATION: 1200 FIRST STREET, NE., 5TH FLOOR
WASHINGTON, DC 20001

DC0000221	MS8A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	04/01/2011	TO	03/31/2012

DMR Mailing ZIP CODE: 20002
MAJOR

FT. LINCOLN-NEWTOWN BMP
External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Metals, total	SAMPLE MEASUREMENT	******	******	******	******	******	0.43				
78240 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Volatile compounds, (GC/MS)	SAMPLE MEASUREMENT	******	******	******	******	******	NO				
78732 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Chemical Oxygen Demand (COD)	SAMPLE MEASUREMENT	******	******	******	******	******	16				
81017 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Jeffrey Seltzer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations		202	535 1603	01/18/2013
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ANACOSTIA RIVER WATERSHEDMON. IS QRTLY, REPORTED ANNLLY.

see ~~Page~~ First Page

Appendix M Estimation of Runoff Coefficients for Monitored Sewersheds

Runoff coefficients were estimated for each of the nine monitored sewersheds contributing flow to the Anacostia River monitoring sites. Land use and acreage calculations within each sewershed were completed using the *'Land Use-Existing'* dataset provided by the District of Columbia Office of Planning. This layer is also available to the public at: http://dcatlas.dcgis.dc.gov/catalog/

Weighted average runoff coefficients were assigned to each sewershed using Equation 2 on page 5-16 of the EPA *"Guidance Manual for the Preparation of Part 2 of the NPDES Permit Applications for Discharges from Municipal Separate Storm Sewer Systems"*, 1992. The equation is expressed:

$$Rv_i = (\sum A_i R_v) / (\sum A_i)$$

Where: Rv_i = Weighted Average Runoff Coefficient
R_v = Assigned Runoff Coefficient for each land use type
A_i = Catchment area (acres) for each zoning type

Runoff coefficients (R_v) were estimated for each land use type in the District of Columbia by taking into consideration both the runoff coefficient ranges for various land use types presented in exhibit 3-12 on page 57 of the US EPA *"NPDES Stormwater Sampling Guidance Document"*, and runoff coefficient values used associated with District of Columbia zoning categories used in previous DMR's. Where the US EPA suggested runoff coefficients from Exhibit 3-12 did not contain a corresponding runoff coefficient range for a District of Columbia land use category, the corresponding code from a previous DMR was used as a substitute. Final runoff coefficient values by land use type are given in Table 1. Weighted average runoff coefficients for each site were estimated using Table 2.

Table 1 Estimated Runoff Coefficients for District of Columbia Existing Land Use Categories

Land Use Code	Description	Final Rv
C, O	Commercial (ac)	0.85
LDR	Low Density Residential	0.50
LMDR	Low Medium Density Residential	0.65
MDR	Medium Density Residential	0.77
HDR	High Density Residential	0.85
FP	Federal Public Land	0.77
I	Industrial	0.95
TCU	Transport/Communications/Utilities	0.95
LP	Local Public	0.77
MU	Mixed Use	0.905
PQP-I	Public-Quasi Public Institutional	0.80
R	Parks and Open Space	0.35
S	Institutional	0.80
TROW	Transportation Right-of-Way	0.85
ALLEYS	Alleys	0.95

Land Use Code	Description	Final Rv
MEDIAN	Median	0.30
PARKING	Parking	0.95
ROADS	Roads	0.95
TRAFFICS	Traffic	0.95

Table 2 Anacostia Sewershed Weighted Runoff Coefficients (Using equation 2)

Site Name	Runoff Coefficient (Rv)	Land Use Code	Acreage	Weighted Average Runoff Coefficient ($Rv_{i)}$
Stickfoot Sewershed	0.95	ALLEYS	2.149	
	0.64	C	26.085	
	0.77	FP	15.605	
	0.905	HDR	19.749	
	0.50	LDR	43.618	
	0.725	LMDR	29.744	
	0.80	LP	165.293	
	0.77	MDR	83.238	
	0.30	MEDIAN	1.312	
	0.80	PQP-I	1.735	
	0.35	R	107.785	
	0.95	ROADS	59.912	
	0.80	S	22.811	
	0.95	TCU	4.700	
	0.85	TROW	32.122	
			0.456	**0.71**
O Street Pump Station	0.95	ALLEYS	0.261	
	0.95	C	8.789	
	0.77	FP	0.105	
	0.95	I	3.344	
	0.50	LDR	0.016	
	0.80	LP	0.071	
	0.30	MEDIAN	0.025	
	0.64	O	1.270	
	0.35	R	0.271	
	0.95	ROADS	5.800	
	0.80	S	0.183	
	0.95	TCU	0.113	
	0.85	TROW	5.168	
			0.005	**0.9**

Site Name	Runoff Coefficient (Rv)	Land Use Code	Acreage	Weighted Average Runoff Coefficient ($Rv_{i)}$
Anacostia High School	0.95	ALLEYS	3.671	
	0.64	C	20.310	
	0.905	HDR	12.807	
	0.50	LDR	9.995	
	0.725	LMDR	26.268	
	0.80	LP	5.559	
	0.77	MDR	46.758	
	0.30	MEDIAN	0.035	
	0.64	O	2.234	
	0.80	PQP-I	0.124	
	0.35	R	68.663	
	0.95	ROADS	23.249	
	0.80	S	9.198	
	0.95	TCU	0.300	
	0.85	TROW	22.624	**0.66**
Gallatin and 14th Street NE	0.95	ALLEYS	15.866	
	0.64	C	21.335	
	0.77	FP	5.059	
	0.905	HDR	0.021	
	0.95	I	43.590	
	0.50	LDR	20.307	
	0.725	LMDR	149.553	
	0.80	LP	23.492	
	0.77	MDR	12.116	
	0.30	MEDIAN	0.757	
	0.64	O	4.647	
	0.95	PARKING	3.259	
	0.35	R	95.603	
	00	RIVER	0.001	
	0.95	ROADS	71.765	
	0.80	S	108.198	
	0.95	TCU	32.918	
	0.85	TROW	53.719	
			0.248	**0.74**

Site Name	Runoff Coefficient (Rv)	Land Use Code	Acreage	Weighted Average Runoff Coefficient ($Rv_{i)}$
Varnum and 19th Street NE	0.95	ALLEYS	17.283	
	0.64	C	11.836	
	0.77	FP	5.146	
	0.50	LDR	248.551	
	0.725	LMDR	15.504	
	0.80	LP	2.879	
	0.77	MDR	1.492	
	0.30	MEDIAN	0.112	
	0.64	O	0.992	
	0.80	PQP-I	0.172	
	0.35	R	23.197	
	0.95	ROADS	71.650	
	0.80	S	36.361	
	0.85	TROW	82.266	
			0.021	**0.66**
Nash Run	0.95	ALLEYS	0.374	
	0.50	LDR	2.748	
	0.725	LMDR	0.777	
	0.80	LP	3.400	
	0.35	R	3.548	
	0.95	ROADS	1.156	
	0.85	TROW	1.442	**0.64**
East Capitol Street	0.95	ALLEYS	1.211	
	0.64	C	0.050	
	0.50	LDR	0.371	
	0.725	LMDR	8.663	
	0.77	MDR	0.092	
	0.35	R	0.006	
	0.95	ROADS	2.513	
	0.80	S	1.905	
	0.85	TROW	1.915	**0.79**
Hickey Run	0.95	I	4.642	
	0.95	ROADS	1.546	
	0.95	TCU	1.277	
	0.85	TROW	1.119	**0.94**

Appendix N Sampling Results for the Anacostia River Watershed

Appendix N Wet Weather Sampling Results for the Anacostia River Watershed

(ROTATION 4- RAW DATA)

		Stickfoot Sewer			O St. Storm WaterPump Station			Anacostia High School			Gallatin & 14th St., NE			Varnum and 19th Pl., NE			Nash Run			East Capitol St.			Ft. Lincoln-Newton BMP			Hickey Run		
Parameter	**Units**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**
1,1,1-Trichloroethane	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,1,2,2-Tetrachloroethane	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,1,2-Trichloroethane	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,1-Dichloroethane	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,2,4-Trichlorobenzene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,2-Dichlorobenzene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,2-Dichloroethane	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,2-Dichloropropane	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,2-Diphenylhydrazine	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,2-Trans-Dichloroethylene (Trance-1,2-Dichloroethane)	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,3-Dichlorobenzene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,3-Dichloropropylene (trans 1,3-Dichloropropylene)	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
1,4-Dichlorobenzene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
2,3,7,8-TCDD (Dioxin)	pg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
2,4,6-Trichlorophenol	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
2,4-Dichlorophenol	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
2,4-Dimethylphenol	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
2,4-Dinitrophenol	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
2,4-Dinitrotoluene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
2,6-Dinitrotoluene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
2-Chloroethyl Vinyl Ether	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
2-Chloronaphthalene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND

		Stickfoot Sewer			O St. Storm WaterPump Station			Anacostia High School			Gallatin & 14th St., NE			Varnum and 19th Pl., NE			Nash Run			East Capitol St.			Ft. Lincoln-Newton BMP			Hickey Run		
Parameter	**Units**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**
2-Chlorophenol	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
2-Nitrophenol	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
3,3´-Dichlorobenzidine	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
3,4-Benzofluoranthene (Benzo[b]fluoranthene)	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
4,6-Dinitro-o-Crestol (4,6-Dinitro-2-methylphenol)	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
4-Bromophenyl-phenylether	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
4-Chlorophenyl-phenylether	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
4-Nitrophenol	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Acenaphthene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Acenaphthylene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Acrolein	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Acrylonitrile	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Aldrin	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Alpha-BHC	ug/L	BRL	ND	0.22	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Anthracene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Antimony	mg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Aroclor 1016 (PCB 1016)	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Aroclor 1221 (PCB 1221)	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Aroclor 1232 (PCB 1232)	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Aroclor 1242 (PCB 1242)	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Aroclor 1248 (PCB 1248)	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Aroclor 1254 (PCB 1254)	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Aroclor 1260 (PCB 1260)	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Arsenic	mg/L	0.0034	ND	ND	BRL	0.0033	ND	0.0022	0.0021	ND	ND	0.0029	0.0026	ND	ND	0.0020	ND	ND	ND	0.0026	0.0048	0.0030	NSF	NSF	0.0037	ND	BRL	ND
Benzene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Benzidine	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND

		Stickfoot Sewer			O St. Storm WaterPump Station			Anacostia High School			Gallatin & 14th St., NE			Varnum and 19th Pl., NE			Nash Run			East Capitol St.			Ft. Lincoln-Newton BMP			Hickey Run		
Parameter	**Units**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**
Benzo(a)anthracene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Benzo[a]pyrene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Benzo[g,h,i]perylene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Benzo[k]fluoranthene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Beryllium	mg/L	0.0016	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	0.0023	ND	BRL	ND
Beta-BHC	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Bis(2-Chloroethoxy)methane	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Bis(2-Chloroethyl)ether	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Bis(2-chloroisopropyl)ether	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Bis(2-Ethylhexyl)phthalate	ug/L	BRL	ND	34	BRL	ND	6.5	16	44	ND	ND	ND	11	66	27	29	20	5.2	9.1	ND	BRL	ND	NSF	NSF	ND	7.0	BRL	ND
BOD	mg/L	74	40	87	19	16	9.7	18	10	4.1	6.2	30	15	58	29	17	45	57	14	7.3	35	21	NSF	NSF	22	4.5	4.7	7.5
Bromodichloromethane (Dichlorobromomethane)	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Bromoform	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Bromomethane (Methyl bromide)	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Butylbenzylphthalate	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Cadmium	mg/L	0.00062	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	0.00094	ND	ND	ND	ND	ND	ND	0.0014	0.00088	0.00086	NSF	NSF	ND	ND	BRL	ND
Carbon Tetrachloride	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Chlordane (Technical Chlordane)	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Chlorobenzene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Chloroethane	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Chloroform	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Chloromethane (Methyl chloride)	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Chlorophyll a	mg/m³	41	ND	8.22	8.2	ND	6.17	ND	3.85	3.50	ND	6.2	4.1	ND	6.46	3.75	ND	ND	11.8	6.2	32.8	6.36	NSF	NSF	ND	5.0	1.80	ND
Chromium	mg/L	0.024	0.0034	0.0082	0.0027	ND	ND	0.0040	0.0024	ND	0.0023	0.0038	0.020	0.0033	ND	ND	0.0033	0.0035	ND	0.0028	0.0095	0.0033	NSF	NSF	0.047	ND	BRL	ND
Chrysene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
cis-1,3-Dichloropropylene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
COD, Total	mg/L	72	86	200	59	32	30	46	37	15	38	110	30	130	60	43	110	92	19	31	49	30	NSF	NSF	16	20	27	17

		Stickfoot Sewer			O St. Storm WaterPump Station			Anacostia High School			Gallatin & 14th St., NE			Varnum and 19th Pl., NE			Nash Run			East Capitol St.			Ft. Lincoln-Newton BMP			Hickey Run		
Parameter	**Units**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**
Copper	mg/L	0.072	0.020	0.042	0.039	0.078	0.045	0.092	0.022	0.013	0.013	0.034	0.020	0.059	0.019	0.010	0.082	0.11	0.022	0.015	0.023	0.016	NSF	NSF	0.049	0.0062	0.0061	0.0111
Cyanide, Total	mg/L	BRL	ND	0.24	BRL	ND	ND	ND	ND	ND	0.0084	ND	ND	0.0079	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	0.016	0.025	BRL	ND
delta-BHC	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Dibenz[a,h]anthracene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Dibromochloromethane (Chlorodibromomethane)	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Dieldrin	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Diethylphthalate	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Dimethylphthalate	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Di-n-butylphthalate	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Di-n-octylphthalate	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Endosulfan I (Alpha-endosulfan)	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Endosulfan II (Beta-endosulfan)	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Endosulfan Sulfate	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Endrin	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Endrin Aldehyde	ug/L	BRL	ND	ND	BRL	0.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Ethylbenzene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Fecal Coliforms	MPN/100 mL	>1600	1600	>160,000	>1600	>1600	>160,000	30000	ND	>1600	160000	5000	240	7000	>16000	2000	24000	1600	7000	>16000	>16000	8000	NSF	NSF	>1600	130	300	1300
Fecal Streptococcus	MPN/100 mL	>1600	>1600	>160,000	>1600	>1600	1100	24000	5000	ND	28000	1700	>1600	160000	>16000	22000	17000	>1600	30000	16000	>16000	50000	NSF	NSF	>1600	230	5000	17000
Fluoranthene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Fluorene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
gamma-BHC	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Hardness (As $CaCO_3$)	mg CaCO3/L	100	130	120	110	150	120	74	26	160	98	190	110	220	63	35	170	39	17	190	110	110	NSF	NSF	110	28	19	39
Heptachlor	ug/L	BRL	ND	0.31	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Heptachlor epoxide	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Hexachlorobenzene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Hexachlorobutadiene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND

		Stickfoot Sewer			O St. Storm WaterPump Station			Anacostia High School			Gallatin & 14th St., NE			Varnum and 19th Pl., NE			Nash Run			East Capitol St.			Ft. Lincoln-Newton BMP			Hickey Run		
Parameter	**Units**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**
Hexachlorocyclopentadiene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Hexachloroethane	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Indeno[1,2,3-cd]pyrene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Isophorone	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Lead	mg/L	0.058	0.0062	0.018	0.0050	0.0014	0.0033	0.0070	0.0085	0.0048	ND	0.010	0.0076	0.012	0.0086	0.0056	0.0063	0.0067	0.0019	0.012	0.035	0.012	NSF	NSF	0.057	0.0030	0.0016	0.0039
Mercury	mg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Methylene Chloride	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Naphthalene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Nickel	mg/L	0.023	0.0089	0.013	BRL	ND	ND	0.0063	ND	0.011	ND	0.017	0.013	0.012	ND	ND	ND	ND	ND	0.033	0.027	0.019	NSF	NSF	0.023	ND	BRL	ND
Nitrate/Nitrite as N	mg/L	0.31	0.14	ND	0.20	1.2	ND	ND	ND	1.2	ND	2.7	1.3	0.058	ND	ND	ND	0.10	ND	3.3	BRL	0.065	NSF	NSF	ND	ND	0.14	0.087
Nitrobenzene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Nitrogen, Total	mg/L	2.8	6.0	8.4	2.4	3.8	4.2	3.4	1.4	3.7	1.4	6.0	3.6	4.8	2.0	ND	2.5	3.7	13	4.5	2.0	ND	NSF	NSF	5.3	ND	2.9	ND
N-Nitrosodimethylamine	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
N-Nitroso-di-n-propylamine	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
N-Nitrosodiphenylamine	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Oil & Grease	mg/L	BRL	ND	34	BRL	ND	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
p,p'-DDD	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
p,p'-DDE	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
p,p'-DDT	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
p-Chloro-m-Crestol (4-Chloro-3-methylphenol)	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Pentachlorophenol	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Phenanthrene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Phenol	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Phenolics, Total Recoverable	mg/L	0.016	ND	0.096	0.026	ND	ND	0.011	ND	ND	0.022	0.081	ND	0.030	ND	0.011	0.043	ND	ND	0.078	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Phosphorus, Dissolved (As P)	mg/L	0.13	0.13	0.43	0.13	0.075	0.30	0.060	ND	0.11	0.15	0.10	ND	0.68	ND	ND	0.38	ND	0.24	0.022	BRL	ND	NSF	NSF	ND	0.025	BRL	ND
Phosphorus, Total (As P)	mg/L	0.63	0.38	0.92	0.15	0.48	0.46	0.41	0.16	0.16	0.20	0.39	0.53	0.92	0.42	0.25	0.44	0.46	0.26	0.41	0.42	0.28	NSF	NSF	1.1	0.025	0.068	0.071
Pyrene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND

		Stickfoot Sewer			O St. Storm WaterPump Station			Anacostia High School			Gallatin & 14th St., NE			Varnum and 19th Pl., NE			Nash Run			East Capitol St.			Ft. Lincoln-Newton BMP			Hickey Run		
Parameter	**Units**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**	**Wet 1**	**Wet 2**	**Wet 3**
Selenium	mg/L	BRL	ND	ND	BRL	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Silver	mg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Tetrachloroethene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND	210	120	66	NSF	NSF	ND	ND	BRL	ND
Thallium	mg/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Toluene	ug/L	BRL	ND	1.5	BRL	ND	ND	ND	ND	ND	ND	1.3	ND	1.7	ND	ND	ND	ND	ND	ND	BRL	8.1	NSF	NSF	ND	ND	BRL	ND
Total Dissolved Solids	mg/L	150	530	200	220	480	310	190	64	2000	390	530	430	480	140	100	120	120	46	500	260	240	NSF	NSF	1300	65	110	63
Total Kjeldahl Nitrogen	mg/L	2.5	5.9	8.4	2.2	2.5	4.2	3.4	1.4	2.5	1.4	3.4	2.2	4.8	2.0	ND	2.5	3.6	13	1.1	2.0	ND	NSF	NSF	5.3	ND	2.8	ND
Total Organic Carbon	mg/L	8.5	16	18	12	10	8.4	20	5.3	10	9.9	30	11	45	22	12	36	25	15	5.2	8.0	13	NSF	NSF	17	5.4	4.5	7.5
Total PCBs	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Total Suspended Solids	mg/L	1100	88	290	37	19	48	120	40	18	27	85	41	58	39	16	38	27	14	84	95	82	NSF	NSF	1400	ND	BRL	26
Toxaphene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	n/a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Trichloroethylene	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Vinyl chloride	ug/L	BRL	ND	ND	BRL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BRL	ND	NSF	NSF	ND	ND	BRL	ND
Zinc	mg/L	0.18	0.046	0.13	0.084	0.028	0.051	0.075	0.044	0.059	0.087	0.13	0.11	0.13	0.053	0.030	0.23	0.13	0.037	0.084	0.11	0.097	NSF	NSF	0.25	0.042	0.079	0.044

BRL - below reporting limit
ND - non detect
n/a - not available
NSF - non sufficient flow

Appendix N Dry Weather Samping Results for the Anacostia Watershed
(ROTATION 4- RAW DATA)

		Stickfoot Sewer		O St. Storm Water Pump Station		Anacostia High School		Gallatin & 14th St., NE		Varnum and 19th Pl., NE		Nash Run		East Capitol St.		Ft. Lincoln-Newton BMP		Hickey Run	
Parameter	**Units**	**Dry 1**	**Dry2**	**Dry 1**	**Dry2**	**Dry 1**	**Dry2**	**Dry 1**	**Dry2**	**Dry 1 (NDF)**	**Dry2 (NDF)**	**Dry 1 (NDF)**	**Dry2 (NDF)**	**Dry 1**	**Dry2**	**Dry 1 (NDF)**	**Dry2 (NDF)**	**Dry 1 (NDF)**	**Dry2 (NDF)**
1,1,1-Trichloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
1,1,2,2-Tetrachloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
1,1,2-Trichloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
1,1-Dichloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
1,1-Dichloroethene (1,1-	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
1,2,4-Trichlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
1,2-Dichlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
1,2-Dichloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
1,2-Dichloropropane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
1,2-Diphenylhydrazine	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
1,2-Trans-Dichloroethylene (Trance-1,2-Dichloroethane)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
1,3-Dichlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
1,3-Dichloropropylene (trans-1,3-Dichloropropylene)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
1,4-Dichlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
2,3,7,8-TCDD (Dioxin)	pg/l	ND	ND	ND	ND	BRL	ND	ND	ND					ND	ND				
2,4,6-Trichlorophenol	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
2,4-Dichlorophenol	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
2,4-Dimethylphenol	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
2,4-Dinitrophenol	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
2,4-Dinitrotoluene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
2,6-Dinitrotoluene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
2-Chloroethyl Vinyl Ether	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
2-Chloronaphthalene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
2-Chlorophenol	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
2-Nitrophenol	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
3,3′-Dichlorobenzidine	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
3,4-Benzofluoranthene (Benzo[b]fluoranthene)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
4,6-Dinitro-o-Crestol (4,6-Dinitro-2-methylphenol)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
4-Bromophenyl-phenylether	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
4-Chlorophenyl-phenylether	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
4-Nitrophenol	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Acenaphthene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Acenaphthylene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Acrolein	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Acrylonitrile	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Aldrin	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Alpha-BHC	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Anthracene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Antimony	mg/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Aroclor 1016 (PCB 1016)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Aroclor 1221 (PCB 1221)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Aroclor 1232 (PCB 1232)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Aroclor 1242 (PCB 1242)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Aroclor 1248 (PCB 1248)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Aroclor 1254 (PCB 1254)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Aroclor 1260 (PCB 1260)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Arsenic	mg/L	ND	0.0021	ND	0.0026	ND	ND	ND	ND					0.0035	0.0028				

		Stickfoot Sewer		O St. Storm Water Pump Station		Anacostia High School		Gallatin & 14th St., NE		Varnum and 19th Pl., NE		Nash Run		East Capitol St.		Ft. Lincoln-Newton BMP		Hickey Run	
Parameter	**Units**	**Dry 1**	**Dry2**	**Dry 1**	**Dry2**	**Dry 1**	**Dry2**	**Dry 1**	**Dry2**	**Dry 1 (NDF)**	**Dry2 (NDF)**	**Dry 1 (NDF)**	**Dry2 (NDF)**	**Dry 1**	**Dry2**	**Dry 1 (NDF)**	**Dry2 (NDF)**	**Dry 1 (NDF)**	**Dry2 (NDF)**
Benzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Benzidine	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Benzo(a)anthracene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Benzo[a]pyrene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Benzo[g,h,i]perylene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Benzo[k]fluoranthene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Beryllium	mg/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Beta-BHC	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Bis(2-Chloroethoxy)methane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Bis(2-Chloroethyl)ether	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Bis(2-chloroisopropyl)ether	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Bis(2-Ethylhexyl)phthalate	ug/L	ND	20	ND	ND	ND	ND	ND	ND					ND	6.3				
BOD	mg/L	39	130	3.0	ND	6.3	4.1	14	14					19	13				
Bromodichloromethane (Dichlorobromomethane)	ug/L	ND	ND	ND	ND	2.6	ND	ND	ND					ND	ND				
Bromoform	ug/L	ND	ND	ND	5.0	ND	ND	ND	ND					ND	ND				
Bromomethane (Methyl bromide)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Butylbenzylphthalate	ug/L	ND	5.4	ND	ND	ND	ND	ND	ND					ND	ND				
Cadmium	mg/L	ND	0.00051	ND	ND	ND	ND	ND	ND					0.0027	0.0029				
Carbon Tetrachloride	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Chlordane (Technical Chlordane)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Chlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Chloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Chloroform	ug/L	ND	ND	ND	ND	5.4	ND	ND	ND					ND	ND				
Chloromethane (Methyl chloride)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Chlorophyll a	ug/L	4.1	16	ND	2.0	5.3	ND	2.0	2.0					ND	6.2				
Chromium	mg/L	ND	ND	ND	ND	ND	ND	ND	ND					0.017	0.011				
Chrysene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
cis-1,3-Dichloropropylene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
COD, Total	mg/L	50	280	34	48	ND	ND	24	24					28	160				
Copper	mg/L	0.012	0.020	0.0073	0.037	0.0043	0.0076	0.0067	0.0067					0.061	0.045				
Cyanide, Total	mg/L	0.0050	ND	ND	ND	ND	ND	ND	ND					ND	ND				
		Stickfoot Sewer		**O St. Storm Water Pump Station**		**Anacostia High School**		**Gallatin & 14th St., NE**		**Varnum and 19th Pl., NE**		**Nash Run**		**East Capitol St.**		**Ft. Lincoln-Newton BMP**		**Hickey Run**	
Parameter	**Units**	**Dry 1**	**Dry2**	**Dry 1**	**Dry2**	**Dry 1**	**Dry2**	**Dry 1**	**Dry2**	**Dry 1 (NDF)**	**Dry2 (NDF)**	**Dry 1 (NDF)**	**Dry2 (NDF)**	**Dry 1**	**Dry2**	**Dry 1 (NDF)**	**Dry2 (NDF)**	**Dry 1 (NDF)**	**Dry2 (NDF)**
delta-BHC	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Dibenz[a,h]anthracene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Dibromochloromethane (Chlorodibromomethane)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Dieldrin	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Diethylphthalate	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Dimethylphthalate	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Di-n-butylphthalate	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Di-n-octylphthalate	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Endosulfan I (Alpha-endosulfan)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	0.10				
Endosulfan II (Beta-endosulfan)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Endosulfan Sulfate	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Endrin	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Endrin Aldehyde	ug/L	ND	ND	0.16	ND	ND	ND	ND	ND					ND	ND				
Ethylbenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Fecal Coliforms	MPN/100 mL	>160000	>1600	500	>1600	ND	13000	23	23					130	ND				

		Stickfoot Sewer		O St. Storm Water Pump Station		Anacostia High School		Gallatin & 14th St., NE		Varnum and 19th Pl., NE		Nash Run		East Capitol St.		Ft. Lincoln-Newton BMP		Hickey Run	
Parameter	**Units**	**Dry 1**	**Dry2**	**Dry 1**	**Dry2**	**Dry 1**	**Dry2**	**Dry 1**	**Dry2**	**Dry 1 (NDF)**	**Dry2 (NDF)**	**Dry 1 (NDF)**	**Dry2 (NDF)**	**Dry 1**	**Dry2**	**Dry 1 (NDF)**	**Dry2 (NDF)**	**Dry 1 (NDF)**	**Dry2 (NDF)**
Fecal Streptococcus	MPN/100 mL	>160000	>1600	7.0	900	ND	1100	ND	ND					ND	ND				
Fluoranthene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Fluorene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
gamma-BHC	ug/L	ND	ND	0.11	ND	ND	ND	ND	ND					ND	ND				
Hardness (As $CaCO_3$)	mg CaCO3/L	180	190	250	280	140	160	150	150					310	210				
Heptachlor	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Heptachlor epoxide	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Hexachlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Hexachlorobutadiene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Hexachlorocyclopentadiene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Hexachloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Indeno[1,2,3-cd]pyrene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Isophorone	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Lead	mg/L	0.0014	0.0015	0.0022	0.0065	ND	0.0013	0.0015	0.0015					0.073	0.075				
Mercury	mg/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	0.00027				
Methylene Chloride	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Naphthalene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Nickel	mg/L	0.0088	0.0080	0.049	0.0054	ND	0.010	0.028	0.028					0.13	0.046				
Nitrate/Nitrite as N	mg/L	1.4	ND	2.1	0.30	1.3	1.4	0.10	0.10					0.23	0.071				
Nitrobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Nitrogen, Total	mg/L	17	19	7.7	2.3	1.3	3.1	5.1	5.1					4.4	ND				
N-Nitrosodimethylamine	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
N-Nitroso-di-n-propylamine	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
N-Nitrosodiphenylamine	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Oil & Grease	mg/L	7	ND	ND	ND	ND	ND	ND	ND					ND	ND				
p,p'-DDD	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
p,p'-DDE	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
p,p'-DDT	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
p-Chloro-m-Crestol (4-Chloro-3-methylphenol)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Pentachlorophenol	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Phenanthrene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Phenol	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Phenolics, Total Recoverable	mg/L	0.016	0.024	0.013	ND	ND	0.034	ND	ND					ND	0.028				
Pheophytin a	ug/L	n/a	n/a	ND	ND	n/a	n/a	n/a	n/a					n/a	ND				
Phosphorus, Dissolved (As P)	mg/L	1.3	1.7	0.0045	0.040	0.62	0.034	0.060	0.060					0.014	1.2				
Phosphorus, Total (As P)	mg/L	2.0	2.5	0.067	0.70	0.62	0.15	0.16	0.16					1.3	1.6				
Pyrene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Selenium	mg/L	ND	ND	ND	0.0073	ND	ND	ND	ND					ND	ND				
Silver	mg/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Tetrachloroethene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					170	190				
Thallium	mg/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Toluene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Total Dissolved Solids	mg/L	450	450	690	690	280	400	500	500					530	550				
Total Kjeldahl Nitrogen	mg/L	16	19	5.6	2.0	ND	1.7	5.0	5.0					4.2	ND				
Total Organic Carbon	mg/L	15	29	1.5	3.6	2.1	3.8	3.9	3.9					3.8	2.3				
Total PCBs	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Total Suspended Solids	mg/L	51	82	19	89	19	6.8	24	24					480	540				
Toxaphene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				
Trichloroethylene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					1.4	ND				
Vinyl chloride	ug/L	ND	ND	ND	ND	ND	ND	ND	ND					ND	ND				

		Stickfoot Sewer		O St. Storm Water Pump Station		Anacostia High School		Gallatin & 14th St., NE		Varnum and 19th Pl., NE		Nash Run		East Capitol St.		Ft. Lincoln-Newton BMP		Hickey Run	
Parameter	**Units**	**Dry 1**	**Dry2**	**Dry 1**	**Dry2**	**Dry 1**	**Dry2**	**Dry 1**	**Dry2**	**Dry 1 (NDF)**	**Dry2 (NDF)**	**Dry 1 (NDF)**	**Dry2 (NDF)**	**Dry 1**	**Dry2**	**Dry 1 (NDF)**	**Dry2 (NDF)**	**Dry 1 (NDF)**	**Dry2 (NDF)**
Zinc	mg/L	0.045	0.066	0.022	0.054	0.0050	0.019	0.046	0.046					0.16	0.18				

BRL - below reporting limit
n/a - not available
ND - non detect
NDF - non dry flow