GOVERNMENT OF THE DISTRICT OF COLUMBIA
WASHINGTON, DC

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Rock Creek
Discharge Monitoring Report

Municipal Separate Storm Sewer System
NPDES Permit No. DC0000221

August 19, 2010

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TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

I. INTRODUCTION

The current District of Columbia Municipal Separate Storm Sewer System (DC MS4) Permit No. DC0000221 (Permit) was issued by the U.S. Environmental Protection Agency (EPA) on August 19, 2004. The Permit was administratively extended by letter on August 14, 2009. This report is prepared in partial fulfillment of the monitoring and reporting requirements set forth in Part IV of the Permit.

The Permit requires that three wet weather and two dry weather sampling and analyses be conducted as part of the characterization of the storm water discharges. The sampling schedule followed a watershed based monitoring approach whereby the representative sites within one of the three watersheds are to be sampled within a given calendar year. Table 1-1 below shows the schedule for the most recent cycle of monitoring and reporting for each of the three DC MS4 watersheds.

This document constitutes the Rock Creek watershed discharge monitoring report required by Part IV of the Permit. The required wet weather and two dry weather samples have been collected and analyzed at the six sites in the Rock Creek watershed 2009 monitoring year. The storm water sample collection continued into calendar year 2010. Several factors contributed to limit the number of sampled events within the scheduled calendar year. Rainfall conditions that produce qualifying storm events have been fewer than needed. In other instances the nature of rainfall (intensity or duration) did not allow the collection of sample volume required for the full suite of laboratory analyses. Also, irregularities in the contractor's sampling protocols, discovered in the process, necessitated the re-sampling for some of the wet weather data collection at all three watersheds.

This report contains a description of the Rock Creek watershed monitoring sites, the sampled storm characteristics, the sampling activities, the analytical results at the six sites, and the estimated annual loads for selected parameters. In addition, the entire storm water sampling and analysis dataset for Rock Creek watershed, collected from 2003 to 2010 under the DC MS4 program, were assembled. A tabulation of parameters that were detected in 62 storm water samples and the associated range of concentrations is also presented in this report.

Table 1-1 DC MS4 MONITORING SCHEDULE

	Watershed	Monitoring Year	No. of Stations	DMR Due Date
1	Anacostia River	Calendar year 2008	9	August 19, 2009*
2	Rock Creek	Calendar year 2009	6	August 19, 2010**
3	Potomac River	Calendar year 2010	7	August 19, 2011***

* Completed and submitted to the EPA

** Current Report

*** Sampling underway

II. MONITORING SITES

Part IV.A.1 of the Permit lists the sampling locations for the Rock Creek watershed. Figure 2-1 shows the locations of the monitoring sites. The six monitoring sites and the associated drainage areas are provided in Table 2-1.

The drainage areas and land use types for each representative monitoring site were revised based on the most recent available Geographic Information System (GIS) data. The monitoring site point-layer and existing GIS dataset of the storm water sewer system supplied by the DC Water and Sewer Authority (DC WASA) were used to digitize the drainage area.

The areas drained by all contributing secondary and higher order storm water drains upstream from the monitoring manhole/outfall were delineated. In addition, the 2008 orthophoto and the ground surface elevation GIS data were used to locate the storm water runoff divide to take into account curbs and unsewered areas. The acreage within the perimeter was automatically computed by the geodatabase file system.

The 2004 land use delineation prepared by the DC Office of Planning (OP) was used to represent the land use type within each catchment area. The coverage of each land use type

within a given drainage area was calculated in GIS by intersecting the drainage area polygons with an Existing Land Use polygon layer. Field calculations were then performed. It is important to note that the Rock Creek DC MS4 drainage area excludes large federal lands such as the Naval Air Station and Bolling Air Force Base.

Detailed maps of each of the monitoring sites, the associated drainage area and land use types are included in Appendix A.

TABLE 2-1 ROCK CREEK WATERSHED MONITORING SITES

Site Number	Sampling Location	Drainage Area (Acres)
1	Walter Reed (Ft Stevens)	22.81
2	Military Rd and Beach Dr	24.98
3	Soapstone	320.53
4	Melvin Hazen	168.51
5	Klingle Valley	57.31
6	Normanstone	17.07

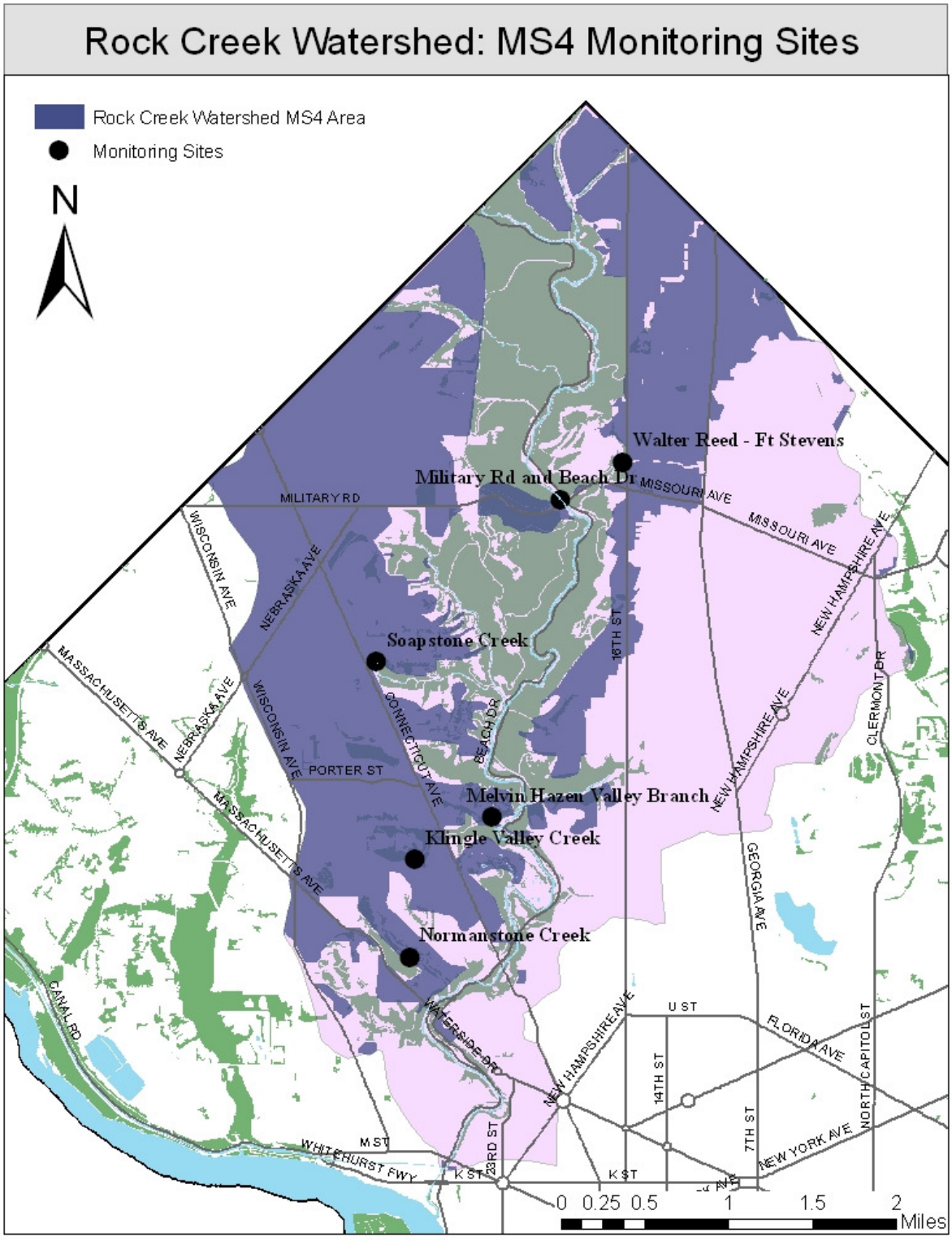


Figure 2-1 Rock Creek Watershed Monitoring Sites

Samples were collected and analyzed in accordance with the Permit and monitoring requirements of 40 CFR 122.26(d)(2)(iii), by the District Department of the Environment (DDOE) contractor, Environmental Design and Construction, Inc. At each of the six Rock Creek sites, three wet weather and two dry weather sampling were conducted. Table 2-2 below lists the sampling event dates for each site.

TABLE 2-2 SUMMARY EVENTS OF WET AND DRY WEATHER SAMPLING AT ROCK CREEK WATERSHED SITES

Site Number	Sampling Location	Wet Weather	Dry Weather
1	Walter Reed (Ft Stevens)	10/15/09 12/13/09 3/26/10	10/7/09 4/21/10
2	Military Rd and Beach Dr	10/15/09 12/13/09 3/26/10	10/7/09NDF 4/21/10
3	Soapstone	10/15/09 12/13/09 3/26/10	10/7/09 4/8/10
4	Melvin Hazen	10/15/09 3/22/10 5/11/10	10/7/09NDF 5/10/10
5	Klingle Valley	10/15/09 12/13/09 3/22/10	12/16/09 4/8/10
6	Normanstone	10/15/09 3/12/10 4/21/10	10/7/09 4/8/10

NDF: No Dry Flow

III. WEATHER INFORMATION

During the monitoring period, October 2009 to May 2010, the precipitation was dominated by snowstorms that delivered record accumulations. About sixty percent (60%) of the rainfall events occurred within 72 hours prior to the rainfall events and were disqualified as rainfall events to be sampled. Adverse field conditions, short duration storms, and spatial distribution of the rainfall imposed additional constraints and limited the number of qualified samples for analysis. Table 3-1 lists the actual and monthly average precipitation readings at the Ronald Reagan National Airport.

TABLE 3-1 PRECIPITATION RECORD FOR WASHINGTON, D.C. AREA

Precipitation			
Month	**Actual (in.)[a]**	**Number of Days in Month with Storms >0.10 in.**	**Monthly Average (in.)**
2009			
September	3.31	5	3.79
October	5.71	9	3.22
November	4.43	10	3.03
December	6.79	11	3.05
2010			
January	1.56	4	3.21
February	2.72	6	2.63
March	3.55	7	3.60
April	1.50	5	2.77
May	2.40	8	3.82

a – gage at Ronald Reagan National Airport

The following is a narrative description of the sampled rainfall events which includes details on the site sampled, rainfall event duration, and the elapsed time between the sampled and prior measurable rainfall events. Table 3-2 lists a summary of the wet weather events.

***October 15, 2009**
This rainfall event enabled the collection of samples at all six sites. A total of 0.57 inches of rain fell. The storm event lasted for approximately 12 hours. The last measurable rainfall occurred about 18 days earlier.

December 13, 2009
Samples were collected at four Rock Creek sites: Battery Kemble, Foundary Branch Dalecarlia, and Tidal Basin. The rainfall event lasted for about 13 hours. A total of 0.43 inches of rain fell during that period. The last measurable rainfall occurred about 4 days prior to this event.

March 12, 2010
The Normanstone site was sampled during this rainfall event. A total of 0.61 inches of rainfall occurred over a duration of about 4.5 hours. The last measurable rainfall occurred about 16 days prior to this event.

March 22, 2010
Samples were collected at two Rock Creek sites: Melvin Hazen and Klingle Valley. A total of 0.53 inches of rainfall occurred over a total of 3 hours duration. The last measurable rainfall occurred about 8 days prior to this event.

March 26, 2010
The sites sampled during this storm event were Walter Reed, Military Road, Soapstone Creek and Klingle Valley. A total of 0.29 inches of rain fell over a period of approximately 10 hours. The last measurable rainfall occurred about 3.5 days prior to this event.

April 21, 2010
The site sampled during this storm event was Normanstone Creek. A total of 0.22 inches of rain fell over a period of approximately 9.5 hours. The last measurable rainfall occurred about 7.5 days prior to this event.

May 11, 2010
The site sampled during this storm event was Melvin Hazen. A total of 0.11 inches of rain fell over a period of approximately 3.5 hours. The last measurable rainfall occurred about 8 days prior to this event.

TABLE 3-2 STORM CHARACTERISTICS FOR ROCK CREEK WATERSHED WET WEATHER SAMPLING EVENTS

Date	Precipitation (in.)	Duration (hrs)	Time to Previous (days)	Sites Sampled
10/15/09	0.57	12	18	1,2,3,4,5,6
12/13/09	0.43	13	4	1,2,3,5
3/12/10	0.61	4.5	16	6
3/22/10	0.53	3	8	4,5
3/26/10	0.29	10	3.5	1,2,3,5
4/21/10	0.22	9.5	7.5	6
5/11/10	0.11	3.5	8	4

IV. SAMPLE COLLECTION AND ANALYSIS

The storm water samples were collected based on the requirement to collect one subset of samples by using grab samples collected during the first 2 hours of the storm event and a separate subset to be collected using time-weighted-average composite technique.

The list of analyzed parameters, the detection limits, and EPA-approved methods utilized are included in Table 4-1.

TABLE 4-1. SAMPLE ANALYSIS REQUIREMENTS FOR WET AND DRY WEATHER SAMPLING

Bottle Type	Sample Type	Parameter	Method	Units	MDL
1-L Plastic Unpreserved	Composite	Biochemical Oxygen Demand (5d) Total Dissolved Solids Total Suspended Solids	SM5210B SM2540C SM2540D	mg/L mg/L mg/L	<5.0 <1.0 <1.0
500 mL Plastic H_2SO_4	Composite	Phosphorus, Total Nitrite + Nitrate Chemical Oxygen Demand Total Kjeldahl Nitrogen	EPA 365.3 EPA 353.2 EPA 410.4 EPA 351.3	mg/L mg/L mg/L mg/L	<0.05 <0.05 <10.0 <0.5
250 mL Plastic, Filtered, H_2SO_4	Composite	Phosphorus, Dissolved	EPA 365.3	mg/L	<0.5

Bottle Type	Sample Type	Parameter	Method	Units	MDL
1000 mL Plastic HNO_3	Composite	Hardness, Total	EPA 130.2	mg/L	
		Antimony, Total	EPA 200.8	µg/L	0.21
		Arsenic, Total	EPA 200.8	µg/L	0.25
		Beryllium, Total	EPA 200.8	µg/L	0.22
		Cadmium, Total	EPA 200.8	µg/L	0.22
		Chromium, Total	EPA 200.8	µg/L	0.18
		Copper, Total	EPA 200.8	µg/L	1.52
		Lead, Total	EPA 200.8	µg/L	0.23
		Mercury, Total (by cold vapor)	EPA 245.1	µg/L	0.20
		Nickel, Total	EPA 200.8	µg/L	0.46
		Selenium, Total	EPA 200.8	µg/L	0.31
		Silver, Total	EPA 200.8	µg/L	0.35
		Thallium, Total	EPA 200.8	µg/L	0.21
		Zinc, Total	EPA 200.8	µg/L	1.52
(2) 1-L Glass Amber	Composite	Dioxin (2,3,7,8) TCDD	EPA 1613	pg/L	4.4
1000 mL Plastic, Sterile	Grab	Fecal Coliform Fecal Streptococcus	SM9221E SM9230B	MPN MPN	
250 mL Plastic, NaOH	Grab	Cyanide, Total	EPA 335.2	mg/L	<0.01
(2) 1-L Glass Amber Unpreserved	Composite	BNA Compounds	EPA 625	µg/L	Various
(2) 40 mL Glass Vials Teflon Lids	Grab	Volatile Organic Compound	EPA 624	µg/L	0.5
1-L Glass Amber H_2SO_4 Teflon Lids	Grab	Phenols, Total	EPA 420.2	mg/L	1.9
1-L Glass Amber H_2SO_4 Teflon Lids	Composite	PCBs / Pesticides	EPA 608	µg/L	0.01-1.7
1-L Glass Amber Teflon Lids	Composite	PCBs	EPA 8082 modified	ng/L	0.25-5.0
1-L Glass Amber 1:1 HCl	Grab	Fats (oil and grease)	EPA 1664	mg/L	1.6
100 mL Plastic	Composite	Chlorophyll-a	SM 10020H2	mg/m^3	2
500 mL Plastic H_2SO_4	Composite	Total Ammonia + Organic Nitrogen (TKN)	EPA 351.3	mg/L	0.2
	Field Test	Dissolved Oxygen	EPA 360.1	mg/L	N/A
500 mL Plastic H_2SO_4	Composite	Total Nitrogen		mg/L	N/A

V. RECORD KEEPING

DDOE Water Quality Division (WQD) maintains the records of monitoring information including:

- Description of Sampling

  - Sampling protocols
  - Location/Collection time
  - Sample collection procedures
  - Field notes
  - Environmental Design & Construction, DC MS4 sampling personnel

- Storm Event Data

  - Date and duration of storm events sampled
  - Rainfall measurements
  - Duration between storm event sampled and the end of the previous measurable storm event
  - Estimate of the total volume of the discharge sampled

- Storm Water Analysis Data

  - Field test results
  - Laboratory results

VI. MONITORING RESULTS

In this section, the ambient storm water quality and sampling and analysis results for selected parameters are presented. Results from wet weather sampling events for selected parameters are also reported on EPA Form 3320-1 Discharge Monitoring Report included in Appendix B. The complete analytical results are contained in Appendix C.

Table 6-1 and Table 6-2 show the ambient water quality results for the wet weather and dry weather sampling, respectively. The results for selected parameters are also presented. The geometric mean of each parameter was calculated as an estimate of the average Event Mean Concentration (EMC). The EMCs for the wet and dry sampling events are shown in Table 6-3 and Table 6-4, respectively.

Table 6-1 AMBIENT WATER QUALITY DATA FOR ROCK CREEK SITES - WET WEATHER SAMPLING EVENTS

Site ID	Location	Date	Water Temp (°C)	pH	DO (mg/l)	TRC (mg/L)	Conductivity (µS)
1	Walter Reed (Ft Stevens)	10/15/09	13.0	7.2	10.1	<0.03	--
		12/13/09	7.8	7.0	--	<0.03	1,300
		3/26/10	14.4	7.93	8.49	--	1,300
2	Military Rd and Beach Dr	10/15/09	11.9	7.3	9.8	<0.03	--
		12/13/09	7.7	7.2	--	<0.03	18,000
		3/26/10	11.4	6.9	8.52	<0.03	2,400
3	Soapstone	10/15/09	14.1	7.66	10.82	--	139.6
		12/13/09	11.9	7.9		<0.03	1,500
		3/26/10	14.7	7.0	8.67	<0.03	850
4	Melvin Hazen	10/15/09	12.8	6.9	6.5	<0.03	--
		3/22/10	16.6	8.1	9.15	--	ND
		5/11/10	15.6	7.82	9.26	0.18	536
5	Klingle Valley	10/15/09	15.1	8.45	--	--	130
		12/13/09	12.5	7.8	--	<0.03	570
		3/22/10	14.6	7.77	9.12	--	ND
6	Normanstone	10/15/09	15.2	7.44	8.79	--	245
		3/12/10	12.8	7.6	12.2	--	700
		4/21/10	13.8	8.02	6.25	--	774

ND – None detected
-- Data not available

Table 6-2 AMBIENT WATER QUALITY DATA FOR ROCK CREEK SITES - DRY WEATHER SAMPLING EVENTS

Site No.	Location	Date	Water Temp (°C)	pH	DO	TRC (mg/L)	Cond (µS)
1	Walter Reed (Ft Stevens)	10/7/09	16.9	7.1		<0.03	--
		4/21/10	13.5	6.5	10.1	<0.03	1520
2	Military Rd and Beach Dr	NDF					
		4/21/10	11.4	6.9	10.1	<0.03	1240
3	Soapstone	10/7/09	19.6	7.9	--	<0.03	--
		4/8/10	16.2	6.9	10.1	<0.03	975
4	Melvin Hazen	NDF					
		5/10/10	17.2	7.71	7.3	0.5	750
5	Klingle Valley	12/16/09	18.5	7.2	120.0	<0.03	860
		4/8/10	14.4	6.8	10.5	<0.03	765
6	Normanstone	10/7/09	16.6	7.4	--	<0.03	--
		4/8/10	14.3	6.8	10.3	<0.03	845

NDF – No Dry Flow
-- Data not available

Wet Weather Events

Rock Creek watershed sites 1 through 6 were sampled for wet weather flows during the period of June 2009 to May 2010. The geometric mean of the analytical results for each sample station is provided for twenty priority pollutants in Table 6-3. The highest mean concentration of total suspended solids (TSS) was reported at Military Road site (126.4 mg/L), and the lowest was reported at Soapstone (21.4 mg/L). All other stations had TSS concentrations between 24.9 and 60.3 mg/L. The Melvin Hazen site had the highest biochemical oxygen demand (BOD) concentrations (26.6 mg/L) among all stations, while all other stations ranged from 12.1 (Soapstone) to 17.7 mg/L (Klingle Valley). Total nitrogen (TN) concentrations from Rock Creek stations ranged from 0.32 (Soapstone) to 5.07 mg/L (Normanstone) and total phosphorus (TP) concentrations ranged from 0.05 (Military Road) to 0.55 mg/L (Melvin Hazen). The Soapstone site had the highest Fecal coliform (FC) concentration at 47,622 MPN/100 ml, all other Rock Creek stations had FC concentrations ranging from 861 (Military Road) to 32,269 MPN/100 ml (Walter Reed). Oil and grease (O&G) was detected at low levels at four sites. The concentrations ranged from 3.04 mg/L (Soapstone) to 2.51 mg/L (Walter Reed). High concentrations of zinc (Zn) (15.6 to 128.6

µg/L) and copper (11.1 to 146.0 µg/L) were measured at all monitoring sites. Lead (Pb) was not detected at two monitoring sites (Walter Reed and Soapstone), at the remaining sites, the concentrations ranged from 4.21 µg/L (Melvin Hazen) to 183.6 µg/L (Klingle Valley). Arsenic (As) was only detected at the Military Road site (4.25 µg/L). None of the stations had detectable concentrations for PAHs, chlordane, heptachlor, dieldrin, DDT, DDE, DDD, or PCBs. Complete analytical results are included in Appendix C.

Dry Weather Events

Dry weather flow grab samples from six stations were analyzed. The results are presented in Table 6-4.

FC counts ranged from 800 to 5,000 MPN/100 ml at five sites. No FC was detected at the Military Road site. The highest concentrations of TSS, BOD, TN, TP, Zn and Pb were recorded at the Melvin Hazen site. O&G was measured at 2.57 mg/L in only one sample at Soapstone Creek site. None of the sites had detectable concentrations of As, PAHs, chlordane, heptachlor, dieldrin, DDT, DDE, or DDD, and PCBs.

TABLE 6-3 SUMMARY DATA OF WET WEATHER EVENTS (2009-2010) FROM SIX ROCK CREEK MONITORING STATIONS.

VALUES REPRESENT GEOMETRIC MEAN FOR EACH STATION.

Parameters (mg/L, unless otherwise noted)																			
Station	**TSS**	**BOD**	**TN**	**TP**	**FC[a]**	**O&G**	**Zn[bc]**	**Pb[bc]**	**Cu[bc]**	**As[bc]**	**PAH 1[c]**	**PAH 2[c]**	**PAH 3[c]**	**Chlordane[c]**	**Heptachlor[c]**	**Dieldrin[c]**	**DDT[c]**	**DDE[c]**	**DDD[c]**	**PCBs[c]**
Walter Reed	31.1 (n=3)	14.2 (n=3)	4.29 (n=3)	0.22 (n=3)	32,269 (n=3)	2.51[d] (n=3)	45.2 (n=3)	ND (n=3)	11.1 (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)
Military Rd. and Beach Dr.	126.4 (n=3)	14.2 (n=3)	4.90 (n=3)	0.05[d] (n=3)	861.8[d] (n=3)	2.57[d] (n=3)	15.6[d] (n=3)	6.17[d] (n=3)	41.1 (n=3)	4.25[d] (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)
Soapstone	21.4 (n=3)	12.1 (n=3)	0.32[d] (n=3)	0.28 (n=3)	47,622 (n=3)	3.04[d] (n=3)	50.3 (n=3)	ND (n=3)	21.5 (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)
Melvin Hazen	48.6 (n=3)	26.6 (n=3)	3.21 (n=3)	0.55 (n=3)	8,203 (n=3)	2.69 [d] (n=3)	128.6 (n=3)	4.21[d] (n=3)	49.3 (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=2)
Klingle Valley	24.9 (n=3)	17.7 (n=3)	3.72 (n=3)	0.35 (n=3)	28,845 (n=3)	ND[d] (n=3)	51.4 (n=3)	183.6 (n=3)	54.8 (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=2)
Normanstone	60.3 (n=3)	14.0 (n=3)	5.07 (n=3)	0.45 (n=3)	5,000 (n=3)	ND[d] (n=3)	84.8 (n=3)	15.3[d] (n=3)	146.0 (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=1)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=3)	ND (n=2)

TSS: total suspended solids; BOD: biological oxygen demand; TN: total nitrogen; TP: total phosphorus; FC: fecal coliform bacteria; O&G: oil and grease; PCB: total PCBs
ND: none-detected
[a]Units are in MPN/100ml
[b]Total recoverable metals
[c]Units are in µg/L
[d]geometric mean was calculated using half of detection limit or reporting limit if the analysis results show “none detected” or “below reporting limit”

TABLE 6-4 SUMMARY DATA OF DRY WEATHER EVENTS (2009-2010) FROM SIX ROCK CREEK MONITORING STATIONS.
VALUES REPRESENT GEOMETRIC MEAN FOR EACH STATION.

Parameters (mg/L, unless otherwise noted)																			
Station	**TSS**	**BOD**	**TN**	**TP**	**FC[a]**	**O&G**	**Zn[bc]**	**Pb[bc]**	**Cu[bc]**	**As[bc]**	**PAH 1[c]**	**PAH 2[c]**	**PAH 3[c]**	**Chlordane[c]**	**Heptachlor[c]**	**Dieldrin[c]**	**DDT[c]**	**DDE[c]**	**DDD[c]**	**PCBs[c]**
Walter Reed	ND (n=2)	2.05 (n=2)	1.77 (n=2)	0.15 (n=2)	3,578 (n=2)	ND[d] (n=2)	ND[d] (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)
Military Rd. and Beach Dr.	4.00 (n=1)	ND (n=1)	ND (n=1)	0.027 (n=1	ND (n=1)	ND (n=1)	ND (n=1)	ND (n=1)	3.90 (n=1)	ND (n=1)	ND (n=1)	ND (n=1)	ND (n=1)	ND (n=1)	ND (n=1)	ND (n=1)	ND (n=1)	ND (n=1)	ND (n=1)	ND (n=1)
Soapstone	8.49[d] (n=2)	1.97[d] (n=2)	0.09[d] (n=2)	0.33 (n=2)	4,195 (n=2)	2.57[d] (n=2)	3.92[d] (n=2)	ND (n=2)	1.19[d] (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)
Melvin Hazen	160.0 (n=1)	6.60 (n=1)	4.50 (n=1)	0.50 (n=1)	800 (n=1)	ND (n=1)	43.0 (n=1)	11.0 (n=1)	14.0 (n=1)	ND (n=1)	ND (n=1)	ND (n=1)	ND (n=1)	ND (n=1)	ND (n=1)	ND (n=1)	ND (n=1)	ND (n=1)	ND (n=1)	ND (n=1)
Klingle Valley	3.35[d] (n=2)	3.61[d] (n=2)	2.63 (n=2)	0.20 (n=2)	5,000 (n=2)	ND (n=2)	4.81[d] (n=2)	10.4[d] (n=2)	14.6 (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)
Normanstone	ND (n=2)	ND (n=2)	0.07[d] (n=2)	0.04 (n=2)	2,828 (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	0.58[d] (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)	ND (n=2)

TSS: total suspended solids; BOD: biological oxygen demand; TN: total nitrogen; TP: total phosphorus; FC: fecal coliform bacteria; O&G: oil and grease; PCB: total PCBs
ND: none-detected
[a]Units are in MPN/100ml
[b]Total recoverable metals
[c]Units are in µg/L
[d]geometric mean was calculated using half of detection limit or reporting limit if the analysis results show “none detected” or “below reporting limit

VII. ESTIMATES OF CUMMULATIVE POLLUTANT LOADINGS

The annual pollutant loads for each sewershed sampled were calculated using the Simple Method (EPA, 1992) utilizing the wet weather EMCs, the total drainage area, and land use distribution within each sewershed. The Simple Method can estimate pollutant loads without extensive rainfall-runoff volume data using the sample analysis results available. Generally, the Simple Method is expected to overestimate pollutant loads as compared to more dynamic models that incorporate pollutant concentration and runoff coefficients as functions of initial conditions and rainfall intensity and duration in estimating total pollutant loads.

The Simple Method is given by the following equation:

$$L = \sum_{i=1}^{\text{No. of landuse types}} \left(\frac{P}{12} \times CF \times Rv_i \times C_i \times A_i \times 2.72 \right) \qquad \textbf{(Equation 1)}$$

where

L = pollutant loading (lb/year for chemical constituents, MPN/yr for bacteria)

P = average annual rainfall (inches)

CF = Correction factor (0.9) to adjust for storms where no runoff occurs (dimensionless) (EPA 1992)

Rv_i = runoff coefficient for the land use type (dimensionless)

C_i = average event mean concentration (mg/L for chemical constituents)

A_i = land use area (acres)

2.72 = unit conversion factor for chemical constituents in concentration units of mg/L; 12,334,885 for bacteria in units of MPN/100 mL.

The average EMC for each monitoring station was calculated as the geometric mean of the measured EMCs (*Urban Stormwater BMP Performance Monitoring: Guidance Manual,* ASCE/EPA, 2002).

$$C = \text{Geomean of EMCs} = \left[\prod_{j=1}^{m} EMC_j\right]^{\frac{1}{m}} \qquad \textbf{(Equation 2)}$$

Where:

EMC_j = Event Mean Concentration of storm *j*

m = Number of storms at monitoring location

The annual precipitation for the District of Columbia region is 39.35 inches as reported by the National Weather Service (NWS) weather station at Washington National Airport (COOP ID: 448906). The sewershed area was obtained from the sewershed coverage. A key parameter in Equation 1 is the runoff coefficient (Rvi), which is directly related to imperviousness and land use. Surface area for each land use type, and the associated runoff coefficients for each sewershed are presented in Appendix D. The pollutant loading was calculated using Equation 1 above. Table 7-1 presents the annual loads for pollutants specified in 40 CFR 122.21(g)(7). Also included are the annual loads for Fecal Coliform Bacteria and Oil and Grease.

Based upon the pollutant loadings calculated for six District of Columbia Rock Creek watershed monitoring sites, a cumulative load for the entire District of Columbia portion of the Rock Creek watershed was estimated. This cumulative load assumes that the six sampling sites are representative of the watershed. Given this assumption, a simple ratio is used to compute a cumulative load for the Rock Creek watershed as follows:

$$L_A = \left(\frac{\sum L_i}{\sum A_t}\right)(A_t) \qquad \textbf{(Equation 3)}$$

L_A = Rock Creek watershed cumulative pollutant load (lb/year)

A_t = Rock Creek watershed total area (acres)

L_i = Pollutant loading for each monitoring site (lb/year)

A_i = Acreage for each monitoring site (acres)

Table 7-2 contains the computed pollutant loads from each of the contributing sub-watersheds draining to the monitoring sites.

Also included are the estimated pollutant loads carried by storm water discharges draining from the DC MS4 area to the Rock Creek watershed.

Table 7-1 Rock Creek Watershed Storm Water Pollutant Concentration

Event Mean Concentrations for Designated Parameters (mg/L unless otherwise noted)														
Station	**BOD**	**COD**	**TDS**	**TSS**	**TN**	**TKN**	**TP**	**DP**	**FC[a]**	**O&G**	**Cd[b]**	**Cu[b]**	**Pb[b]**	**Zn[b]**
Walter Reed	14.2 (n=3)	67.3 (n=3)	229.5 (n=3)	31.1 (n=3)	4.29 (n=3)	2.82 (n=3)	0.22 (n=3)	0.14 (n=3)	32,269 (n=3)	2.51[c] (n=3)	0.00047[c] (n=3)	0.011 (n=3)	ND (n=3)	0.045 (n=3)
Military Rd. and Beach Dr.	14.2 (n=3)	166.3 (n=3)	360.9[c] (n=3)	126.4 (n=3)	4.90 (n=3)	4.42 (n=3)	0.05[c] (n=3)	0.088 (n=3)	861.8[c] (n=3)	2.57[c] (n=3)	0.0012[c] (n=3)	0.041 (n=3)	0.0062[c] (n=3)	0.016[c] (n=3)
Soapstone	12.1 (n=3)	64.3 (n=3)	291.5 (n=3)	21.4 (n=3)	0.32[c] (n=3)	1.58[c] (n=3)	0.28 (n=3)	0.17 (n=3)	47,622 (n=3)	3.04[c] (n=3)	0.00031[c] (n=3)	0.022 (n=3)	ND (n=3)	0.05 (n=3)
Melvin Hazen	26.6 (n=3)	89.6 (n=3)	236.5 (n=3)	48.6 (n=3)	3.21 (n=3)	3.19 (n=3)	0.55 (n=3)	0.44 (n=3)	8,203 (n=3)	2.69 (n=3)	ND (n=3)	0.049 (n=3)	0.0042[c] (n=3)	0.13 (n=3)
Klingle Valley	17.7 (n=3)	67.8 (n=3)	147.7 (n=3)	24.9 (n=3)	3.72 (n=3)	3.21 (n=3)	0.35 (n=3)	0.32 (n=3)	28,845 (n=3)	ND[c] (n=3)	0.00022[c] (n=3)	0.055 (n=3)	0.18 (n=3)	0.051 (n=3)
Normanstone	14.0 (n=3)	131.0 (n=3)	250.3 (n=3)	60.3 (n=3)	5.07 (n=3)	4.29 (n=3)	0.45 (n=3)	0.25 (n=3)	5,000 (n=3)	ND[c] (n=3)	0.00034[c] (n=3)	0.15 (n=3)	0.015 (n=3)	0.085 (n=3)

[a]Units are in MPN/100mls
[b]Total Recoverable Metals
[c]geometric mean was calculated using half of detection limit or reporting limit if the analysis results show "none detected" or below reporting limit"
ND: none-detected

Table 7-2 Rock Creek Watershed Storm Water Annual Pollutant Loading

Loadings for Designated Parameters (Lbs./year unless otherwise noted)														
Site	**BOD**	**COD**	**TDS**	**TSS**	**TN**	**TKN**	**TP**	**DP**	**Cd[a]**	**Cu[a]**	**Pb[a]**	**Zn[a]**	**O&G**	**FC[b]**
Walter Reed	2,095	9,928	33,854	4,588	633	416	32	21	0.0693	1.62	ND	6.64	370.26	2.15865E+13
Military Rd. and Beach Dr.	1,026	12,020	26,086	9,136	354	319	4	6	0.0867	2.96	0.45	1.16	185.76	2.82482E+11
Soapstone	21,500	114,253	517,957	38,025	569	2,807	498	302	0.5508	39.09	ND	88.84	5,401.68	3.83733E+14
Melvin Hazen	25,213	84,929	224,171	46,067	3,043	3,024	521	417	ND	46.45	3.98	123.22	2,549.77	3.52605E+13
Klingle Valley	5,961	22,835	49,745	8,386	1,253	1,081	118	108	0.0741	18.52	60.62	17.18	ND	4.40563E+13
Normanstone	1,153	10,787	20,611	4,965	417	353	37	21	0.0280	12.35	1.24	7.00	ND	1.86715E+12
Cumulative Load for all Monitoring Sites (lbs/year)	56,949	254,752	872,425	111,167	6,269	8,001	1,210	875	0.809	121.00	66.29	244.04	8,507.46	4.9.E+14
Rock Creek MS4 Load Estimates (lbs/year)	378,778	1,694,411	5,802,689	739,397	41,694	53,216	8,047	5,817	5.381	804.79	440.90	1,623.15	56,585.02	3.2E+15

[a]Total Recoverable Metals
[b]Units are in MPN/yr
ND: none detected

VIII. WATER QUALITY TRENDS

The DC MS4 permit requires that watersheds be sampled on a rotating basis. The Rock Creek watershed monitoring sites were sampled for two rounds during this permit cycle. The results of the analyses for the first round (2005-2006) and the second round (2009-2010) are reported in the DMR dated August 19, 2006 and Appendix C of this report, respectively.

The calculated EMC data of selected storm water quality parameters for the two rotations are presented in Table 8-1 for comparison purposes. The data indicate that BOD, TP, DP, TSS, Zn, copper (Cu) and O&G either decreased or remained at the same level between both rotations. The concentrations for TN and Pb were slightly higher in the second round. Total dissolved solids (TDS), total kjeldhal nitrogen (TKN) and FC increased by about 60, 100 and 80 percent, respectively.

Careful consideration is necessary when interpreting these results, as slight variations in analytical techniques, detection limits, sample size, and computation methodologies make it difficult to establish a trend from the results from the two rounds.

To supplement the water quality observation, the entire storm water quality data collected under the DC MS4 program for the Rock Creek watershed was examined. A total of eighty three (83) wet weather samples collected from 2003 to 2010 in the Rock Creek watershed constitute the data set. Please note that the samples were note collected on a regular annual basis. Table 8-2 contains the parameters that were detected and the range of concentrations for those parameters.

Five types of Volatile Organic Compounds (VOCs) were detected. Toluene was the most prevalent in this category, occurring at all Rock Creek sites, except Klingle Valley. Three acid extractable compounds were detected. Most incidences of this compound were at the Soapstone Creek monitoring site. Bis(2-ethylhexyl)phthalate is the most prevalent of the Base/Neutral Extractable Compounds, occurring at all Rock Creek monitoring sites.

Pesticides occurred at lower frequency, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD were detected at five monitoring sites. Both 4,4'-DDE and 4,4'-DDD were found at the Soapstone creek site.

Cyanide (Cn), Phenols and several metals were detected at varying frequencies and concentrations. Both Arsenic (As) and Mercury (Hg) were recorded at the Soapstone Creek monitoring site. Lead (Pb) was measured in over forty five percent of the samples, the highest occurring at the Klingle Valley monitoring site. Chromium (Cr), Copper (Cu), Nickel (Ni) and Zinc (Zn) are relatively ubiquitous. Among the conventional pollutants, Fecal coliform (FC) was detected at higher frequencies and concentrations.

Table 8-1 COMPARISON OF EVENT MEAN CONCENTRATIONS

Average of Event Mean Concentrations for Designated Parameters (mg/L unless otherwise noted)														
	BOD	**COD**	**TDS**	**TSS**	**TN**	**TKN**	**TP**	**DP**	**FC[a]**	**O&G**	**Cd[b]**	**Cu[b]**	**Pb[b]**	**Zn[b]**
2003 - 2005	28.62	92.67	156.47	55.17	3.11	1.56	0.33	0.24	11,238	6.0	0.41	58.53	30.48	107.22
2009 - 2010	16.47	97.71	252.73	52.12	3.58	3.25	0.32	0.24	20,467	2.38	0.42	53.97	34.87	62.64

[a] Units are in MPN/100 ml
[b] Units are in µg/L

Table 8-2. DETECTED PARAMETERS IN THE ROCK CREEK RIVER WATERSHED (From 83 storm water sampling events 2003 thru 2010)

Detected Parameters	Unit	Range	
(A) Volatile Organic Compounds		**From**	**To**
Benzene	µg/l	5.3	5.3
Chloroform	µg/l	0.63	5
1,3-Dichloropropylene (trans-1,3-Dichloropropene)	µg/l	500	1,300
Ethylbenzene	µg/l	3.5	3.5
Toluene	µg/l	0.42	22
(B) Acid Extractable Compounds			
4- Nitrophenol	µg/l	1.3	2.9
Pentachlorophenol	µg/l	11	11
Phenol	µg/l	1.1	1.1
(C) Base/Neutral Extractable Compounds			
Benzo(a)anthracene	µg/l	6.3	6.3
Bis(2-ethylhexyl)phthalate	µg/l	0.8	32
Butylbenzylphthalate	µg/l	4.1	4.1
Chrysene	µg/l	0.62	0.65
1,4- Dichlorobenzene	µg/l	11	11
Dibenzo(a,h)anthracene	µg/l	3.4	3.4
Diethylphthalate	µg/l	3.1	84
Di-n-butylphthalate	µg/l	1.6	5.6
Napthalene	µg/l	1.7	1.7
Pyrene	µg/l	0.84	0.88
(D) Pesticides/PCBs			
4,4'-DDT	µg/l	0.012	0.012
4,4'-DDE	µg/l	0.002	0.07
4,4'-DDD	µg/l	0.005	0.009

Table 8-2. (cont.) DETECTED PARAMETERS IN THE ROCK CREEK RIVER WATERSHED (From 83 storm water sampling events 2003 thru 2010)

Detected Parameters	Unit	Range	
(D) Pesticides/PCBs (Cont.)		From	To
Dieldrin	µg/l	0.0015	0.013
Endrin	µg/l	0.004	0.004
Heptachlor epoxide	µg/l	0.004	0.004
(E) Metals, Cyanide, and Phenols			
Antimony, Total	mg/l	0.0015	0.05
Arsenic, Total	mg/l	0.0015	0.034
Beryllium, Total	mg/l	0.00012	0.0013
Cadmium, Total	mg/l	0.0005	0.031
Chromium, Total	mg/l	0.0005	0.058
Copper, Total	mg/l	0.0028	0.36
Lead, Total	mg/l	0.003	0.28
Mercury, Total	mg/l	0.0002	0.0014
Nickel, Total	mg/l	0.003	0.11
Selenium, Total	mg/l	0.002	0.067
Silver, Total	mg/l	0.001	0.002
Thallium, Total	mg/l	0.002	0.255
Zinc, Total	mg/l	0.017	0.344
Cyanide, Total	mg/l	0.01	0.047
Phenols, Total	mg/l	0.00012	0.54
(F) Conventional Pollutants			
Total suspended solids	mg/l	5	2,600
Total dissolved solids	mg/l	30	4,700
COD	mg/l	0.043	510
BOD_5	mg/l	2	110
Oil and Grease	mg/l	2.8	16
Fecal Coliform	MPN/100mls	2	3,000,000

Table 8-2. (cont.) DETECTED PARAMETERS IN THE ROCK CREEK RIVER WATERSHED (From 83 storm water sampling events 2003 thru 2010)

Detected Parameters	Unit	Range	
(F) Conventional Pollutants (Cont.)		**From**	**To**
Fecal Streptococcus	MPN/100ml	2	1,100,000
Total Kjeldahl Nitrogen (TKN)*	mg/l	0.48	780
Nitrate + Nitrite ($NO_2 + NO_3$)	mg/l	0.064	22
Dissolved Phosphorous	mg/l	0.00009	1.1
Total Phosphorous (TP)	mg/l	0.076	13

APPENDIX A

ROCK CREEK WATERSHED

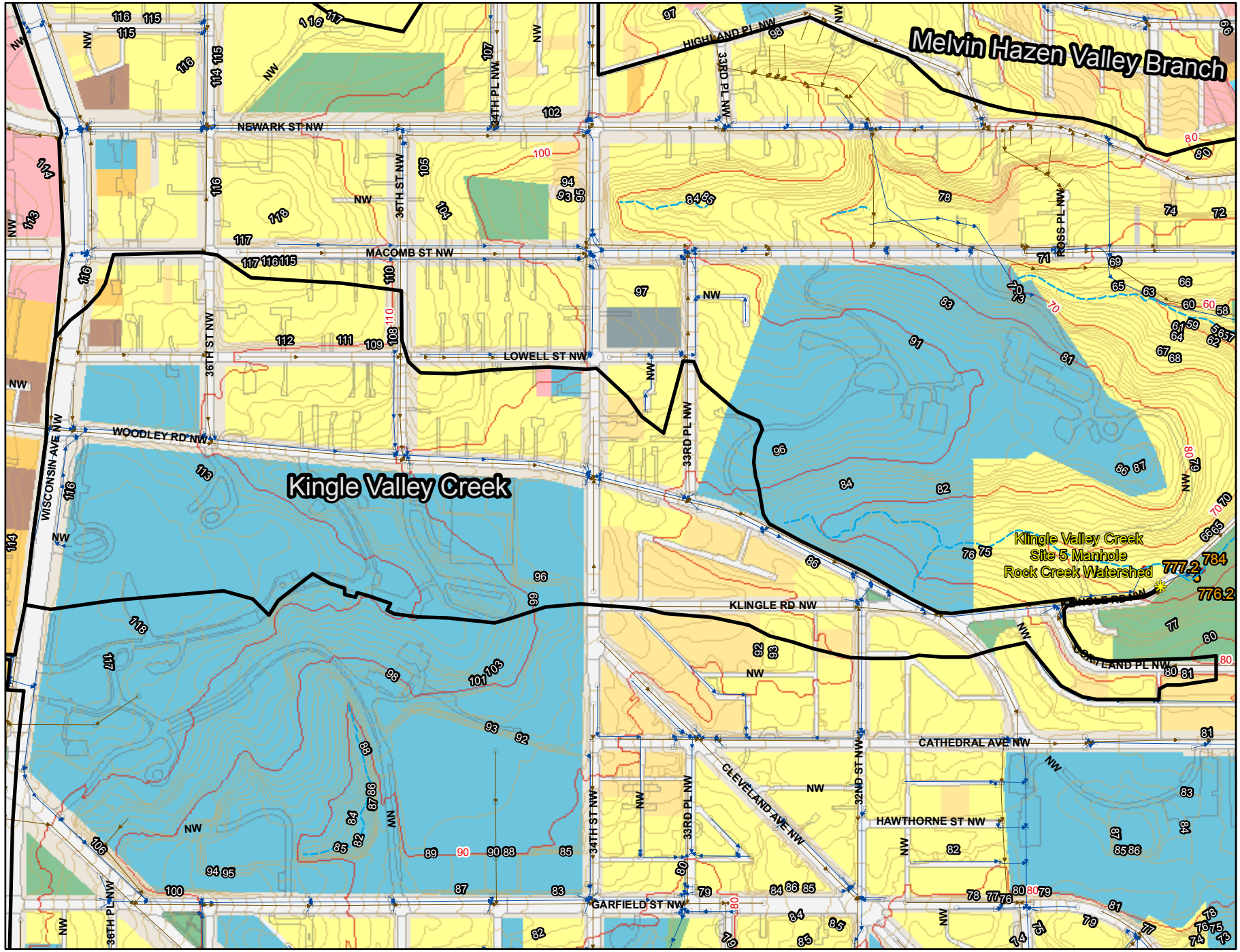
MONITORING SITES

Kingle Valley Creek

Site# 5

Rock Creek Watershed

0 255 510 1,020 Feet



Legend

- Monitoring Sites (WQMS)
- WQMS Drainage Area
- Anacostia MS4 Outfall
- Potomac MS4 Outfall
- Rock Creek MS4 Outfall
- Sewer Outfall
- Sewer Catch Basin
- Sewer Manhole

Sewer Gravity Main

FlowType

- Storm
- Combined Storm/Wastewater
- Sanitary
- DCGIS.HydroCenterLineLn
- 10m Topo
- 1m Topo
- DCGIS.RoadPly
- District Boundary

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

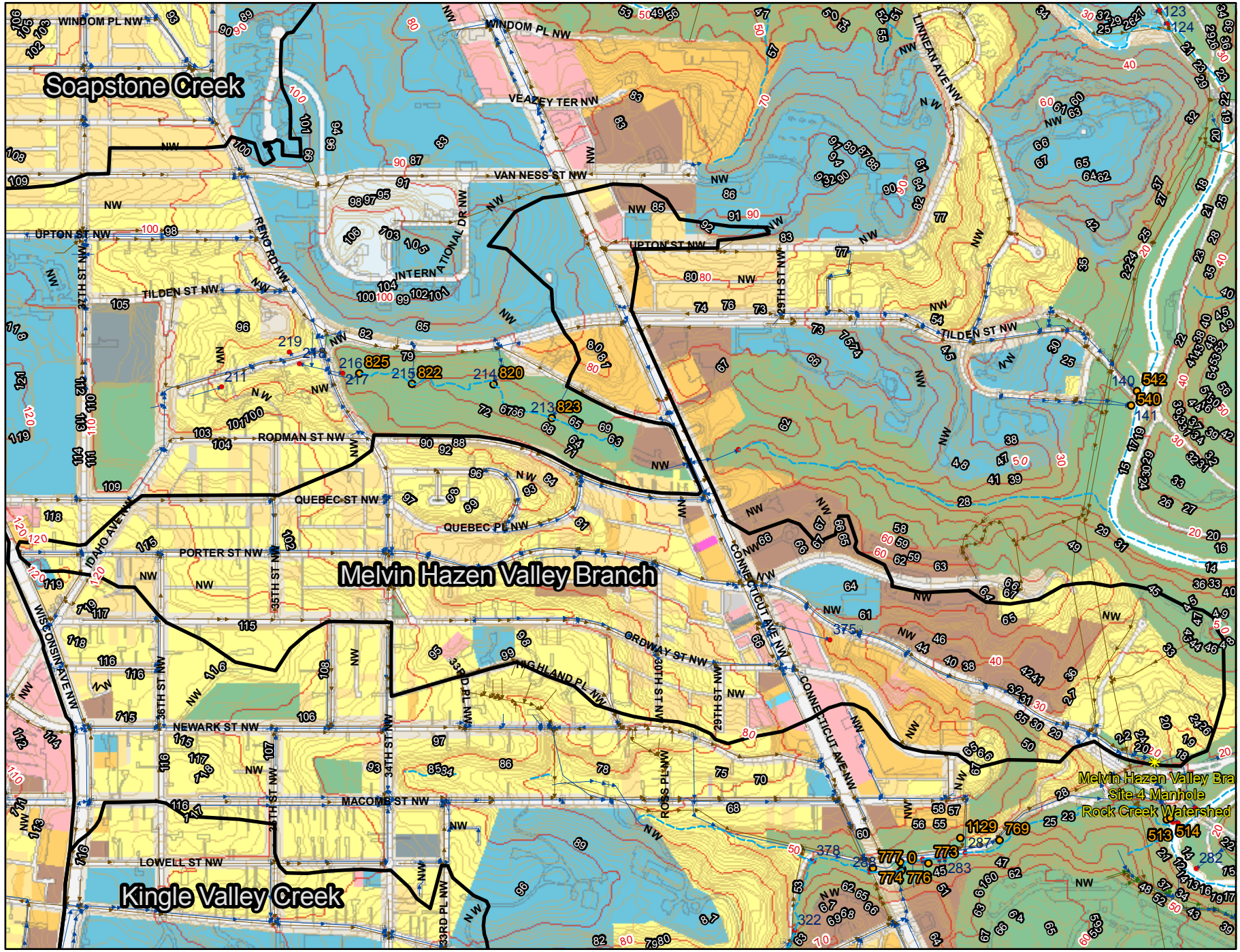
Aug 05, 2009

Melvin Hazen Valley Branch

Site# 4

Rock Creek Watershed

0 430 860 1,720 Feet



Legend

- Monitoring Sites (WQMS)
- WQMS Drainage Area
- Anacostia MS4 Outfall
- Potomac MS4 Outfall
- Rock Creek MS4 Outfall
- Sewer Outfall
- Sewer Catch Basin
- Sewer Manhole

Sewer Gravity Main

FlowType

- Storm
- Combined Storm/Wastewater
- Sanitary
- DCGIS.HydroCenterLineLn
- 10m Topo
- 1m Topo
- DCGIS.RoadPly
- District Boundary

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

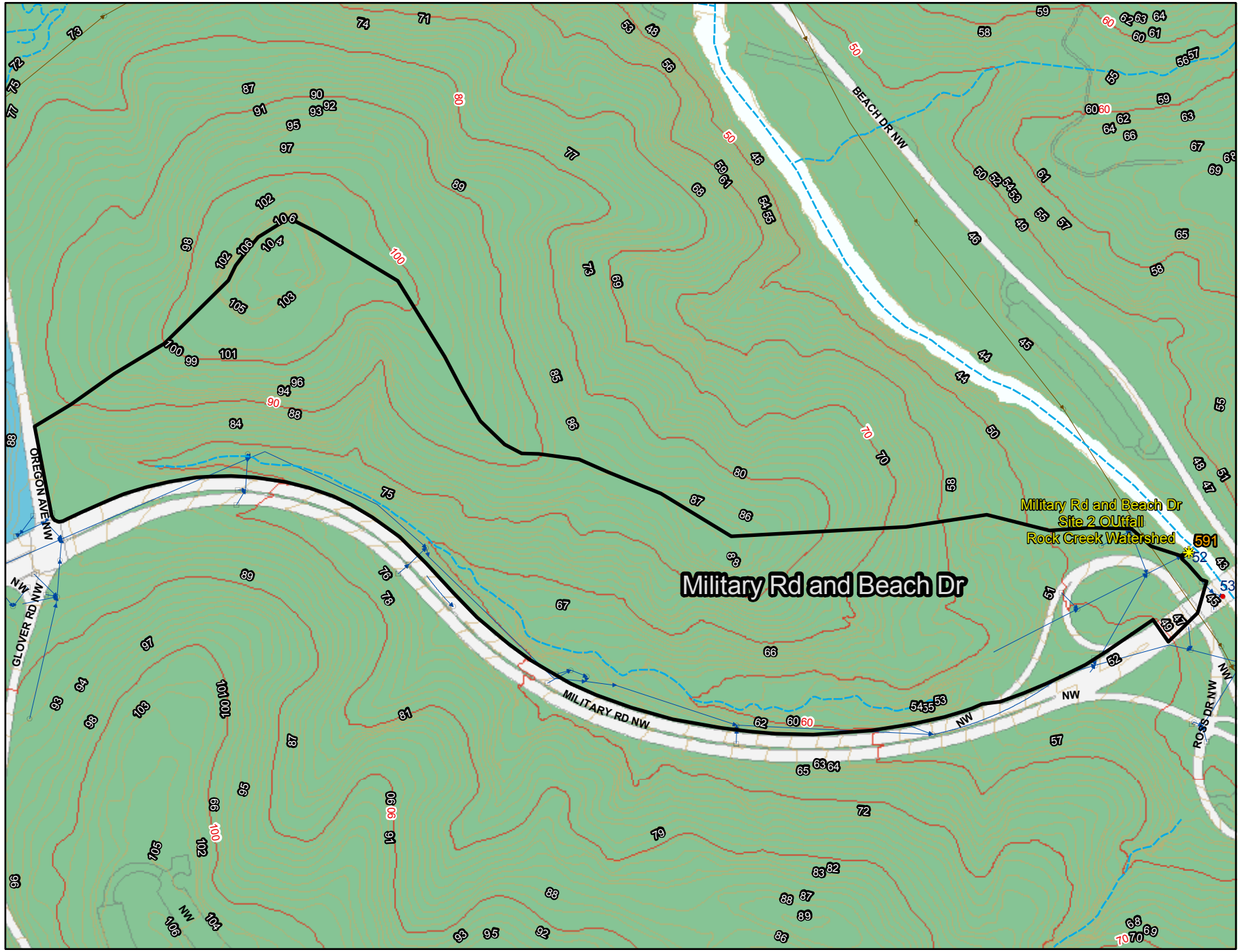
Aug 05, 2009

Military Rd and Beach Dr

Site# 2

Rock Creek Watershed

0 170 340 680 Feet



Legend

- Monitoring Sites (WQMS)
- WQMS Drainage Area
- Anacostia MS4 Outfall
- Potomac MS4 Outfall
- Rock Creek MS4 Outfall
- Sewer Outfall
- Sewer Catch Basin
- Sewer Manhole

Sewer Gravity Main

FlowType

- Storm
- Combined Storm/Wastewater
- Sanitary
- DCGIS.HydroCenterLineLn
- 10m Topo
- 1m Topo
- DCGIS.RoadPly
- District Boundary

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

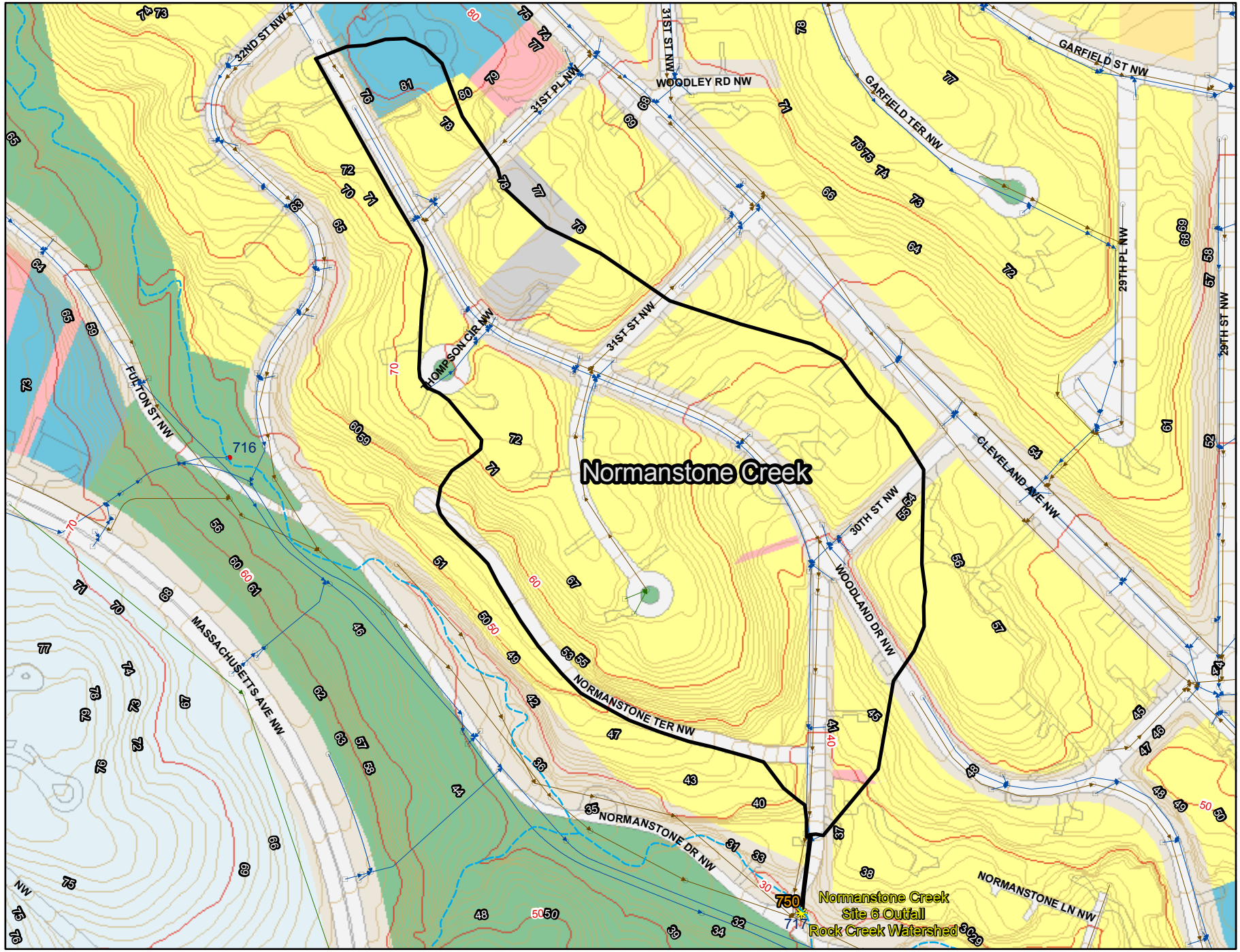
Aug 05, 2009

Normanstone Creek

Site# 6

Rock Creek Watershed

0 140 280 560 Feet



Legend

- Monitoring Sites (WQMS)
- WQMS Drainage Area
- Anacostia MS4 Outfall
- Potomac MS4 Outfall
- Rock Creek MS4 Outfall
- Sewer Outfall
- Sewer Catch Basin
- Sewer Manhole

Sewer Gravity Main

FlowType

- Storm
- Combined Storm/Wastewater
- Sanitary
- DCGIS.HydroCenterLineLn
- 10m Topo
- 1m Topo
- DCGIS.RoadPly
- District Boundary

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

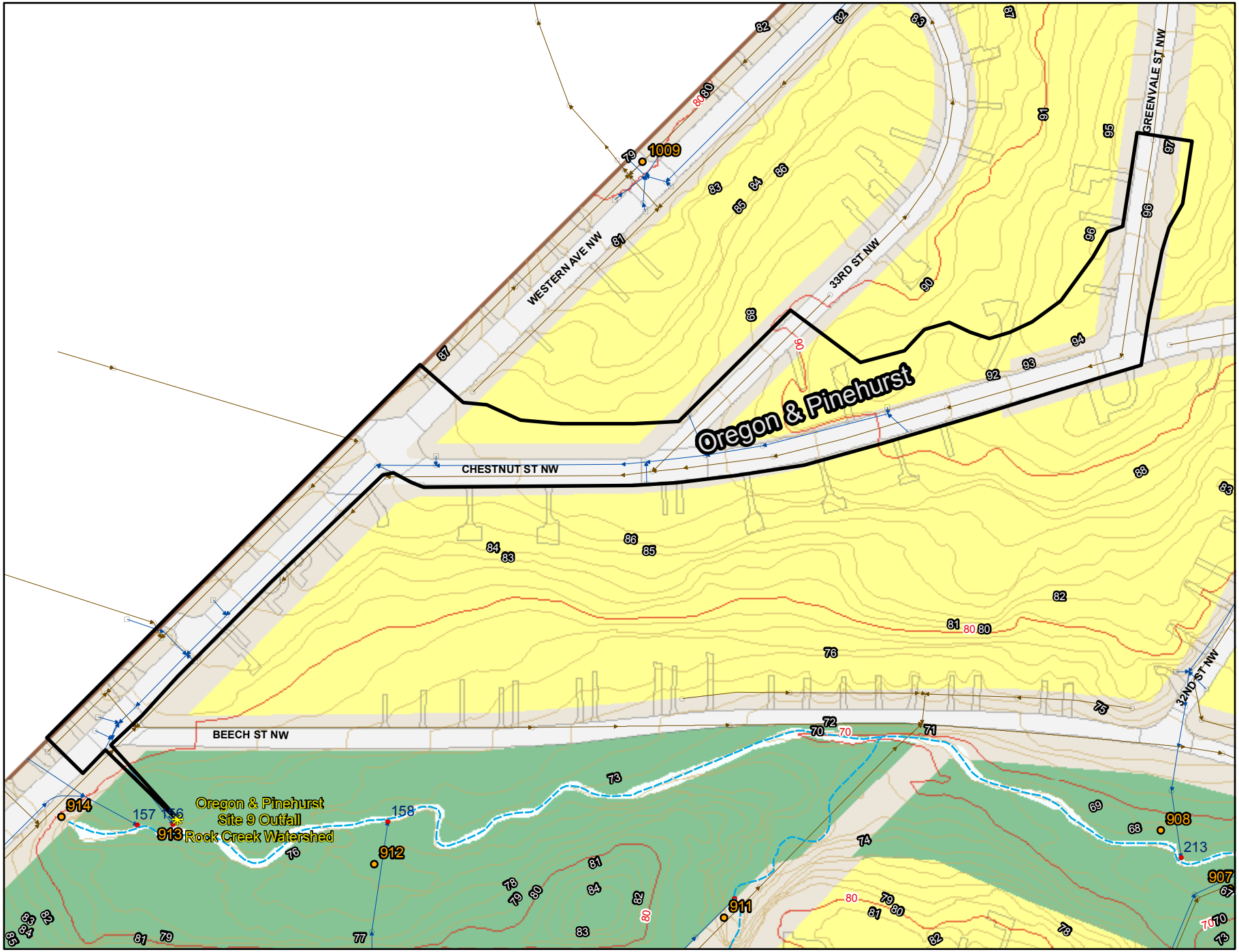
Aug 05, 2009

Oregon & Pinehurst

Site# 9

Rock Creek Watershed

0 115 230 460 Feet



Legend

- Monitoring Sites (WQMS)
- WQMS Drainage Area
- Anacostia MS4 Outfall
- Potomac MS4 Outfall
- Rock Creek MS4 Outfall
- Sewer Outfall
- Sewer Catch Basin
- Sewer Manhole

Sewer Gravity Main

FlowType

- Storm
- Combined Storm/Wastewater
- Sanitary
- DCGIS.HydroCenterLineLn
- 10m Topo
- 1m Topo
- DCGIS.RoadPly
- District Boundary

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

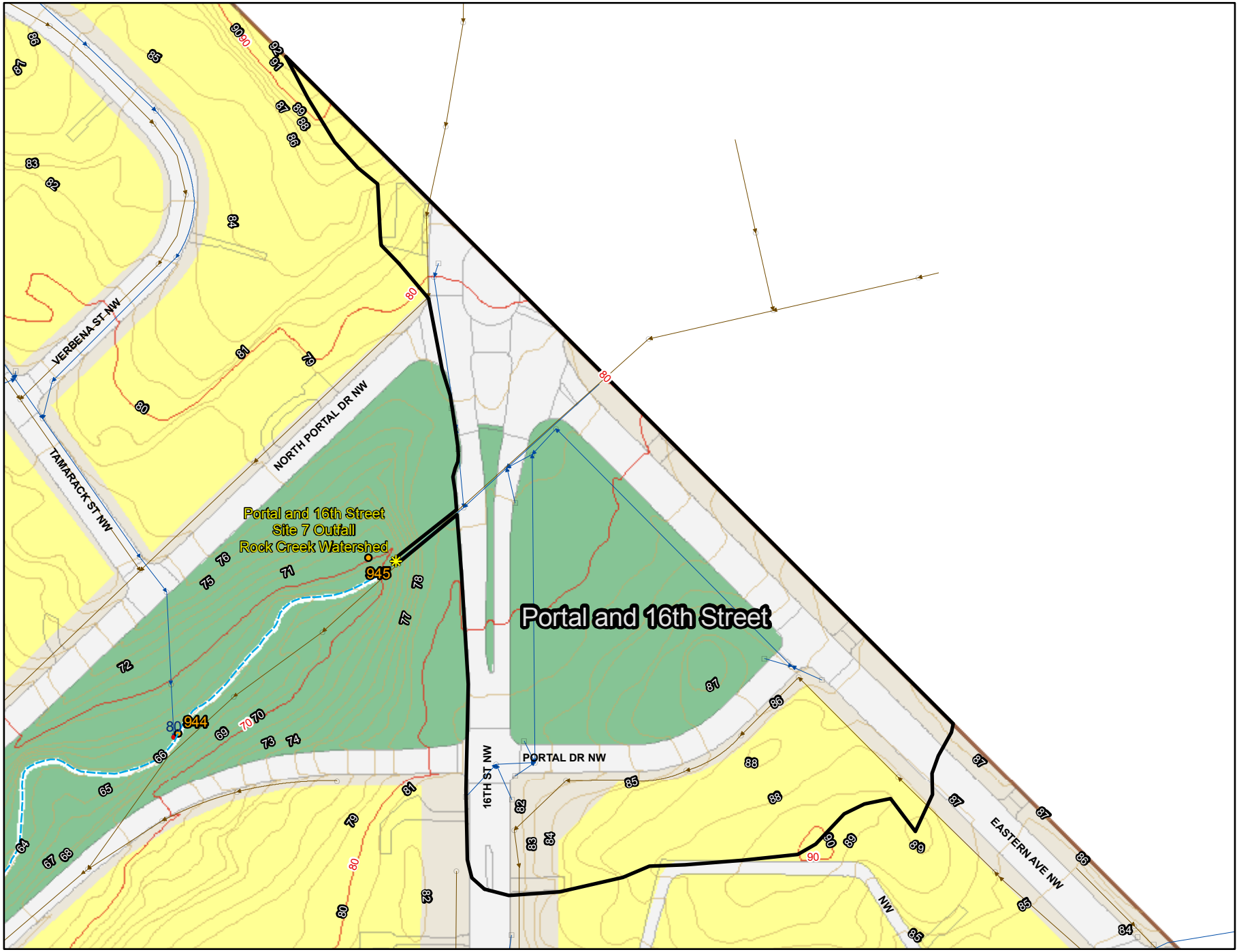
Aug 05, 2009

Portal and 16th Street

Site# 7

Rock Creek Watershed

0 90 180 360 Feet



Legend

- Monitoring Sites (WQMS)
- WQMS Drainage Area
- Anacostia MS4 Outfall
- Potomac MS4 Outfall
- Rock Creek MS4 Outfall
- Sewer Outfall
- Sewer Catch Basin
- Sewer Manhole

Sewer Gravity Main

FlowType

- Storm
- Combined Storm/Wastewater
- Sanitary
- DCGIS.HydroCenterLineLn
- 10m Topo
- 1m Topo
- DCGIS.RoadPly
- District Boundary

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

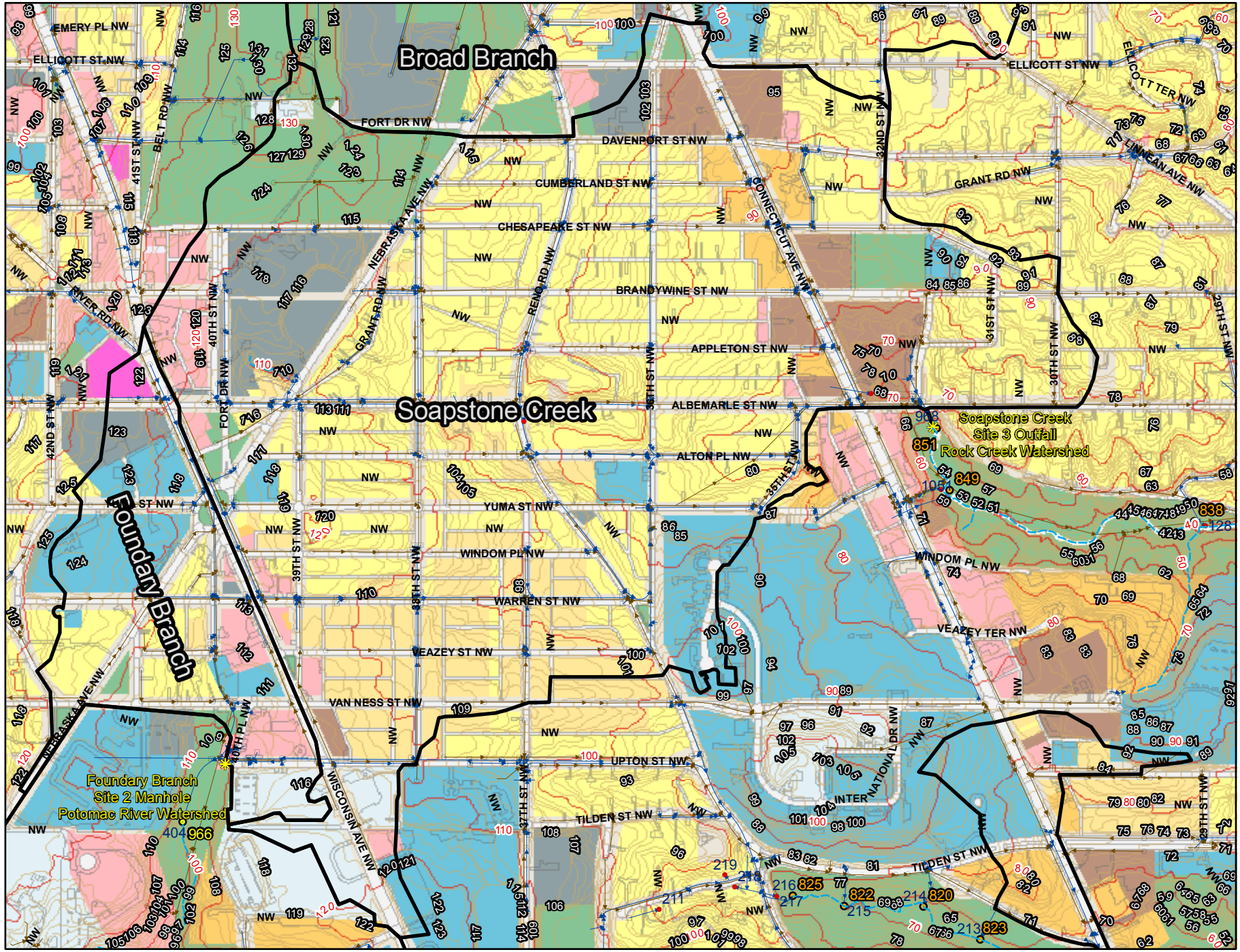
Aug 05, 2009

Soapstone Creek

Site# 3

Rock Creek Watershed

0 425 850 1,700 Feet



Legend

- Monitoring Sites (WQMS)
- WQMS Drainage Area
- Anacostia MS4 Outfall
- Potomac MS4 Outfall
- Rock Creek MS4 Outfall
- Sewer Outfall
- Sewer Catch Basin
- Sewer Manhole

Sewer Gravity Main

FlowType

- Storm
- Combined Storm/Wastewater
- Sanitary
- DCGIS.HydroCenterLineLn
- 10m Topo
- 1m Topo
- DCGIS.RoadPly
- District Boundary

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

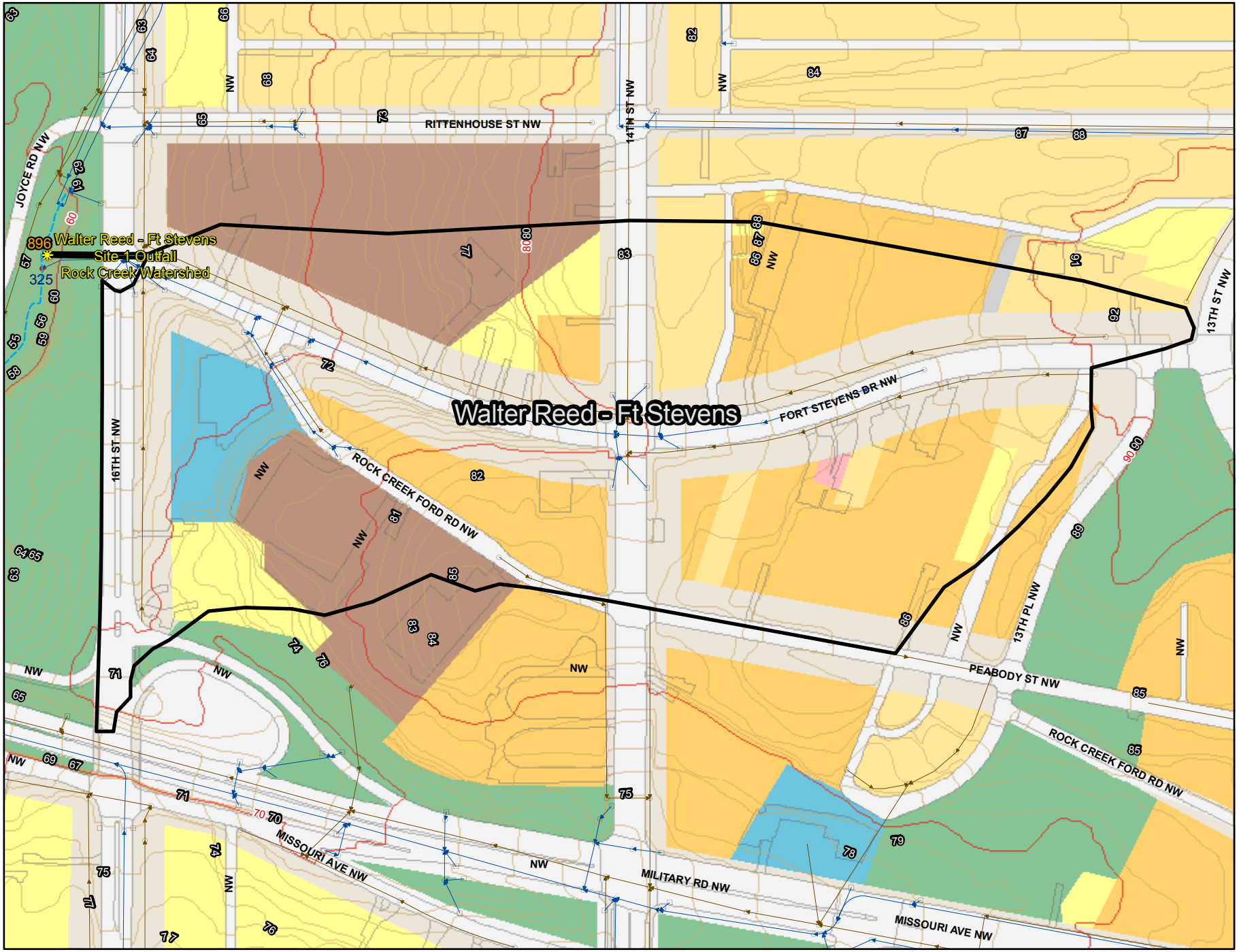
Aug 05, 2009

Walter Reed - Ft Stevens

Site# 1

Rock Creek Watershed

0 120 240 480 Feet



Legend

- Monitoring Sites (WQMS)
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Existing Land Use

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- 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

Aug 05, 2009

APPENDIX B

ROCK CREEK WATERSHED

DISCHARGE MONITORING REPORT

NATIONAL POLLUTANT DISCHAR[illegible]LIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

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
LOCATION: 51 N. STREET, N.E., 5TH FLOOR
WASHINGTON, DC 20001

ATTN: julia evans, P.E./Senior Envir

DC0000221	MS1-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2010	TO	12/31/2010

DMR Mailing ZIP CODE: 20002
MAJOR

WALTER REED-FORT STEVENS DRIVE
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	******	******	******	******	******	57.9				
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	******	******	******	******	******	17.0				
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
pH	SAMPLE MEASUREMENT	******	******	******	7.0	******	7.93				
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	Req. Mon. ANNL MAX	SU		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******	******	47				
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Oil & grease	SAMPLE MEASUREMENT	******	******	******	******	******	4.5				
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	6.3				
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				
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		08/13/2010
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)

ROCK CREEK WATERSHEDSEWER STATION LOCATION NAMES CHANGED TO WALTER REED (FORT STEVENS DRIV)EFFECTIVE FOR 1 YR ONLY 2006.MON. IS QRTLY, REPORTED ANNLY.NNLY.

NATIONAL POLLUTANT DISCHAR ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

pproved
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 M
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WASHINGTON, DC 20001

ATTN: julia evans, P.E./Senior Envir

DC0000221	MS1-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2010	TO	12/31/2010

DMR Mailing ZIP CODE: 20002
MAJOR

WALTER REED-FORT STEVENS DRIVE
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	COMPOS
Nitrogen, Kjeldahl, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	3.6				
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	******	******	******	******	******	2.6				
00630 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Phosphorus, total (as P)	SAMPLE MEASUREMENT	******	******	******	******	******	0.26				
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Phosphorus, dissolved	SAMPLE MEASUREMENT	******	******	******	******	******	0.18				
00666 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Cyanide, total (as CN)	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
00720 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Hardness, total (as CaCO3)	SAMPLE MEASUREMENT	******	******	******	******	******	180				
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)

ROCK CREEK WATERSHEDSEWER STATION LOCATION NAMES CHANGED TO WALTER REED (FORT STEVENS DRIV)EFFECTIVE FOR 1 YR ONLY 2006.MON. IS QRTLY, REPORTED ANNLY.NNLY.

NATIONAL POLLUTANT DISCHAR ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

pproved
OMB No. 2040-0004

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DC0000221	MS1-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2010	TO	12/31/2010

DMR Mailing ZIP CODE: 20002
MAJOR

WALTER REED-FORT STEVENS DRIVE
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	SAMPLE MEASUREMENT	******	******	******	******	******	160,000				
31679 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	#/100mL		Three Per Year	COMPOS
Base/neutral compounds	SAMPLE MEASUREMENT	******	******	******	******	******	0.032				
32015 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Acid compounds	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
32020 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1016	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
34671 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1221	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39488 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1232	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39492 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
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	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)

ROCK CREEK WATERSHEDSEWER STATION LOCATION NAMES CHANGED TO WALTER REED (FORT STEVENS DRIV)EFFECTIVE FOR 1 YR ONLY 2006.MON. IS QRTLY, REPORTED ANNLY.NNLY.

Grab sample type was used for the following parameter: Fecal streptococcus

NATIONAL POLLUTANT DISCHAR _ ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

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DC0000221	MS1-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2010	TO	12/31/2010

DMR Mailing ZIP CODE: 20002
MAJOR

WALTER REED-FORT STEVENS DRIVE
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	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	******	******	******	******	******	0.34				
46000 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Solids, total dissolved (TDS)	SAMPLE MEASUREMENT	******	******	******	******	******	760				
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	******	******	******	******	******	160,000				
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	#/100mL		Three Per Year	COMPOS

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TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

ROCK CREEK WATERSHEDSEWER STATION LOCATION NAMES CHANGED TO WALTER REED (FORT STEVENS DRIV)EFFECTIVE FOR 1 YR ONLY 2006.MON. IS QRTLY, REPORTED ANNLY.NNLY.

Grab sample type was used for the following parameter: Fecal coliform

NATIONAL POLLUTANT DISCHAR__ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

pproved
OMB No. 2040-0004

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LOCATION: 51 N. STREET, N.E., 5TH FLOOR
WASHINGTON, DC 20001

ATTN: julia evans, P.E./Senior Envir

DC0000221	MS1-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2010	TO	12/31/2010

DMR Mailing ZIP CODE: 20002
MAJOR

WALTER REED-FORT STEVENS DRIVE
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	******	******	******	******	******	0.13				
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	******	******	******	******	******	110				
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		08/13/2010
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)

ROCK CREEK WATERSHEDSEWER STATION LOCATION NAMES CHANGED TO WALTER REED (FORT STEVENS DRIV)EFFECTIVE FOR 1 YR ONLY 2006.MON. IS QRTLY, REPORTED ANNLY.NNLY.

Composite sample type was used for the following parameter: total metals.

NATIONAL POLLUTANT DISCHAR ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Approved
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: 51 N. STREET, N.E., 5TH FLOOR
WASHINGTON, DC 20001

ATTN: julia evans, P.E./Senior Envir

DC0000221	MS2-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	09/01/2009	TO	08/31/2010

DMR Mailing ZIP CODE: 20002
MAJOR

MILITARY ROAD AND BEACH DRIVE
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	******	******	******	******	******	53.4				
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	******	******	******	6.9	******	7.3				
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	Req. Mon. ANNL MAX	SU		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******	******	2,600				
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Oil & grease	SAMPLE MEASUREMENT	******	******	******	******	******	4.1				
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	15.0				
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		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ROCK CREEK WATERSHEDM WATER MONITORING LOCATION NAME CHANGED TO MILITARY ROAD AND BEACH DRIVE. MON. IS QRTLY, REPORTED ANNLLMON. IS QRTLY, REPORTED ANNLY.

NATIONAL POLLUTANT DISCHAR[illegible]LIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Approved
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
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LOCATION: 51 N. STREET, N.E., 5TH FLOOR
WASHINGTON, DC 20001

ATTN: julia evans, P.E./Senior Envir

DC0000221	MS2-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	09/01/2009	TO	08/31/2010

DMR Mailing ZIP CODE: 20002
MAJOR

MILITARY ROAD AND BEACH DRIVE
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	COMPOS
Nitrogen, Kjeldahl, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	14.0				
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	******	******	******	******	******	1.1				
00630 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Phosphorus, total (as P)	SAMPLE MEASUREMENT	******	******	******	******	******	0.22				
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Phosphorus, dissolved	SAMPLE MEASUREMENT	******	******	******	******	******	0.11				
00666 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Cyanide, total (as CN)	SAMPLE MEASUREMENT	******	******	******	******	******	0.047				
00720 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Hardness, total (as CaCO3)	SAMPLE MEASUREMENT	******	******	******	******	******	240				
00900 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)
ROCK CREEK WATERSHEDM WATER MONITORING LOCATION NAME CHANGED TO MILITARY ROAD AND BEACH DRIVE. MON. IS QRTLY, REPORTED ANNLLMON. IS QRTLY, REPORTED ANNLY.

NATIONAL POLLUTANT DISCHAF ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

n Approved
d 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: 51 N. STREET, N.E., 5TH FLOOR
WASHINGTON, DC 20001
ATTN: julia evans, P.E./Senior Envir

DC0000221	MS2-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	09/01/2009	TO	08/31/2010

DMR Mailing ZIP CODE: 20002
MAJOR

MILITARY ROAD AND BEACH DRIVE
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	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	******	******	******	******	******	0.0059				
32015 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Acid compounds	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
32020 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1016	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
34671 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1221	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39488 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1232	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39492 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
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	COMPOS

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
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NATIONAL POLLUTANT DISCHAR ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Approved
No. 2040-0004

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DC0000221	MS2-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
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FROM	09/01/2009	TO	08/31/2010

DMR Mailing ZIP CODE: 20002
MAJOR

MILITARY ROAD AND BEACH DRIVE
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	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	******	******	******	******	******	0.068				
46000 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Solids, total dissolved (TDS)	SAMPLE MEASUREMENT	******	******	******	******	******	4,700				
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		Four Per Year	COMPOS
Coliform, fecal general	SAMPLE MEASUREMENT	******	******	******	******	******	8,000				
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	#/100mL		Three Per Year	GRAB

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

Approved
B No. 2040-0004

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DC0000221	MS2-A
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MONITORING PERIOD			
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FROM	09/01/2009	TO	08/31/2010

DMR Mailing ZIP CODE: 20002
MAJOR

MILITARY ROAD AND BEACH DRIVE
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	******	******	******	******	******	0.31				
78240 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Volatile compounds, (GC/MS)	SAMPLE MEASUREMENT	******	******	******	******	******	0.00042				
78732 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Chemical Oxygen Demand (COD)	SAMPLE MEASUREMENT	******	******	******	******	******	510				
81017 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

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TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

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NATIONAL POLLUTANT DISCHA ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

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DC0000221	MS3-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	09/01/2009	TO	08/31/2010

DMR Mailing ZIP CODE: 20002
MAJOR

SOAPSTONE CRK CONNETICUT AVE
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	******	******	******	******	******	58.5				
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	******	******	******	******	******	17.0				
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
pH	SAMPLE MEASUREMENT	******	******	******	7.0	******	7.9				
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	Req. Mon. ANNL MAX	SU		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******	******	39				
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Oil & grease	SAMPLE MEASUREMENT	******	******	******	******	******	4.9				
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	4.6				
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

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ROCK CREEK WATERSHEDHIGH SCHOOL MONITORING LOCATION NAME CHANGED TO SOAPSTONE CREEK (CONNECTICUT AVE. AND ABLEMARLE STREET.MON. IS QRTLY, REPORTED ANNLY.

NATIONAL POLLUTANT DISCHA ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

n Approved
B No. 2040-0004

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

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LOCATION: 51 N. STREET, N.E., 5TH FLOOR
WASHINGTON, DC 20001

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DC0000221	MS3-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	09/01/2009	TO	08/31/2010

DMR Mailing ZIP CODE: 20002
MAJOR

SOAPSTONE CRK CONNETICUT AVE
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	COMPOS
Nitrogen, Kjeldahl, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	2.8				
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	******	******	******	******	******	1.8				
00630 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Phosphorus, total (as P)	SAMPLE MEASUREMENT	******	******	******	******	******	0.4				
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Phosphorus, dissolved	SAMPLE MEASUREMENT	******	******	******	******	******	0.37				
00666 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Cyanide, total (as CN)	SAMPLE MEASUREMENT	******	******	******	******	******	0.025				
00720 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Hardness, total (as CaCO3)	SAMPLE MEASUREMENT	******	******	******	******	******	180				
00900 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

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FROM	09/01/2009	TO	08/31/2010

DMR Mailing ZIP CODE: 20002
MAJOR

SOAPSTONE CRK CONNETICUT AVE
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	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	******	******	******	******	******	ND				
32015 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Acid compounds	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
32020 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1016	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
34671 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1221	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39488 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1232	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39492 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
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	COMPOS

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NATIONAL POLLUTANT DISCHA[illegible]ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITO[illegible]NG REPORT (DMR)

[illegible] Approved
[illegible] No. 2040-0004

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DMR Mailing ZIP CODE: 20002
MAJOR

SOAPSTONE CRK CONNETICUT AVE
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	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	******	******	******	******	******	0.042				
46000 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Solids, total dissolved (TDS)	SAMPLE MEASUREMENT	******	******	******	******	******	960				
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	******	******	******	******	******	90,000				
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.	[signature]	202-535-1603		08/13/2010
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)
ROCK CREEK WATERSHEDHIGH SCHOOL MONITORING LOCATION NAME CHANGED TO SOAPSTONE CREEK (CONNECTICUT AVE. AND ABLEMARLE STREET.MON. IS QRTLY, REPORTED ANNLY.
Grab sample type was used to sample for the following parameter: Fecal coliform

NATIONAL POLLUTANT DISCHAR ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Approved
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: 51 N. STREET, N.E., 5TH FLOOR
WASHINGTON, DC 20001

ATTN: julia evans, P.E./Senior Envir

DC0000221	MS3-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	09/01/2009	TO	08/31/2010

DMR Mailing ZIP CODE: 20002
MAJOR

SOAPSTONE CRK CONNETICUT AVE
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	******	******	******	******	******	0.128				
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	******	******	******	******	******	120				
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		08/13/2010
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)
ROCK CREEK WATERSHEDHIGH SCHOOL MONITORING LOCATION NAME CHANGED TO SOAPSTONE CREEK (CONNECTICUT AVE. AND ABLEMARLE STREET.MON. IS QRTLY, REPORTED ANNLY.
Composite sample type was used to sample for the following parameter: total metals

NATIONAL POLLUTANT DISCHAR ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

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 I
LOCATION: 51 N. STREET, N.E., 5TH FLOOR
WASHINGTON, DC 20001

ATTN: julia evans, P.E./Senior Envir

DC0000221	MS4-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2010	TO	12/31/2010

DMR Mailing ZIP CODE: 20002
MAJOR

MELVIN HAZEN VALLEY BRANCH
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	******	******	******	******	******	61.9				
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	******	******	******	******	******	33				
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
pH	SAMPLE MEASUREMENT	******	******	******	6.9	******	8.1				
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	Req. Mon. ANNL MAX	SU		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******	******	92				
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Oil & grease	SAMPLE MEASUREMENT	******	******	******	******	******	4.0				
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	4.6				
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		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

ROCK WATERSHEDND 14TH STREET, NE MONITORING LOCATION NAME CHANGED TO MELVIN HAZEN VALLEY BRANCH (MELVIN HAZEN PARK ANDQUEBECK STREET._ MON. IS QRTLY, REMON. IS QRTLY, REPORTED ANNLY.

NATIONAL POLLUTANT DISCHAR__ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

pproved
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 !
LOCATION: 51 N. STREET, N.E., 5TH FLOOR
WASHINGTON, DC 20001

ATTN: julia evans, P.E./Senior Envir

DC0000221	MS4-A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

MELVIN HAZEN VALLEY BRANCH
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2010	TO	12/31/2010

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	******	******	******	******	******	4.5				
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	******	******	******	******	******	0.14				
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	******	******	******	******	******	1.1				
00666 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Cyanide, total (as CN)	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
00720 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Hardness, total (as CaCO3)	SAMPLE MEASUREMENT	******	******	******	******	******	210				
00900 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)

ROCK WATERSHEDND 14TH STREET, NE MONITORING LOCATION NAME CHANGED TO MELVIN HAZEN VALLEY BRANCH (MELVIN HAZEN PARK ANDQUEBECK STREET. MON. IS QRTLY, REMON. IS QRTLY, REPORTED ANNLY.
Grab sample type was used for the Following parameter: Cyanide

NATIONAL POLLUTANT DISCHAR ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

pproved
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 N
LOCATION: 51 N. STREET, N.E., 5TH FLOOR
WASHINGTON, DC 20001

ATTN: julia evans, P.E./Senior Envir

DC0000221	MS4-A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

MELVIN HAZEN VALLEY BRANCH
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2010	TO	12/31/2010

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	******	******	******	******	******	0.015				
32015 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Acid compounds	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
32020 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1016	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
34671 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1221	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39488 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1232	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39492 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
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	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)

ROCK WATERSHEDND 14TH STREET, NE MONITORING LOCATION NAME CHANGED TO MELVIN HAZEN VALLEY BRANCH (MELVIN HAZEN PARK ANDQUEBECK STREET. MON. IS QRTLY, REMON. IS QRTLY, REPORTED ANNLY.

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

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 I
LOCATION: 51 N. STREET, N.E., 5TH FLOOR
WASHINGTON, DC 20001
ATTN: julia evans, P.E./Senior Envir

DC0000221	MS4-A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

MELVIN HAZEN VALLEY BRANCH
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2010	TO	12/31/2010

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	******	******	******	******	******	0.12				
46000 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Solids, total dissolved (TDS)	SAMPLE MEASUREMENT	******	******	******	******	******	490				
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	******	******	******	******	******	30,000				
74055 1 0 Effluent Gross	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)

ROCK WATERSHEDND 14TH STREET, NE MONITORING LOCATION NAME CHANGED TO MELVIN HAZEN VALLEY BRANCH (MELVIN HAZEN PARK ANDQUEBECK STREET._ MON. IS QRTLY, REMON. IS QRTLY, REPORTED ANNLY. Grab sample type was used For the following parameter: Fecal coliform

NATIONAL POLLUTANT DISCHAR ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

pproved
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 M
LOCATION: 51 N. STREET, N.E., 5TH FLOOR
WASHINGTON, DC 20001

ATTN: julia evans, P.E./Senior Envir

DC0000221	MS4,A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

MELVIN HAZEN VALLEY BRANCH
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2010	TO	12/31/2010

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	******	******	******	******	******	0.37				
78240 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Volatile compounds, (GC/MS)	SAMPLE MEASUREMENT	******	******	******	******	******	0.006				
78732 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Chemical Oxygen Demand (COD)	SAMPLE MEASUREMENT	******	******	******	******	******	250				
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		08/13/2010
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)

ROCK WATERSHEDND 14TH STREET, NE MONITORING LOCATION NAME CHANGED TO MELVIN HAZEN VALLEY BRANCH (MELVIN HAZEN PARK ANDQUEBECK STREET._ MON. IS QRTLY, REMON. IS QRTLY, REPORTED ANNLY.

NATIONAL POLLUTANT DISCHA ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

n Approved
B 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: 51 N. STREET, N.E., 5TH FLOOR
WASHINGTON, DC 20001

ATTN: julia evans, P.E./Senior Envir

DC0000221	MS5-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	09/01/2009	TO	08/31/2010

DMR Mailing ZIP CODE: 20002
MAJOR

KLINGLE VALLEY CREEK
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	******	******	******	******	******	59.2				
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	******	******	******	******	******	23				
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
pH	SAMPLE MEASUREMENT	******	******	******	7.77	******	8.45				
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	Req. Mon. ANNL MAX	SU		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******	******	43				
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Oil & grease	SAMPLE MEASUREMENT	******	******	******	******	******	3.6				
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	4.5				
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)
ROCK CREEK WATERSHED 19TH PLACE, NE MONITORING LOCATIONNAME CHANGED TO KLINGLE VALLEY CREEK (DEVONSHIRE PLACE AND 30TH STREET)_ MON. IS QRTLY, REPORTED ANNLY.

NATIONAL POLLUTANT DISCHAR ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

n Approved
B 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: 51 N. STREET, N.E., 5TH FLOOR
WASHINGTON, DC 20001

ATTN: julia evans, P.E./Senior Envir

DC0000221	MS5-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	09/01/2009	TO	08/31/2010

DMR Mailing ZIP CODE: 20002
MAJOR

KLINGLE VALLEY CREEK
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	COMPOS
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	COMPOS
Nitrite plus nitrate total 1 det. (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	1.3				
00630 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Phosphorus, total (as P)	SAMPLE MEASUREMENT	******	******	******	******	******	0.86				
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Phosphorus, dissolved	SAMPLE MEASUREMENT	******	******	******	******	******	0.81				
00666 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Cyanide, total (as CN)	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
00720 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Hardness, total (as CaCO3)	SAMPLE MEASUREMENT	******	******	******	******	******	100				
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.		202-535-1603		08/13/2010
/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)
ROCK CREEK WATERSHED 19TH PLACE, NE MONITORING LOCATIONNAME CHANGED TO KLINGLE VALLEY CREEK (DEVONSHIRE PLACE AND 30TH STREET)_ MON. IS QRTLY, REPORTED ANNLY.
Composite sampling was used for the following parameter: total hardness

NATIONAL POLLUTANT DISCHA ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

n Approved
B 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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WASHINGTON, DC 20001

ATTN: julia evans, P.E./Senior Envir

DC0000221	MS5-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
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FROM	09/01/2009	TO	08/31/2010

DMR Mailing ZIP CODE: 20002
MAJOR

KLINGLE VALLEY CREEK
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	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	******	******	******	******		0.037				
32015 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. AVERAGE	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Acid compounds	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
32020 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1016	SAMPLE MEASUREMENT	******	******	******	******		ND				
34671 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. AVERAGE	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1221	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39488 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1232	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39492 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
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	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)
ROCK CREEK WATERSHED 19TH PLACE, NE MONITORING LOCATIONNAME CHANGED TO KLINGLE VALLEY CREEK (DEVONSHIRE PLACE AND 30TH STREET)._ MON. IS QRTLY, REPORTED ANNLY.

NATIONAL POLLUTANT DISCHA ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

m Approved
B No. 2040-0004

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DC0000221	MS5-A
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DMR Mailing ZIP CODE: 20002
MAJOR

KLINGLE VALLEY CREEK
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	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	******	******	******	******	******	0.01				
46000 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Solids, total dissolved (TDS)	SAMPLE MEASUREMENT	******	******	******	******	******	350				
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	******	******	******	******	******	160,000				
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	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	202-535-1603	08/13/2010
(TYPED OR PRINTED)		AREA Code / NUMBER	MM/DD/YYYY

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ROCK CREEK WATERSHED 19TH PLACE, NE MONITORING LOCATIONNAME CHANGED TO KLINGLE VALLEY CREEK (DEVONSHIRE PLACE AND 30TH STREET)._ MON. IS QRTLY, REPORTED ANNLY.
Grab sampling was used for the following parameter: Fecal coliform

NATIONAL POLLUTANT DISCHA' ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

n Approved
B No. 2040-0004

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WASHINGTON, DC 20001

ATTN: julia evans, P.E./Senior Envir

DC0000221	MS5-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	09/01/2009	TO	08/31/2010

DMR Mailing ZIP CODE: 20002
MAJOR

KLINGLE VALLEY CREEK
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	******	******	******	******	******	0.42				
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	******	******	******	******	******	100				
81017 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)
ROCK CREEK WATERSHED 19TH PLACE, NE MONITORING LOCATIONNAME CHANGED TO KLINGLE VALLEY CREEK (DEVONSHIRE PLACE AND 30TH STREET)._ MON. IS QRTLY, REPORTED ANNLY.
Composite sampling was used for the following parameter: total metals

NATIONAL POLLUTANT DISCHA__ ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

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 N
LOCATION: 51 N. STREET, N.E., 5TH FLOOR
WASHINGTON, DC 20001

ATTN: julia evans, P.E./Senior Envir

DC0000221	MS6-A
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 20002
MAJOR

NORMANSTONE CREEK
External Outfall

No Discharge ☐

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2010	TO	12/31/2010

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	******	******	******	******	******	59.4				
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	******	******	******	******	******	110				
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
pH	SAMPLE MEASUREMENT	******	******	******	7.44	******	8.02				
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	Req. Mon. MINIMUM	******	Req. Mon. ANNL MAX	SU		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******	******	110				
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Oil & grease	SAMPLE MEASUREMENT	******	******	******	******	******	3.2				
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	8.0				
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. AVERAGE	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

ROCK CREEK WATERSHEDONITORING LOCATION NAME CHANGED TONORMANSTONE CREEK (NORMANSTONE DRIVE AND NORMANSTONE PARKWAY).MON. IS QRTLY, REPORTED ANNLY.

NATIONAL POLLUTANT DISCHA ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

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
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WASHINGTON, DC 20001

ATTN: julia evans, P.E./Senior Envir

DC0000221	MS6-A
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	MM/DD/YYYY		MM/DD/YYYY
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DMR Mailing ZIP CODE: 20002
MAJOR

NORMANSTONE CREEK
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	COMPOS
Nitrogen, Kjeldahl, total (as N)	SAMPLE MEASUREMENT	******	******	******	******	******	6.7				
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	******	******	******	******	******	1.3				
00630 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Four Per Year	COMPOS
Phosphorus, total (as P)	SAMPLE MEASUREMENT	******	******	******	******	******	0.15				
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Phosphorus, dissolved	SAMPLE MEASUREMENT	******	******	******	******	******	0.35				
00666 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Cyanide, total (as CN)	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
00720 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Hardness, total (as CaCO3)	SAMPLE MEASUREMENT	******	******	******	******	******	180				
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)

ROCK CREEK WATERSHEDONITORING LOCATION NAME CHANGED TONORMANSTONE CREEK (NORMANSTONE DRIVE AND NORMANSTONE PARKWAY).MON. IS QRTLY, REPORTED ANNLY.

NATIONAL POLLUTANT DISCHA ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

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MAJOR

NORMANSTONE CREEK
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	SAMPLE MEASUREMENT	******	******	******	******	******	30,000				
31679 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	#/100mL		Three Per Year	GRAB
Base/neutral compounds	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
32015 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Acid compounds	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
32020 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1016	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
34671 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1221	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39488 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1232	SAMPLE MEASUREMENT	******	******	******	******	******	ND				
39492 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
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	COMPOS

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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NATIONAL POLLUTANT DISCHA[illegible] ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Approved
OMB No. 2040-0004

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DMR Mailing ZIP CODE: 20002
MAJOR

NORMANSTONE CREEK
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	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	******	******	******	******	******	0.045				
46000 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Solids, total dissolved (TDS)	SAMPLE MEASUREMENT	******	******	******	******	******	460				
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	******	******	******	******	******	5,000				
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		202-535-1603		08/13/2010
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)

ROCK CREEK WATERSHEDONITORING LOCATION NAME CHANGED TONORMANSTONE CREEK (NORMANSTONE DRIVE AND NORMANSTONE PARKWAY).MON. IS QRTLY, REPORTED ANNLY.
Grab sampling was used to sample for the following parameter: Fecal coliform

NATIONAL POLLUTANT DISCHA_ ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

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 I
LOCATION: 51 N. STREET, N.E., 5TH FLOOR
WASHINGTON, DC 20001

ATTN: julia evans, P.E./Senior Envir

DC0000221	MS6-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD			
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2010	TO	12/31/2010

DMR Mailing ZIP CODE: 20002
MAJOR

NORMANSTONE CREEK
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	******	******	******	******	******	0.54				
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	******	******	******	******	******	150				
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		08/13/2010
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)

ROCK CREEK WATERSHEDONITORING LOCATION NAME CHANGED TONORMANSTONE CREEK (NORMANSTONE DRIVE AND NORMANSTONE PARKWAY).MON. IS QRTLY, REPORTED ANNLY.

Composite sampling was used to sample for the following parameter: Total metals

APPENDIX C

ROCK CREEK WATERSHED

SAMPLING ANALYTICAL DATA

ROCK CREEK WATERSHED
WET WEATHER SAMPLING RAW DATA

Parameter	Units	RL	Walter Reed (Ft. Stevens)			Military Rd. and Beach Dr.			Soapstone			Melvin Hazen			Klingle Valley			Normanstone		
			Wet 1	Wet 2	Wet3	Wet 1	Wet 2	Wet3	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	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Trans-Dichloroethylene (trans-1,2-Dichloroethane)	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropylene (trans-1,3-Dichloropropylene)	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-TCDD (Dioxin)	pg/l	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	n/a	ND	ND	ND	n/a	ND	n/a	ND	ND
2,4,6-Trichlorophenol	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ug/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3´-Dichlorobenzidine	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,4-Benzofluoranthene (Benzo[b]fluoranthene)	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-Crestol (4,6-Dinitro-2-methylphenol)	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-phenylether	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-phenylethe	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ug/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	ug/L	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	ug/L	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin	ug/L	0.053	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	ug/L	0.053	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Antimony	mg/L	0.0050	ND	ND	ND	0.0056	ND	ND	0.0055	ND	ND	ND	0.007	ND	ND	ND	0.0074	ND	ND	ND
Aroclor 1016 (PCB 1016)	ug/L	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221 (PCB 1221)	ug/L	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232 (PCB 1232)	ug/L	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242 (PCB 1242)	ug/L	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248 (PCB 1248)	ug/L	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254 (PCB 1254)	ug/L	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260 (PCB 1260)	ug/L	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	mg/L	0.020	ND	ND	ND	ND	0.034	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	ug/L	1.0	6.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]pyrene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium	mg/L	0.0010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	ug/L	0.053	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloroethoxy)methane	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Chloroethyl)ether	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	ug/L	5.1	5.7	32	ND	5.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	31	ND	ND	ND	ND
BOD	mg/L	3.0	12	14	17	4.0	30	24	11	9.4	17	26	33	22	22	11	23	6.1	4.1	110
Bromodichloromethane	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND
Bromoform	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane (Methyl bromide)	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butylbenzylphthalate	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	mg/L	0.00050	ND	0.0021	ND	0.00050	0.031	ND	ND	0.0026	ND	ND	ND	ND	ND	0.00097	ND	0.00050	ND	0.00076
Carbon Tetrachloride	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane (Technical Chlordane)	ug/L	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/L	1.0	ND	ND	0.63	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ND	ND	ND	ND	ND	ND
Chloromethane (Methyl chloride)	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorophyll a	mg/m³	0.50	ND	4.1	7.1	ND	3.3	2.0	ND	4.9	4.9	ND	ND	2.5	2.0	8.2	ND	6.2	4.1	23

Chromium	mg/L	0.0010	0.0025	ND	0.0018	0.0079	ND	0.0026	0.0034	ND	0.0023	0.0017	0.014	ND	0.0019	ND	0.0053	ND	0.0064	0.0029

ROCK CREEK WATERSHED
WET WEATHER SAMPLING RAW DATA

Parameter	Units	RL	Walter Reed (Ft. Stevens)			Military Rd. and Beach Dr.			Soapstone			Melvin Hazen			Klingle Valley			Normanstone		
			Wet 1	Wet 2	Wet3	Wet 1	Wet 2	Wet3	Wet 1	Wet 2	Wet 3	Wet 1	Wet 2	Wet 3	Wet 1	Wet 2	Wet 3	Wet 1	Wet 2	Wet 3
Chrysene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
COD, Total	mg/L	10	110	35	79	93	510	97	120	33	67	250	120	24	100	35	89	100	150	150
Copper	mg/L	0.0010	0.017	0.0073	0.045	0.055	0.030	0.042	0.027	0.0097	0.038	0.028	0.068	0.063	0.064	0.046	0.056	0.072	0.12	0.36
Cyanide, Total	mg/L	0.010	ND	ND	ND	ND	0.047	ND	ND	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	ug/L	0.053	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz[a,h]anthracene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane (Chlorodibromomethane)	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ug/L	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethylphthalate	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND
Dimethylphthalate	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.6	ND	ND	ND	ND
Di-n-octylphthalate	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
E. Coli	MPN/100 mL	200	30000	n/a	n/a	8000	n/a	n/a	90000	n/a	n/a	8000	n/a		50000	n/a	n/a	5000	n/a	n/a
Endosulfan I (Alpha-endosulfan)	ug/L	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II (Beta-endosulfan)	ug/L	0.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	ug/L	0.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	ug/L	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin Aldehyde	ug/L	0.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fecal Coliforms	MPN/100 mL	200	30000	>160,000	7000	8000	800	ND	90000	24000	50000	8000	30000	2300	50000	>160,000	3000	5000	5000	5000
Fecal Streptococcus	MPN/100 mL	200	90000	160000	13000	>160,000	24000	24000	>160,000	50000	8000	>160,000	28000	ND	>160,000	30000	3000	30000	1300	24000
Fluoranthene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC	ug/L	0.053	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hardness (As $CaCO_3$)	mg $CaCO_3$/L	1.0	70	82	180	100	240	180	61	180	180	180	140	210	86	86	100	110	81	180
Heptachlor	ug/L	0.053	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ug/L	0.053	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ug/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	mg/L	0.040	ND	ND	ND	ND	0.12	ND	ND	ND	ND	ND	0.038	ND	0.28	0.13	0.17	ND	0.050	0.051
Mercury	mg/L	0.00020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0014	ND	ND	0.00025
Methylene Chloride	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	mg/L	0.010	ND	0.013	0.014	ND	0.023	0.11	ND	ND	ND	ND	0.015	0.017	ND	0.013	0.012	ND	0.013	0.015
Nitrate/Nitrite as N	mg/L	0.05	ND	2.6	2.4	ND	1.1	0.57	ND	0.68	1.8	ND	ND	0.14	ND	1.3	0.27	0.16	0.86	1.3
Nitrobenzene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrogen, Total	mg/L	1.00	2.50	6.3	5.0	2.8	15	2.8	2.80	ND	4.6	3.6	2.0	4.6	2.8	4.1	4.5	4.4	3.7	8
N-Nitrosodimethylamine	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Oil & Grease	mg/L	5.0	2.8	4.5	ND	3.3	ND	4.1	4.9	4.6	ND	4.0	3.9	ND	3.6	ND	ND	ND	ND	3.2
p,p'-DDD	ug/L	0.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p'-DDE	ug/L	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p'-DDT	ug/L	0.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Chloro-m-Crestol (4-Chloro-3-methylphenol)	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ug/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenolics, Total Recoverable	mg/L	0.010	0.54	0.016	0.020	0.068	0.019	0.014	0.042	0.012	0.017	0.12	0.016	0.011	0.042	ND	0.010	0.045	ND	0.016
Phosphorus, Dissolved (As P)	mg/L	0.010	0.18	0.18	0.076	0.11	0.10	0.062	0.37	0.14	0.094	1.1	0.21	0.38	0.26	0.16	0.81	0.27	0.16	0.35
Phosphorus, Total (As P)	mg/L	0.010	0.23	0.19	0.26	0.14	ND	0.22	0.40	0.16	0.35	1.1	0.35	0.44	0.29	0.17	0.86	0.28	0.42	0.75
Pyrene	ug/L	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	mg/L	0.010	ND	ND	ND	ND	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	mg/L	0.0040	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	mg/L	0.020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/L	1.0	ND	ND	ND	ND	0.42	ND	ND	ND	ND	6.0	ND	ND	ND	ND	ND	ND	ND	ND
Total Dissolved Solids	mg/L	20	30	760	530	ND	4700	1000	60	960	430	150	180	490	46	350	200	110	310	460
Total Kjeldahl Nitrogen	mg/L	1.0	2.5	3.6	2.5	2.8	14	2.2	2.8	ND	2.8	3.6	2.0	4.5	2.8	2.8	4.2	4.2	2.8	6.7
Total Organic Carbon	mg/L	0.5	15	10.5	19	9.8	8.2	27	25	8.2	18	72	14	23	16	8.5	8.5	13	15	32
Total PCBs	ug/L	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Suspended Solids	mg/L	10	47	20	32	37	2600	21	39	10	25	52	92	24	18	20	43	21	110	95
Toxaphene	ug/L	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	mg/L	0.020	0.085	0.024	0.071	0.10	ND	0.054	0.085	0.017	0.088	0.044	0.23	0.21	0.072	0.030	0.063	0.037	0.15	0.11

RL - reporting limit

n/a - not available
ND - none detected

ROCK CREEK SUBWATERSHED
DRY WEATHER SAMPLING RAW DATA

Parameter	Units	RL	Water Reed (Ft. Stevens)		Military Rd. and Beach Dr.		Soapstone		Melvin Hazen		Klingle Valley		Normanstone	
			Dry1	Dry2	Dry1 (NDF)	Dry2	Dry1	Dry2	Dry1 (NDF)	Dry2	Dry1	Dry2	Dry1	Dry2
1,1,1-Trichloroethane	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
1,1-Dichloroethane	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
1,2-Dichloroethane	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
1,2-Dichloropropane	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
2,3,7,8-TCDD	pg/l	0.36	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
2,4-Dichlorophenol	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
2,4-Dimethylphenol	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
2,4-Dinitrophenol	ug/L	53	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
2-Chloronaphthalene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
2-Chlorophenol	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
2-Nitrophenol	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
3,3´-Dichlorobenzidine	ug/L	21	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ug/L	53	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
4-Bromophenyl-phenylether	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	ug/L	21	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
4-Chlorophenyl-phenylether	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
4-Nitrophenol	ug/L	53	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Acenaphthene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Acenaphthylene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Acrolein	ug/L	5.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Acrylonitrile	ug/L	5.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Aldrin	ug/L	0.054	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
alpha-BHC	ug/L	0.054	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Anthracene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Antimony	mg/L	0.010	ND	ND		ND	ND	ND		0.013	ND	ND	ND	ND
Aroclor 1016 (PCB 1016)	ug/L	1.1	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Aroclor 1221 (PCB 1221)	ug/L	1.1	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Aroclor 1232 (PCB 1232)	ug/L	1.1	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Aroclor 1242 (PCB 1242)	ug/L	1.1	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Aroclor 1248 (PCB 1248)	ug/L	1.1	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Aroclor 1254 (PCB 1254)	ug/L	1.1	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Aroclor 1260 (PCB 1260)	ug/L	1.1	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Arsenic	mg/L	0.0050	ND	ND		ND	ND	ND		ND	0.0059	ND	ND	ND
Benzene	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Benzidine	ug/L	53	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Benzo[a]pyrene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Benzo[b]fluoranthene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Benzo[k]fluoranthene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Beryllium	mg/L	0.0010	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
beta-BHC	ug/L	0.054	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Bis(2-Chloroethyl)ether	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
BOD	mg/L	2.0	4.2	ND		ND	3.9	ND		6.6	ND	13	ND	ND
Bromodichloromethane	ug/L	1.0	ND	ND		ND	1.7	ND		1.3	ND	ND	ND	ND
Bromoform	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Bromomethane (Methyl bromide)	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Butylbenzylphthalate	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Cadmium	mg/L	0.010	0.0022	0.00066		ND	0.0010	ND		ND	0.0015	ND	0.0011	ND
Carbon Tetrachloride	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Chlorobenzene	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Chloroethane	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Chloroform	ug/L	1.0	ND	ND		ND	2.8	ND		3.0	ND	ND	ND	ND
Chloromethane (Methyl chloride)	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Chlorophyll a	ug/L	0.50	ND	2.5		3.1	ND	ND		3.2	12	ND	ND	ND
Chromium	mg/L	0.0010	ND	ND		ND	0.0012	ND		ND	ND	ND	ND	ND
Chrysene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND

COD, Total	mg/L	10	16	18		16	27	32		ND	ND	43	25	44
Copper	mg/L	0.0010	ND	0.0019		0.0039	0.0079	ND		750	0.0069	0.031	0.0019	ND

ROCK CREEK SUBWATERSHED
DRY WEATHER SAMPLING RAW DATA

Parameter	Units	RL	Water Reed (Ft. Stevens)		Military Rd. and Beach Dr.		Soapstone		Melvin Hazen		Klingle Valley		Normanstone	
			Dry1	Dry2	Dry1 (NDF)	Dry2	Dry1	Dry2	Dry1 (NDF)	Dry2	Dry1	Dry2	Dry1	Dry2
Cyanide, Total	mg/L	0.010	ND	ND		1.9	0.014	ND		0.014	ND	ND	ND	ND
Decachlorobiphenyl	ug/L	n/a	0.910	n/a		n/a	0.903	n/a		0.039	n/a	n/a	0.835	n/a
delta-BHC	ug/L	0.054	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Dibenz[a,h]anthracene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Dibromochloromethane (Chlorodibromomethane)	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Dieldrin	ug/L	0.11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Diethylphthalate	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Dimethylphthalate	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Di-n-butylphthalate	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Di-n-octylphthalate	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Endosulfan I (Alpha-endosulfan)	ug/L	0.11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Endosulfan II (Beta-endosulfan)	ug/L	0.33	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Endosulfan Sulfate	ug/L	0.33	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Endrin	ug/L	0.11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Endrin Aldehyde	ug/L	0.33	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Ethylbenzene	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Fecal Coliforms	MPN/100 mL	2.0	>1600	8000		ND	>1600	11000		800	500	50000	>1600	5000
Fecal Streptococcus	MPN/100 mL	2.0	>1600	1700		ND	>1600	24000		200	>1600	24000	>1600	24000
Fluoranthene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Fluorene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
gamma-BHC	ug/L	0.054	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Hardness (As $CaCO_3$)	mg $CaCO_3$/L	0.17	1600	210		180	1500	230		230	160	170	1400	200
Heptachlor	ug/L	0.054	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Heptachlor epoxide	ug/L	0.054	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Hexachlorobenzene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Hexachlorobutadiene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Hexachloroethane	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Isophorone	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Lead	mg/L	0.040	ND	ND		ND	ND	ND		0.011	ND	0.078	ND	ND
Mercury	mg/L	0.00020	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Methylene Chloride	ug/L	3.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Naphthalene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Nickel	mg/L	0.010	ND	0.020		ND	ND	ND		ND	ND	0.016	ND	ND
Nitrate/Nitrite as N	mg/L	0.05	0.11	1.5		0.23	ND	ND		0.28	2.9	0.056	0.18	0.10
Nitrobenzene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Nitrogen, Total	mg/L	0.10	2.1	1.5		ND	3.1	ND		4.5	4.6	1.5	2.1	ND
N-Nitrosodimethylamine	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Oil & Grease	mg/L	5.0	2.6	ND		ND	5.3	ND		ND	ND	ND	ND	ND
p,p'-DDD	ug/L	0.33	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
p,p'-DDE	ug/L	0.11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
p,p'-DDT	ug/L	0.33	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Pentachlorophenol	ug/L	53	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Phenanthrene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Phenol	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Phenolics, Total Recoverable	mg/L	0.010	0.013	0.011		0.011	0.14	0.011		ND	0.029	0.023	0.054	ND
Pheophytin a	ug/L	0.50	3.0	n/a		n/a	32	n/a		n/a	ND	n/a	20	n/a
Phosphorus, Dissolved (As P)	mg/L	0.010	0.061	0.044		0.021	0.55	0.11		0.30	0.070	0.34	0.052	0.024
Phosphorus, Total (As P)	mg/L	0.010	0.070	0.33		0.027	0.74	0.15		0.50	0.084	0.48	0.058	0.028
Pyrene	ug/L	11	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Selenium	mg/L	0.010	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Silver	mg/L	0.0040	ND	ND		ND	0.0041	ND		ND	ND	ND	ND	ND
Technical Chlordane	ug/L	1.1	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Tetrachloroethene	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Tetrachloro-m-xylene	ug/L	n/a	0.857	n/a		n/a	0.883	n/a		n/a	n/a	n/a	0.853	n/a
Thallium	mg/L	0.020	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Toluene	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Total Dissolved Solids	mg/L	20	810	920		680	270	640		500	720	460	440	550
Total Kjeldahl Nitrogen	mg/L	0.10	2.0	ND		ND	3.1	ND		4.2	1.7	1.4	2.0	ND
Total Organic Carbon	mg/L	0.5	0.7	1.0		1.6	4.7	1.9		3.0	1.5	4.5	0.9	1.6
Total PCBs	ug/L	1.1	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Total Suspended Solids	mg/L	4.0	ND	ND		4.0	36	ND		160	ND	5.6	ND	ND
Toxaphene	ug/L	3.3	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene (1,3-Dichloropropylene)	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Trichloroethene	ug/L	1.0	ND	ND		ND	ND	ND		1.3	ND	ND	ND	ND
Vinyl chloride	ug/L	1.0	ND	ND		ND	ND	ND		ND	ND	ND	ND	ND
Zinc	mg/L	0.0050	ND	ND		ND	0.022	ND		0.043	ND	0.033	ND	ND

RL - reporting limit

n/a - not available
ND - none detected
NDF- No Dry Flow

APPENDIX D

ESTIMATION OF RUNOFF COEFFICIENTS

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 US 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:

$$Rv_i = (\sum A_i R_v) / (\sum A_i) \qquad \textbf{(Equation 2)}$$

Where:

Rv_i = Weighted Average Runoff Coefficient

R_v = Assigned Runoff Coefficient for each land use type

A_i = Catchment area (acres) for corresponding land use 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. The estimated runoff coefficient values for each land use category is presented in Table D-1.

The calculation of the weighted average runoff coefficient for each monitoring is given in subsequent sections.

Table D-1. Estimated Runoff Coefficients for District of Columbia

Existing Land Use Categories

Land Use Code	Description	Rv
C, O	Commercial (ac)	0.85
LDR	Low Density Residential	0.5
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	0.8
R	Parks and Open Space	0.35
S	Institutional	0.8
TROW	Transportation Right of Way	0.85
ALLEYS	alleys	0.95
MEDIAN	Median	0.3
PARKING	Parking	0.95
ROADS	Roads	0.95
TRAFFICS	TRAFFIC	0.95

WEIGHTED RUNOFF COEFFICIENT FOR EACH DRAINAGE AREA

Walter Reed	
Land Use	**Area (Acres)**
ALLEYS	0.30
C	0.05
HDR	3.19
LDR	1.26
LMDR	1.52
MDR	5.56
MEDIAN	0.10
R	0.06
ROADS	3.71
S	1.00
TROW	6.02
	0.05
Total Area	**22.81**
Weighted Runoff Coefficient:	**0.81**

Melvin Hazen	
Land Use	**Area (Acres**
ALLEYS	3.83
C	4.63
HDR	15.65
LDR	54.63
LMDR	18.95
LP	0.16
MDR	11.41
MEDIAN	0.28
MU	0.16
PQP-I	0.17
R	5.56
ROADS	23.16
S	11.15
TROW	18.10
	0.68
Total Area	**168.51**
Weighted Runoff Coefficient:	**0.70**

Military Road	
Land Use	**Area (Acres**
R	24.47
RIVER	0.00
ROADS	0.51
Total Area	**24.98**
Weighted Runoff Coefficient:	**0.36**

Klingle Valley	
Land Use	**Area (Acres**
ALLEYS	0.53
C	0.11
HDR	0.23
LDR	15.21
LMDR	4.02
MDR	0.16
R	0.27
ROADS	7.69
S	21.66
TROW	7.44
Total Area	**57.32**
Weighted Runoff Coefficient:	**0.74**

Soapstone	
Land Use	**Area (Acres**
ALLEYS	9.60
C	4.93
FP	6.68
HDR	15.33
LDR	104.51
LMDR	28.45
LP	14.07
MDR	5.97
MEDIAN	0.29
O	2.71
R	21.37
RIVER	0.00
ROADS	49.86
S	12.51
TROW	44.25
	0.02
Total Area	**320.54**
Weighted Runoff Coefficient:	**0.69**

Normanstone	
Land Use	**Area (Acres**
C	0.07
LDR	11.71
R	0.05
ROADS	2.87
S	0.40
TROW	1.57
	0.40
Total Area	**17.07**
Weighted Runoff Coefficient:	**0.60**