GOVERNMENT OF THE DISTRICT OF COLUMBIA WASHINGTON, DC



Adrian M. Fenty Mayor

Rock Creek Discharge Monitoring Report

Municipal Separate Storm Sewer System NPDES Permit No. DC0000221

August 19, 2010

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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	DMR Due Date
			Stations	
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

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

^{**} Current Report

^{***} Sampling underway

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	Sampling Location	Drainage Area
Number		(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

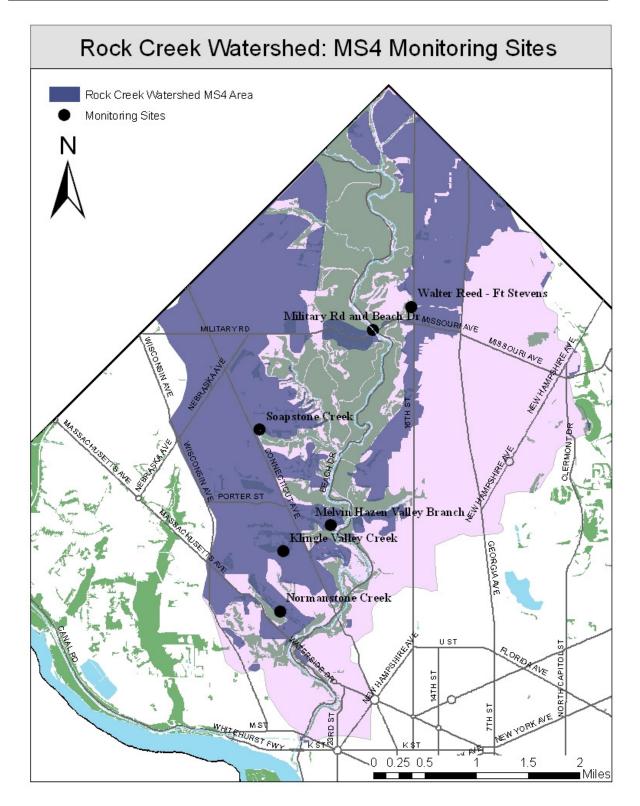


Figure 2-1 Rock Creek Watershed Monitoring Sites

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

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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	Duration (hrs)	Time to Previous	Sites Sampled
	(in.)		(days)	
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	Composite	Biochemical Oxygen Demand (5d)	SM5210B	mg/L	< 5.0
Unpreserved		Total Dissolved Solids	SM2540C	mg/L	<1.0
		Total Suspended Solids	SM2540D	mg/L	<1.0
500 mL	Composite	Phosphorus, Total	EPA 365.3	mg/L	< 0.05
Plastic H ₂ SO ₄		Nitrite + Nitrate	EPA 353.2	mg/L	< 0.05
		Chemical Oxygen Demand	EPA 410.4	mg/L	<10.0
		Total Kjeldahl Nitrogen	EPA 351.3	mg/L	<0.5
250 mL	Composite	Phosphorus, Dissolved	EPA 365.3	mg/L	<0.5
Plastic,					
Filtered,					
H_2SO_4					

Bottle Type	Sample Type	Parameter	Method	Units	MDL
1000 mL	Composite	Hardness, Total	EPA 130.2	mg/L	
Plastic HNO ₃		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		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	Grab	Fecal Coliform	SM9221E	MPN	
Plastic, Sterile		Fecal Streptococcus	SM9230B	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 ₂ SO ₄ Teflon Lids	Grab	Phenols, Total	EPA 420.2	mg/L	1.9
1-L Glass Amber H ₂ SO 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	Composite	Total Ammonia + Organic	EPA 351.3	mg/L	0.2
Plastic H ₂ SO ₄		Nitrogen (TKN)			
	Field Test	Dissolved Oxygen	EPA 360.1	mg/L	N/A
500 mL Plastic H ₂ SO 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	- ·	.	Water Temp		DO (1)	TRC	Conductivity
ID	Location	Date	(°C)	pН	DO (mg/l)	(mg/L)	(µS)
1	Walter Reed (Ft	10/15/09	13.0	7.2	10.1	< 0.03	
	Stevens)	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	10/15/09	11.9	7.3	9.8	< 0.03	
	Beach Dr	12/13/09	7.7	7.2		< 0.03	18,000
		3/26/10	11.4	6.9	8.52	< 0.03	2,400
		10/15/09	14.1	7.66	10.82		139.6
3	Soapstone	12/13/09	11.9	7.9		< 0.03	1,500
		3/26/10	14.7	7.0	8.67	< 0.03	850
4	3.6.1.1. XX	10/15/09	12.8	6.9	6.5	< 0.03	
	Melvin Hazen	3/22/10	16.6	8.1	9.15		ND
		5/11/10	15.6	7.82	9.26	0.18	536
5	Y711 1 Y7 11	10/15/09	15.1	8.45			130
	Klingle Valley	12/13/09	12.5	7.8		< 0.03	570
		3/22/10	14.6	7.77	9.12		ND
		10/15/09	15.2	7.44	8.79		245
6	Normanstone	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)	pН	DO	TRC (mg/L)	Cond (µS)
1	Walter Reed (Ft	10/7/09	16.9	7.1		< 0.03	
1	Stevens)	4/21/10	13.5	6.5	10.1	< 0.03	1520
2	Military Rd and	NDF					
2	Beach Dr	4/21/10	11.4	6.9	10.1	< 0.03	1240
2) Commente de	10/7/09	19.6	7.9		< 0.03	
3	Soapstone	4/8/10	16.2	6.9	10.1	< 0.03	975
4	Melvin Hazen	NDF					
4	Meivin Hazen	5/10/10	17.2	7.71	7.3	0.5	750
_	V1:1- V-11	12/16/09	18.5	7.2	120.0	< 0.03	860
5	Klingle Valley	4/8/10	14.4	6.8	10.5	< 0.03	765
6	Namanatana	10/7/09	16.6	7.4		< 0.03	
6	Normanstone	4/8/10	14.3	6.8	10.3	< 0.03	845

NDF – No Dry Flow

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

⁻⁻ Data not available

 μ g/L) and copper (11.1 to 146.0 μ g/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 μ g/L (Melvin Hazen) to 183.6 μ g/L (Klingle Valley). Arsenic (As) was only detected at the Military Road site (4.25 μ g/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	FCa	O&G	Zn ^{bc}	Pbbc	Cu ^{bc}	As ^{bc}	PAH 1 ^c	PAH 2 ^c	PAH 3 ^c	Chlordanec	Heptachlor ^c	Dieldrin ^c	DDT ^c	DDEc	DDDc	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

^aUnits are in MPN/100ml

^bTotal recoverable metals

^cUnits are in µg/L

^dgeometric 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	Chlordanec	Heptachlor ^c	Dieldrin ^c	DDT ^c	DDEc	DDDc	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

^aUnits are in MPN/100ml

^bTotal recoverable metals

^cUnits are in µg/L

^dgeometric 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:

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

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C = Geomean of EMCs =
$$\left[\prod_{j=1}^{m} EMC_{j}\right]^{\frac{1}{m}}$$
 (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:

$$L_A = \left(\frac{\sum L_i}{\sum A_i}\right)(A_i)$$
 (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)

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Table 7-2 contains the computed pollutant loads from each of the contributing sub-watersheds

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	FCa	O&G	Cdb	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° (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° (n=3)	126.4 (n=3)	4.90 (n=3)	4.42 (n=3)	0.05° (n=3)	0.088 (n=3)	861.8° (n=3)	2.57° (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° (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° (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)

^aUnits are in MPN/100mls

^bTotal Recoverable Metals

^cgeometric mean was calculated using half of detection limit or reporting limit if the analysis results show "none detected" or below reporting limit"

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

^aTotal Recoverable Metals

bUnits 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.

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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		nge
(A) Volatile Organic Compounds		From	То
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	Ran	ge
(D) Pesticides/PCBs (Cont.)		From	То
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

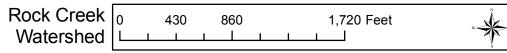
Table 8-2. (cont.) DETECTED PARAMETERS IN THE ROCK CREEK RIVER WATERSHED (From 83 storm water sampling events 2003 thru 2010)

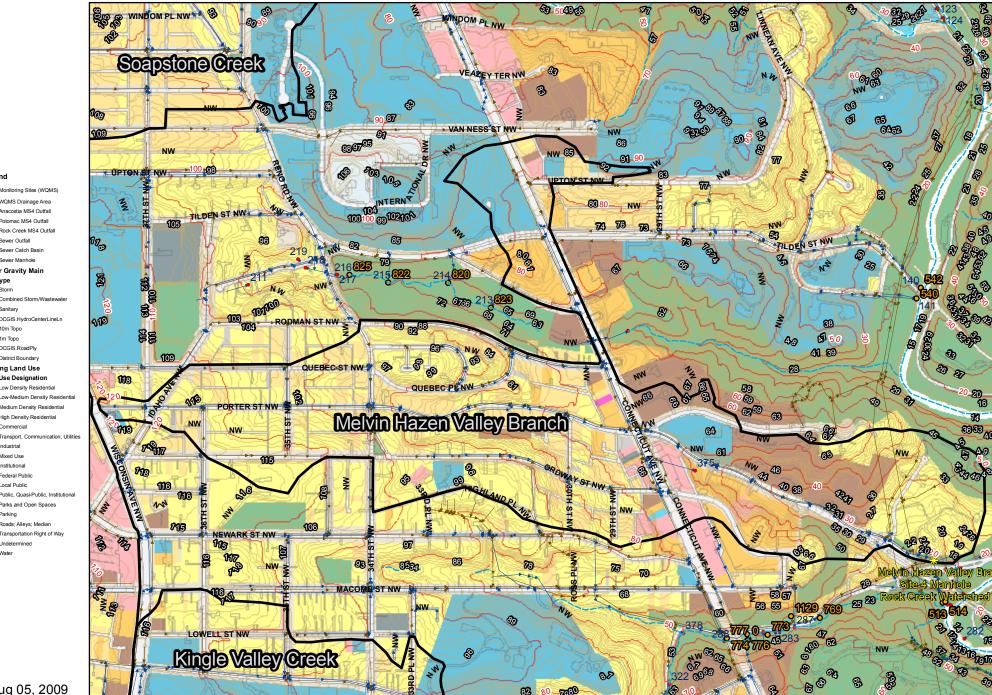
Detected Parameters	Unit	R	ange
(F) Conventional Pollutants (Cont.)		From	То
Fecal Streptococcus	MPN/100ml	2	1,100,000
Total Kjeldahl Nitrogen (TKN)*	mg/l	0.48	780
Nitrate + Nitrite (NO ₂ + NO ₃)	mg/l	0.064	22
Dissolved Phosphorous	mg/l	0.00009	1.1
Total Phosphorous (TP)	mg/l	0.076	13

APPENDIX A ROCK CREEK WATERSHED MONITORING SITES

Rock Creek 0 Kingle Valley Creek 1,020 Feet 255 510 Watershed Melvin Herzen Valley Branch 900 JUB 102 NEWARK ST NW DES. 9 93 93 B 84% 72 Legend MACOMB ST NW Monitoring Sites (WQMS) WQMS Drainage Area Anacostia MS4 Outfall NW Potomac MS4 Outfall Rock Creek MS4 Outfall Sewer Outfall 111 ₁₀₉ 🛢 Sewer Catch Basin LOWELL ST NW Sewer Gravity Main FlowType NW Combined Storm/Wastewater WOODLEY RD NW DCGIS.HvdroCenterLineLn **6** NW @ 1m Topo 69 8I DCGIS.RoadPly Kingle Valley Greek 68 82 **Existing Land Use** Land Use Designation Low Density Residential Klingle Valley Creek Low-Medium Density Residential क्य हार Site 5 Manhole High Density Residential Rock Creek Watershed 93 8 KLINGLE RD NW Industrial Institutional 88 Federal Public 3 Local Public EAND PL NV Public, Quasi-Public, Institutional Parks and Open Spaces Parking Transportation Right of Way

Melvin Hazen Valley Branch





Transportation Right of Way

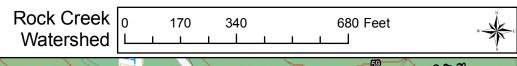
Monitoring Sites (WQMS) WQMS Drainage Area

> Anacostia MS4 Outfall Potomac MS4 Outfall

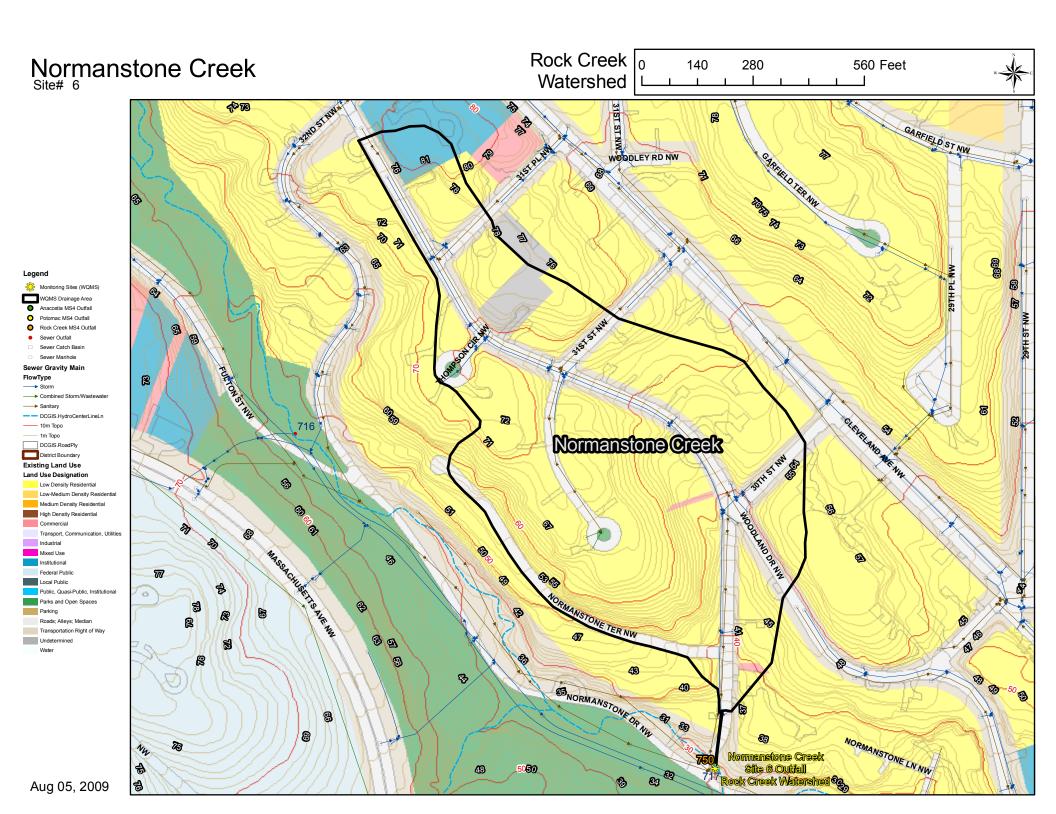
FlowType

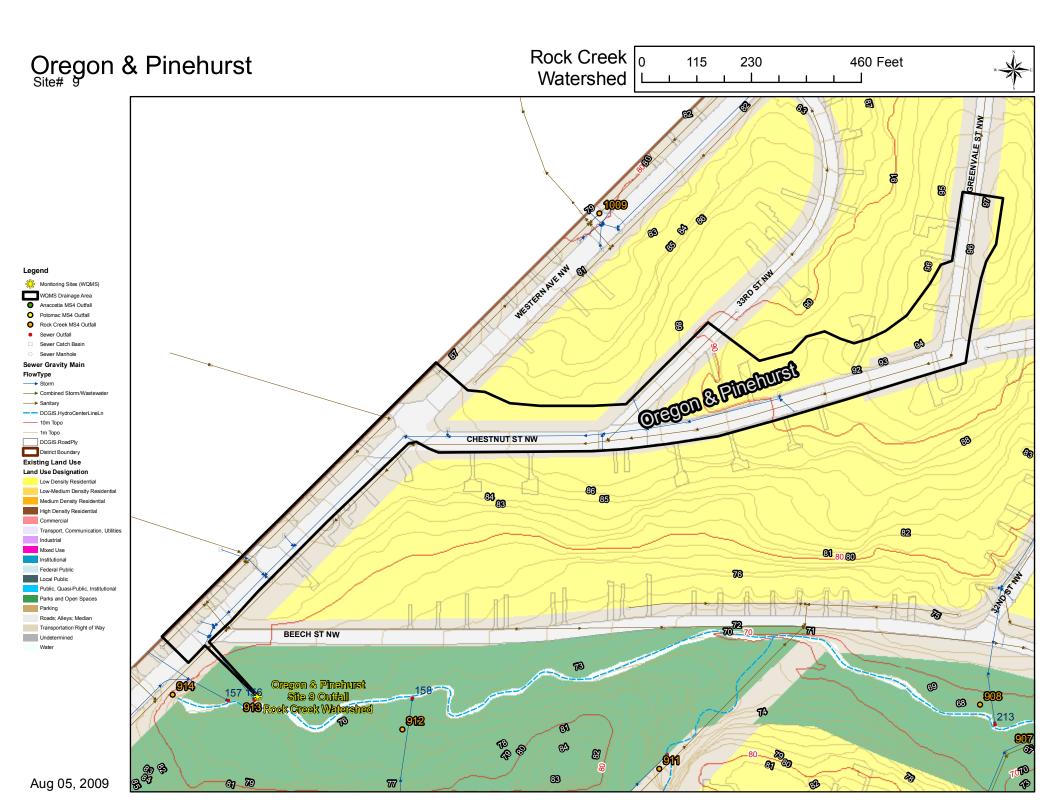
Land Use Designation

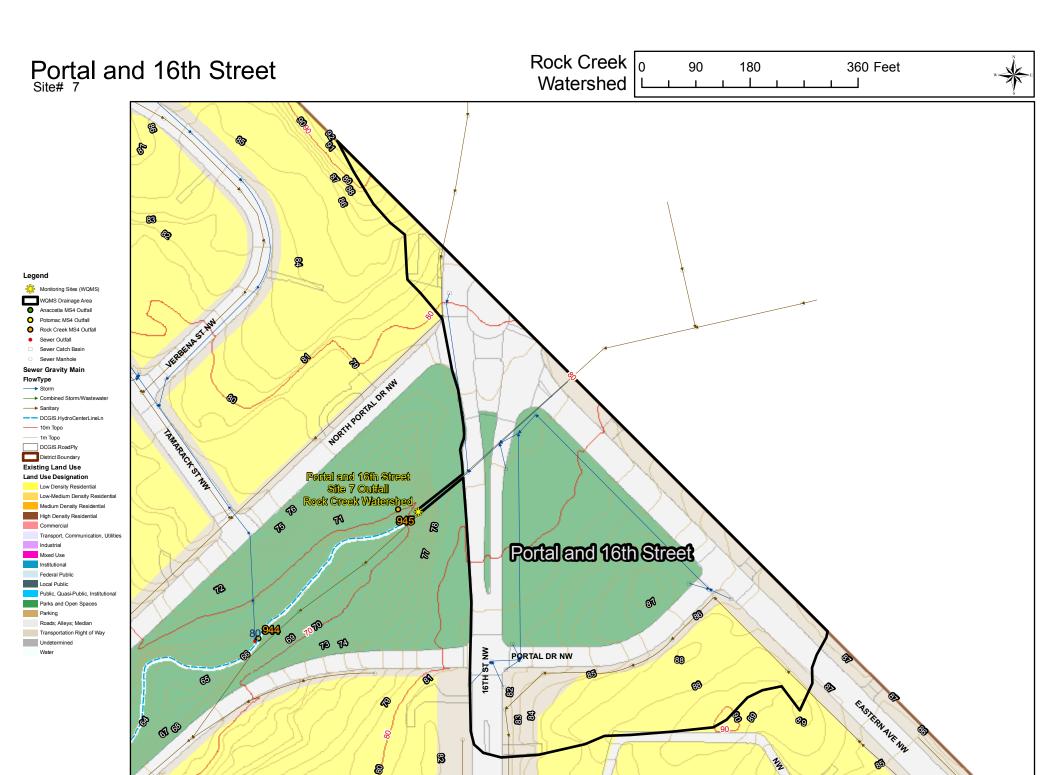
Military Rd and Beach Dr











Soapstone Creek

Legend

FlowType

Monitoring Sites (WQMS)

WQMS Drainage Area

Anacostia MS4 Outfall

Potomac MS4 Outfall

Combined Storm/Wastewat

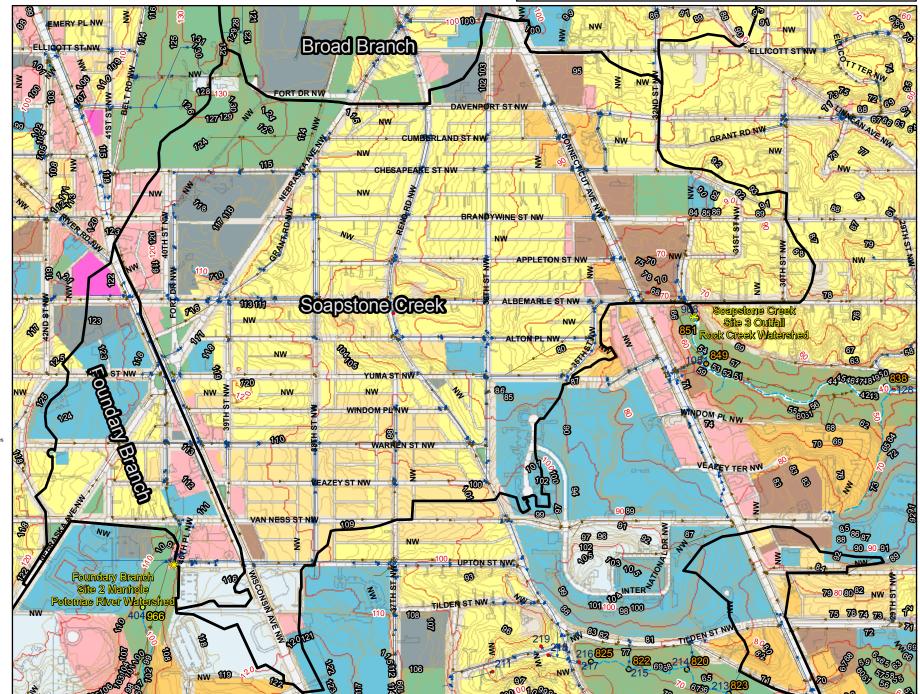
DCGIS.RoadPly
District Boundary
Existing Land Use
Land Use Designation

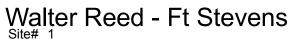
Low-Medium Density Residential

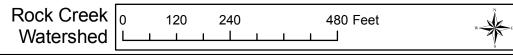
Public, Quasi-Public, Institutional Parks and Open Spaces

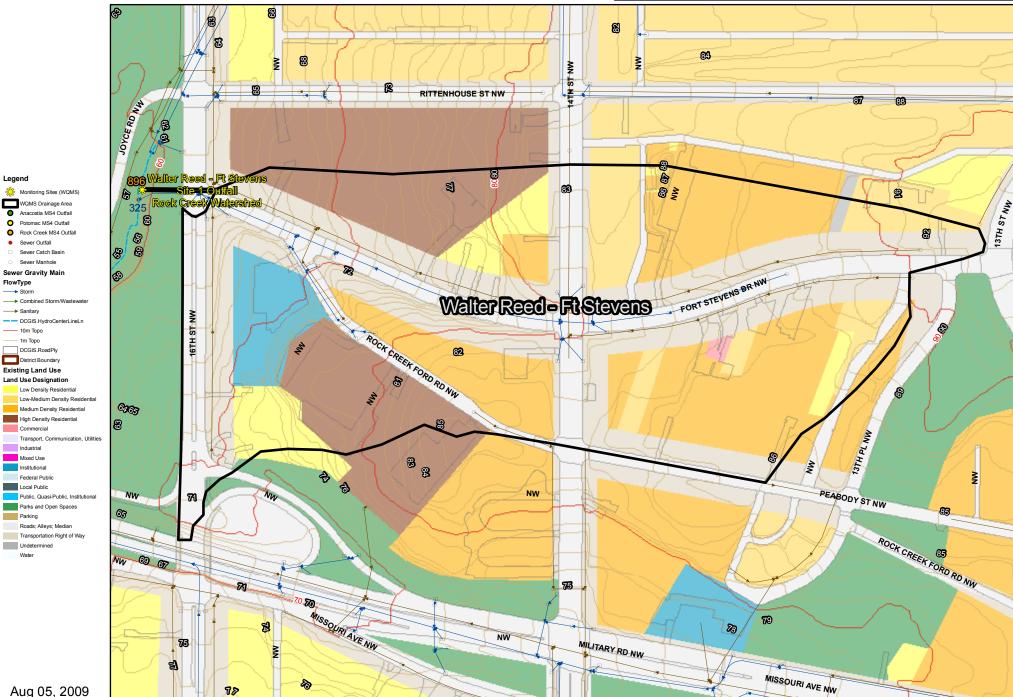
Transportation Right of Way
Undetermined

Rock Creek Watershed 425 850 1,700 Feet









APPENDIX B ROCK CREEK WATERSHED DISCHARGE MONITORING REPORT

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

The Government of the District of Columbia-DDOE NAME

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

FACILITY:

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

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

MS1-A DC0000221

DISCHARGE NUMBER

MM/DD/YYYY

20002 DMR Mailing ZIP CODE: WALTER REED-FORT STEVENS DRIVE

No Discharge

External Outfall MAJOR 12/31/2010 MONITORING PERIOD ဥ MIM/DD/YYYY PERMIT NUMBER 01/01/2010 FROM DISTRICT DEPARTMENT OF THE ENVIRONMENT I

DARAMETER		QUANTITY	TITY OR LOADING		์ - -	QUALITY OR CONCENTRATION	ENTRATION		Š	FREQUENCY OF AMALYSIS	SAMPLE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			<u>.</u>
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	******	*****	****	******	不分子中	57.9				
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	Araba de Araba	No. of the last of	****	*************************************	*****	Red. Mon. ANNL MÅX	deg F		Three Per Year	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	***	***	******	***	****	17.0				
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	*************************************	*****	****	****	A Property of	Red. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Hď	SAMPLE MEASUREMENT		****	******	2.0	******	1.93				
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	1-1	*>***	******	Req. Mon. MiNIMUM	***	Reg. Mon. ANNL MAX	ns.		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	****	*****		*****	64		· · · · · · · ·		. "
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	· · · · · · · · · · · · · · · · · · ·	and statement	*****	*****	*****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Oii & grease	SAMPLE MEASUREMENT	AND TOWNS .	****	******	******	******	45	,	,		
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	Aria New York	*****	***	****	* 中央市场市	Reg. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	A-P S-M-P-P-	******	*****	电子电影电池	HARMAN	6.3				
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	# spinore #	*****	*****	*****	*****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Nitrogen, organic total (as N)	SAMPLE MEASUREMENT	*****	Art article article	April minimum by No.	****	****	NR				
00605 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	Mark to the state of the state	****	****	*****	Red. Mon. ANNL MAX	т9/L		Three Per Year	COMPOS

TELEPHONE	202-535-160	AREA Code NUMBER
	Gm Sa	SIGNA JORRE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
l certify under penalty of law that this document and alf attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gather and	eventate for an internationa structured assets on any inquiry of the persons for pressure then among the be- system, or those pressure through responsible for gathering the information, the information submitted is, to the set of any answering the and belief, they recently and compiled a many that the three are significant and the set of any families of the information in the international for the research of the personal for the manufact for extension of the personal for the personal for the personal for the international for the international for the personal manufact for the personal formation	SIGNATERE OF PRINCIPAL EXECUTIVE OFFICER OR ARE AUTHORIZED AGENT
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	Tother Coltra	YPED OR PRINTED

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 ORTLY, REPORTED ANNLY. NNLY.

MM/DD/YYYY

DATE 08/18

> 535-1603 NUMBER

DISCHARGE MONITORING REPORT (DMR)

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

The Government of the District of Columbia-DDOE NAME

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

DISTRICT DEPARTMENT OF THE ENVIRONMENT ! FACILITY:

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

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

MS1-A PERMIT NUMBER DC0000221

DISCHARGE NUMBER

DMR Mailing ZIP CODE: MAJOR

20002

WALTER REED-FORT STEVENS DRIVE External Outfall No Discharge

MM/DD/YYYY 12/31/2010 MONITORING PERIOD ٤ MM/DD/YYYY 01/01/2010 FROM

		- 1									
PARAMETER		QUANTITY	TTY OR LOADING		Ö	QUALITY OR CONCENTRATION	ENTRATION		충핐	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	AALUE	UNITS	VALUE	AALUE	VALUE	UNITS			
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	******	****	hand protection by	******	******	NR				
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	****	***	**************************************	华不安帝之本	******	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Nitrogen, Kjeldahl, total (as N)	SAMPLE MEASUREMENT	*****	*****	***	***	e benned	3.6				1
00625 1 0 Effluent Gross	PERMIT REQUIREMENT	***************************************	** ***		*****	*****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Nitrite plus nitrate total 1 det. (as N)	SAMPLE MEASUREMENT	******	*****	Water Colonial	******	******	2.6				
00630 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	***	******	* Property in	*****	Reg. Mon. ANNL MAX	mg/L	:	Three Per Year	COMPOS
Phosphorus, total (as P)	SAMPLE MEASUREMENT	жандар	*****	******	*****	******	0.26				
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	And Andrews	in the State of the	***	*****************************	#-Manner.	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Phosphorus, dissolved	SAMPLE MEASUREMENT	Marie de la casa de la	*****	No. Section Section 19	*****	*****	0.18				
00666 1 0 Effluent Gross	PERMIT REQUIREMENT	****	*****	***	*****	*Andrew .	Rea, Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Cyanide, total (as CN)	SAMPLE MEASUREMENT	A service of the serv	HATE MATERIAL	***	****	****	ON				
00720 1 0 Effluent Gross	PERMIT REQUIREMENT	******	»-r/hau»	*****	******	*****	Reg, Mon. ANNL MAX	mg/L	:	Three Per Year	GRAB
Hardness, total (as CaCO3)	SAMPLE MEASUREMENT	- Non-John Avag	*****	****	****	***********	081				-
00900 1 0 Effluent Gross	PERMIT REQUIREMENT	A.H. and Andrews	******	****	****	官家作者者女	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

INCLUDE CALCULATE CAPTICER supervisor in accordance with a system designed to assure that qualified personnel property gather and professional property gather and professional property gather and professional prof		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	Veffocy Seltzer	

E E		田田	TELEPHONE	DATE	
d is fround	Commen	202-	2091-525	202-525-1603 08/13/2010	
Swang	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY	

ROCK CREEK WATERSHEDSEWER STATION LOCATION NAMES CHANGED TO WALTER REED (FORT STEVENS DRIV) EFFECTIVE FOR 1 YR ONLY 2006, MON. IS GRTLY, REPORTED ANNLY, INNLY. COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DISCHARGE MONITORING REPORT (DMR)

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

The Government of the District of Columbia-DDOE

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

DISTRICT DEPARTMENT OF THE ENVIRONMENT ! FACILITY:

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

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

FROM

PERMIT NUMBER DC0000221

DISCHARGE NUMBER MM/DD/YYYY 12/31/2010 MS1-A MONITORING PERIOD ٤ MM/DD/YYYY 01/01/2010

20002 DMR Mailing ZIP CODE:

MAJOR

WALTER REED-FORT STEVENS DRIVE External Outfall No Discharge

SAMPLE TYPE COMPOS COMPOS COMPOS COMPOS COMPOS COMPOS COMPOS FREQUENCY OF ANALYSIS Three Per Year Thrèe Per Year 혖껇 UNITS #/100mi mg/L mg/L mg/L ∏/bш mg/L mg/L 0.032 60,000 Reg. Mon. ANNL MAX Red Mon. ANNL MAX Req. Mon. ANNL MAX Req. Mon. ANNL MAX Reg. Mon. ANNL MAX Req. Mon. ANNL MAX Req. Mon. ANNL MAX 3 QUALITY OR CONCENTRATION VALUE 5 5 Ş Ş VALUE **** **** ***** ***** ***** ***** VALUE Krient Art *** ***** ***** **** ***** UNITS **** ***** **** ***** Water test ***** KWW KR ***** QUANTITY OR LOADING VALUE ***** ***** **** ***** ***** ***** **** **** VALUE **** ***** ***** ***** ***** ***** **** ***** SAMPLE MEASUREMENT PERMIT REQUIREMENT PCB-1242 bot. dep., dry solid PARAMETER Base/neutral compounds Fecal streptococci, MF m-enterococcus ag Acid compounds 31679 1 0 Effluent Gross 32015 1 0 Effluent Gross 39488 1 0 Effluent Gross 32020 1 0 Effluent Gross 34671 1 0 Effluent Gross 39492 1 0 Effluent Gross 39499 1 0 Effluent Gross PCB-1016 PCB-1232 PCB-1221

TELEPHONE	202-535-1603	R AREA Code NUMBER
7	Ams	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OF
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 property gather and	evaluate its information submitted Based on puri quiruge of the pates no protocons who manage the evaluate its information submitted Based on puri quarte of the information. the information albimitted is, system, or these persons infantly responsible for gathering the information. the information submitted is, to the base for why chowledge and facility that are also also the protocol and the protocol and are also the protocol a	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	Tother Coltra	OR PRINTED

ROCK CREEK WATERSHEDSEWER STATION LOCATION NAMES CHANGED TO WALTER REED (FORT STEVENS DRIV)EFFECTIVE FOR 1 YR ONLY 2006.MON. IS QRTLY, REPORTED ANNLY, INLY. COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Lorab Samula Type was use coses. EPA Form 3320-1 (Ref. Di/Os) Prefibous editions may be used.

o arameter. For the Following

Page 3

08/13/240

DATE

TELEPHONE

MM/DD/YYYY

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

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

The Government of the District of Columbia-DDOE NAME

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

DISTRICT DEPARTMENT OF THE ENVIRONMENT I FACILITY:

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

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

MS1-A PERMIT NUMBER DC0000221

DISCHARGE NUMBER

DMR Mailing ZIP CODE: MAJOR

20002

WALTER REED-FORT STEVENS DRIVE External Outfall

No Discharge

MM/DD/YYYY MONITORING PERIOD

12/31/2010 ဠ MM/DD/YYYY 01/01/2010 FROM

PARAMETER		QUANTITY	TTY OR LOADING		QL	QUALITY OR CONCENTRATION	ENTRATION		Š.X.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	AALUE	UNITS	VALUE	NALUE	VALUE	UNITS			
PCB-1248	SAMPLE MEASUREMENT	****	*****	*****	****	*****	ÓΝ				
39500 1 0 Effluent Gross	PERMIT REQUIREMENT	***	****	· · · · · · · · · · · · · · · · · · ·	To the second	****	Red Mon. ANNL MAX	₩6W		Three Per Year	COMPOS
PCB-1254	SAMPLE MEASUREMENT	****	******	*****	***	*******	ND				
39504 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		****	****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1260	SAMPLE MEASUREMENT	de to terminale to	******	*****	*****	****	ON				
39508 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	****	*****	****	****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Phenois	SAMPLE MEASUREMENT	******	7-7-M-13-N	*****	*****	*******	0.54				
46000 1 0 Effluent Gross	PERMIT REQUIREMENT	n e spanete	***	*****	****	********	Reg. Mon. ANNE MAX	J/6ш		Three Per Year	GRAB
Sofids, total dissolved (TDS)	SAMPLE MEASUREMENT	******	*****	*****	4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Property and the state of	096				
70296 1 0 Effluent Gross	PERMIT REQUIREMENT	www.	man was and a	******	美文明 原的	*****	Reg, Mon, ANNL MAX	mg/L		Three Per Year	COMPOS
Pesticides, general	SAMPLE MEASUREMENT	****	*****	*****		Non-serve de	an				
74053 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	******	*****	*****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Coliform, fecal general	SAMPLE MEASUREMENT	*****	*****	******	##########	***	160,000	-			
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	****		**************************************	***	****	Red. Mon. ANNL MAX	#/100mL		Three Per Year	COMPOS

1	202 -	
* (SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	
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 property gather and	and until the information as formered these of one my instance of the person to represse who manage the system, or these persons intends represent the information submitted is, to the to the xironicity and because it may be a submitted in the content of the xironicity and because it is not the xironicity and because it is not a content, that compare I am average that there are significant product for administing false information including the possibility of the and improvement for knowing SII relations.	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	Jeffrey SeltZer	

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. ANNLY.

EPA Form 3320-1 (Rev. 01/108) Previous editions may be used.

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Page 4

113/2010

-535-1603 NUMBER

DATE

ELEPHONE

MM/DD/YYYY

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

The Government of the District of Columbia-DDOE

OCATION:

DC0000221

MS1-A

DMR Mailing ZIP CODE:

SAMPLE TYPE COMPOS GRAB GRAB No Discharge WALTER REED-FORT STEVENS DRIVE 20002 FREQUENCY OF ANALYSIS Three Per Year Three Per Year Three Per Year ĕΩ External Outfall UNITS mg/L mg/L ⊒/ĝw MAJOR Req. Mon. ANNL MAX Req. Mon. ANNL MAX Req. Mon. ANNL MAX VALUE 0.0 10 QUALITY OR CONCENTRATION 10 VALUE **** ***** ***** ***** DISCHARGE NUMBER MM/DD/YYYY 12/31/2010 VALUE **** 1 ***** MONITORING PERIOD բ UNITS ***** ***** ***** **** ľ MM/DD/YYYY PERMIT NUMBER 01/01/2010 QUANTITY OR LOADING VALUE **** ***** **** FROM VALUE ***** **** ***** DISTRICT DEPARTMENT OF THE ENVIRONMENT I SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT PERMIT REQUIREMENT PERMIT REQUIREMENT 51 N. STREET, N.E., 5TH FLOOR WASHINGTON, DC 20001 441 4TH STREET, N.W. WASHINGTON, DC 20001 ATTN: julia evans, P.E./Senior Envir Chemical Oxygen Demand (COD) /olatile compounds, (GC/MS) PARAMETER 81017 1 0 Effluent Gross 78240 1 0 Effluent Gross 78732 1 0 Effluent Gross Metals, total ADDRESS: FACILITY:

TELEPHONE	809/-585-700	R AREA Code NUMBER
	C. Marson	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
I certify under penalty of two that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gather and	scratted for information submitted Based on my mapure of the persons of persons who analoge the system, or those persons durely responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, occurate, and compilere I am aware that there are significant.	presides for structing take understands to including the possibility of the and unprisonment for fixowing SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR ARE AUTHORIZED AGENT
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	74. C.12.	TYPED OR PRINTED

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 ORTLY, REPORTED ANNLY INLY.

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Common S. Te Sommo le Type Was U.C. CO EPA Forth 3320-1 (Rev. D1/06) Previous editions riky be used.

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Page 5

08/13/2010

DATE

MM/DD/YYYY

DISCHARGE MONITONING REPORT (DMR)

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

The Government of the District of Columbia-DDOE ADDRESS: NAME:

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

DISTRICT DEPARTMENT OF THE ENVIRONMENT NA FACILITY:

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

DISCHARGE NUMBER MS2-A PERMIT NUMBER DC0000221

20002 DMR Mailing ZIP CODE:

MAJOR

MILITARY ROAD AND BEACH DRIVE

No Discharge

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

External Outfall MM/DD/YYYY 08/31/2010 MONITORING PERIOD ဥ MM/DD/YYYY 09/01/2009 FROM

PARAMETER		QUANTITY O	TITY OR LOADING		් 	QUALITY OR CONCENTRATION	ENTRATION	-	ŠΩ	FREQUENCY OF ANALYSIS	SAMPLE
•		VALUE	VALUE	UNITS	ALUE	VALUE	VALUE	STINO			
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	******	****	*****	***	*****	534				
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	****	******	******	Assessed	Req. Mon. ANNL MAX	i. Sap	 	Three Per Year	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	******	*****	***	****	*****	30				÷
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	· · · · · · · · · · · · · · · · · · ·	******	******	*****	Req. Mon. ANNL MAX	пд/Г		Three Per Year	COMPOS
Hd	SAMPLE MEASUREMENT	*****	等 田 外原 电	******	6.9	******	2.3				
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	AKI BATIK	水准有水水油	*****	Reg, Mon. MINIMUM	******	Req. Mon. ANNL MAX	ns		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	****	*****	******	*******	***	2,600				
00530 1 0 · · Effluent Gross	PERMIT REQUIREMENT	****	Ji-sa di salahada	******	****	****	Reg, Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Oil & grease	SAMPLE MEASUREMENT	*****	******	******	*****	*****	14				-
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	Silvivion	у, жа да жанда қа	· · · · · · · · · · · · · · · · · · ·	****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	tra-stane	Alleria de simila de	****	76-14 A 47-14-15	******	15:0				
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	sodnich	*****	*****	*****	******	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Nitrogen, organic total (as N)	SAMPLE MEASUREMENT	******	******	******	*****	******	NR				
00605 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	wasters	***	****	****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

NAME/ITTLE PRINCIPAL EXECUTIVE OFFICER Suppression in the true document and all attachments were prepared under my direction or approximate to the same designed to assect that underlined personal property against an approximate that are assect that underlined personal property against an approximate the property against an approximate the property against an approximate the property of the property against a	system or these present large and paying its great paying the friends with the season of a system or the service in the best of the season in the se	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	Jeffrey Seltzer	/ TYPED OR PRINTED

SURNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AREA COCC NUMBER AUTHORIZED AGENT	202-535-160	3 08/13/2010
	VE OFFICER OR AREA Code NI	MM/DD/YYYY

DATE

TELEPHONE

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 ANNILMON. IS QRTLY, REPORTED ANNILMON.

DISCHARGE MONITONING REPORT (DMR)

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

The Government of the District of Columbia-DDOE ADDRESS: NAME

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

DISTRICT DEPARTMENT OF THE ENVIRONMENT NA FACILITY:

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

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

DISCHARGE NUMBER MS2-A PERMIT NUMBER DC0000221

MM/DD/YYYY 08/31/2010

MM/DD/YYYY

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09/01/2009

FROM

MONITORING PERIOD

MAJOR

20002

DMR Mailing ZIP CODE:

MILITARY ROAD AND BEACH DRIVE External Outfall

No Discharge

SAMPLE TYPE COMPOS COMPOS COMPOS COMPOS COMPOS COMPOS GRAB FREQUENCY OF ANALYSIS Three Per Year ĞΫ UNITS ∏g/L mg/L mg/L mg/L mg/L mg/L mg/L 0.047 Req. Mon. ANNL MAX 0.27 240 VALUE 14.0 QUALITY OR CONCENTRATION 0.1 ×× 1 VALUE ***** ***** ***** ***** ***** ***** ***** į VALUE **** **** **** ***** **** **** **** UNITS ***** **** ***** **** **** ***** ***** ***** **** ** į QUANTITY OR LOADING VALUE **** **** **** **** ***** **** VALUE ***** ***** **** ***** ***** ***** *** **** SAMPLE MEASUREMENT PERMIT REQUIREMENT Vitrite plus nitrate total 1 det. (as N) Vitrogen, ammonia total (as N) Nitrogen, Kjeldahl, total (as N) Hardness, total (as CaCO3) PARAMETER Phosphorus, total (as P) Phosphorus, dissolved Cyanide, total (as CN) 00610 1 0 Effluent Gross 00630 1 0 Effluent Gross 00665 1 0 Effluent Gross 00720 1 0 Effluent Gross 00900 1 0 Effluent Gross 00625 1 0 Effluent Gross 00666 1 0 Effluent Gross

electify under penalty of law that this document and all attachments were prepared under my direction or repression in accordance with a system designed to assure that qualified became they guther and refution the information of married faced or my intuition of the person or process who assures the	Secure to those pressons directly responsible for gallering the information the information shalling at rottine best of insynavolage, and collect the accurate and sampling in an owar that there are significant to a submitting files information, including the possibility of fine and impressonment for knowing whicheast.	
NAME/ITLE PRINCIPAL EXECUTIVE OFFICER supervision is accommodate with a special designed to the supervision of supervision is accommission which present designed in secure that unfilled presented property guide and actions in the format of the control of the property supervision is accommission to the property supervision of the property of the	JEFFRY Selfzer industrial and the provider of the peak of any providers of the population of the peak of any providers of the peak of any providers of the peak of any providers of the peak of the pe	/ TYPED OR PRINTED

DATE	010E/E1/80 809/35-200	MM/DD/YYYY	
TELEPHONE	5094.255	NUMBER	
TE	-202	AREA Code	
	Ch mis	SPENATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	

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.

LIMINATION SYSTEM (NPDES) DISCHARGE MONITGOING REPORT (DMR) NATIONAL POLLUTANT DISCHAF

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

The Government of the District of Columbia-DDOE ADDRESS: NAME

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

DISTRICT DEPARTMENT OF THE ENVIRONMENT NA 51 N. STREET, N.E., 5TH FLOOR WASHINGTON, DC 20001 LOCATION: FACILITY:

ATTN: julia evans, P.E./Senior Envîr

MS2-A PERMIT NUMBER DC0000221

DISCHARGE NUMBER MONITORING PERIOD

MM/DD/YYYY 08/31/2010

MM/DD/YYYY

բ

09/01/2009

FROM

20002 DMR Mailing ZIP CODE:

MAJOR

No Discharge MILITARY ROAD AND BEACH DRIVE External Outfall

									C Z	VOKUMOJOT	CAMEDIE
PARAMETER		QUANTITY O	IITY OR LOADING		ช	QUALITY OR CONCENTRATION	ENTRATION		<u></u>	PREQUENCY OF ANALYSIS	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	*****	*****	****	*****	****	Reg. Mon. ANNI, MAX	#/100mL		Three Per Year	GRAB
Base/neutral compounds	SAMPLE MEASUREMENT	*****	. *****	****	· · · · · · · · · · · · · · · · · · ·	*****	6.00.69				
32015 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	******	*****	****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Acid compounds	SAMPLE MEASUREMENT	****	*****	******	· · · · · · · · · · · · · · · · · · ·	********	ON				
32020 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	****	*****	***	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1016	SAMPLE MEASUREMENT	******	2.44.0.45.46	*****	*****	*****	an				
34671 1 0 Effluent Gross	PERMIT REQUIREMENT	****	*****	****	****	****	Req. Mon. ANNL MAX	T/6tu		Three Per Year	COMPOS
PCB-1221	SAMPLE MEASUREMENT	***	****	*****	*****	****	ON				,
39488 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	******	*****	Req. Mon. ANNL MAX	⊤/ɓw		Three Per Year	COMPOS
PCB-1232	SAMPLE MEASUREMENT	*****	***	****	*****	*****	ON				
39492 1 0 Effluent Gross	PERMIT REQUIREMENT	****	· · · · · · · · · · · · · · · · · · ·	*****	***************************************	****	Reg. Mon. ANNL MAX	.ŋ/ɓw		Three Per Year	COMPOS
PCB-1242 bot. dep., dry solid	SAMPLE MEASUREMENT	*****	*****	****	*****	*****	ON				
39499 1 0 Effluent Gross	PERMIT REQUIREMENT	****	******	*****	******	******	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

NAME/ITLE PRINCIPAL EXECUTIVE OFFICER System of the comment and all atteinments were propared under my comment and all atteinments were propared under my commend obtained to state that qualified passement proparity to a proparity of the comment o	system, or those powers directive responsible for galaxies the information as in the best of any boundaries and belief. Two accounts and complete I am ware that there are varieties to a submitted of the way to the the or the properties of a submitted of the submitted that the or and mapped on the present of the present	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	Jethey Seltzer	TYPED OR PRINTED

202-5-35-1603 NUMBER TELEPHONE AREA Code TURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

08/13/2010

DATE

MMADDAYYY

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 ANNILMON, IS QRTLY, REPORTED ANNILMON.

ELIMINATION SYSTEM (NPDES) DISCHARGE MONITURING REPORT (DMR) NATIONAL POLLUTANT DISCHAF

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

The Government of the District of Columbia-DDOE ADDRESS: NAME:

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

DISTRICT DEPARTMENT OF THE ENVIRONMENT NA FACILITY:

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

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

MS2-A PERMIT NUMBER DC0000221

DISCHARGE NUMBER

20002 DMR Mailing ZIP CODE:

MM/DD/YYYY 08/31/2010 բ MM/DD/YYYY 09/01/2009 FROM

MONITORING PERIOD

MILITARY ROAD AND BEACH DRIVE External Outfall MAJOR

No Discharge

PARAMETER		QUANT	QUANTITY OR LOADING		ð	QUALITY OR CONCENTRATION	ENTRATION		NO.	FREQUENCY OF ANALYSIS	SAMPLE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
PCB-1248	SAMPLE MEASUREMENT	******	******	*****	**	***	ON				
39500 1 0 Effluent Gross	PERMIT REQUIREMENT	****	*****	****	*****	****	Reg. Mon. ANNL MAX	T/6tu	ì	Three Per Year	COMPOS
PCB-1254	SAMPLE MEASUREMENT	*****	****	***	***	. ****	ON				
39504 1 0 Effluent Gross	PERMIT REQUIREMENT	计平均计算	stables.	****	***	****	Reg, Mon. ANNL MAX	T/6m		Three Per Year	COMPOS
PCB-1260	SAMPLE MEASUREMENT	*****	****	*****	*****	***	QV.				
39508 1 0 Effluent Gross	PERMIT REQUIREMENT	****	*****	******	*****	******	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Phenols	SAMPLE MEASUREMENT	*****	****	*****	*	*****	890.0				
46000 1 0 Effluent Gross	PERMIT REQUIREMENT	***	专家者於他有	*****	****	*****	Red, Mon. ANNL MAX	T/6m		Three Per Year	GRAB
Solids, total dissolved (TDS)	SAMPLE MEASUREMENT	****	****	***	****	****	4,700				
70296 1 0 Effluent Gross	PERMIT REQUIREMENT	****	*******	*****	****	*****	Reg. Mon. ANNI. MAX	T/6tu		Three Per Year	COMPOS
Pesticides, general	SAMPLE MEASUREMENT	****	******	*****	4-5-4 evice	} ***	ON				,
74053 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	A-44.6-4.6-4.	*****	在其中有收入	*****	Reg. Mon. ANNL MAX	mg/L		Four Per Year	COMPOS
Coliform, fecal general	SAMPLE MEASUREMENT	*****	And described to	****	*****	******	8,000				
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	外收价价格次	******	****	****	Red, Mon. ANNL MAX	#/100mL		Three Per Year	GRAB

7	SIGNATURE OF	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Supervision in properties of the what this document and all attachments were prepared under my direction or supervision of the properties of the properti	given as these peaces directly responsible for garbitring the information the information and parties is at the best of the proposition of the pro	
PAL EXECUTIVE OFFICER	Jeffrey Seltzer	TYPED OR PRINTED

08/13/2010 202-53-1603 NUMBER AREA Code IF PRINCIPAL EXECUTIVE OFFICER OR. AUTHORIZED AGENT

DATE

TELEPHONE

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 ANNELMON. IS QRTLY, REPORTED ANNELMON.

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

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

ADDRESS:

DISTRICT DEPARTMENT OF THE ENVIRONMENT NA FACILITY:

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

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

MS2-A DC0000221

DISCHARGE NUMBER

DMR Mailing ZIP CODE: MAJOR

20002

MILITARY ROAD AND BEACH DRIVE External Outfall

No Discharge

MM/DD/YYYY 08/31/2010 MONITORING PERIOD ٥ MM/DD/YYYY PERMIT NUMBER 09/01/2009 FROM

PARAMETER			CUANTILL	TTY OR LOADING) 	QUALITY OR CONCENTRATION	ENTRATION		ŠΩ	FREQUENCY OF ANALYSIS	SAMPLE
			VALUE	VALUE	STIND	VALUE	VALUE	VALUE	UNITS			.,
Metals, total	SAMPLE MEASUREMENT	E MENT	******	******	*****	******	******	0.3/				
78240 1 0 Effluent Gross	PERMIT REQUIREMENT	T AENT	*****	*****	******	********	*****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Volatile compounds, (GC/MS)	SAMPLE MEASUREMENT	E MENT	*****	******	*****	****	*****	2,000,0				
78732 1 0 Effluent Gross	PERMIT REQUIREMENT	JENT	the site of the first site of the	39,445,44	****	W. A. M. Markey Sep.	****	Red, Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Chemical Oxygen Demand (COD)	SAMPLE MEASUREMENT	E MENT	Andrews A. S.	****	ate of the property and	****	*****	215				
81017 1 0 Effluent Gross	PERMIT REQUIREMENT	IT MENT	***	*****	****	*****	****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

AMME/ITITLE PRINCIPAL EXECUTIVE OFFICER Supervision is econolated with a system designed to assure that qualified personnel property gainer and articular to the region of supervision in econolation assuring that qualified personnel property gainer and region of the property ga
NAME/ITILE PRINCIPAL EXECUTIVE OFFICER Jeffey Se/f2e Typed or printed

102-535-1603 NUMBER TELEPHONE AREA Code PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

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 GRTLY, REPORTED ANNELMON. IS GRTLY, REPORTED ANNELMON. IS GRTLY, REPORTED ANNELMON.

ELIMINATION SYSTEM (NPDES) NATIONAL POLLUTANT DISCHAL

DISCHARGE MONITURING REPORT (DMR)

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

The Government of the District of Columbia-DDOE ADDRESS: NAME:

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

DISTRICT DEPARTMENT OF THE ENVIRONMENT NA FACILITY:

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

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

DISCHARGE NUMBER MS3-A DC0000221 PERMIT NUMBER

DMR Mailing ZIP CODE:

20002

External Outfall

No Discharge

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

SOAPSTONE CRK CONNETICUT AVE MAJOR

PARAMETER		QUANTITY O	TITY OR LOADING		ð	QUALITY OR CONCENTRATION	ENTRATION		ŠΩ	FREQUENCY OF ANALYSIS	SAMPLE
	-	VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	***	******	***	*******	******	2.85				
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	***	Аканей	*****	Reg. Mon. ANNL MAX	deg F	٠	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
Hd	SAMPLE MEASUREMENT	n de marie de se	****	*****	2.0	***	7.9				
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	******	Req. Mon. MINIMUM	*****	Req. Mon. ANNL MAX	ns		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	T. 40.4-7-4-4	****	*****	****	***	39				
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	****	*****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Oil & grease	SAMPLE MEASUREMENT	******	****	******	******	******	4.9				
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	Article Articl	መ ውግ መ መግ	****	****	****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Nitrogen, total (as N)	SAMPLE MEASUREMENT	******	*****	****	***	No. of the Association in	97	=			
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	444,004	****	*****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Nitrogen, organic total (as N)	SAMPLE MEASUREMENT	*****	****	******	*****	*****	NR				
00605 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	4-2-4-9-9-4	****	*****	*****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

NAME/ITLE PRINCIPAL EXECUTIVE OFFICER partity under penalty of tay that this continent and all attendences were prepare supervision in accordance with a system designed to accordance that qualified personn coloring the prepare prepare to the prepare	system, or those persons directly responsible for gathering the information, the information, the information the information to the best of my knowledge and belief, true, accurate, and complete, I am aware to permittee for submitting takes information, including the possibility of fine and impartness.		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	Jethey Seltzer	/ TYPED OR PRINTED	

SIGNAT that there are significant sprisonment for knowing

00 202-535=1603 NUMBER TELEPHONE AREA Code PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

MMADDAYYY

DATE

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

Page 1

ELIMINATION SYSTEM (NPDES) NATIONAL POLLUTANT DISCHA'

DISCHARGE MONITONING REPORT (DMR)

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

The Government of the District of Columbia-DDOE ADDRESS: NAME:

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

DISTRICT DEPARTMENT OF THE ENVIRONMENT NA FACILITY:

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

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

DISCHARGE NUMBER MS3-A DC0000221 PERMIT NUMBER

20002 DMR Mailing ZIP CODE:

> YYYYY DOWN 08/31/2010 MONITORING PERIOD 5 MM/DD/YYYY 09/01/2009 FROM

No Discharge SOAPSTONE CRK CONNETICUT AVE External Outfall MAJOR

PARAMETER		QUANTITY C	IITY OR LOADING		Ö	QUALITY OR CONCENTRATION	ENTRATION		NO.	FREQUENCY OF ANALYSIS	SAMPLE
		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	7/6ш	ė.	Three Per Year	COMPOS
Nitrogen, Kjeldahi, total (as N)	SAMPLE MEASUREMENT	***	*****	1	****	****	2.8				
00625 1 0 Effluent Gross	PERMIT REQUIREMENT	****	*****	*****	*****	******	Req. Mon. ANNL MAX	тдуг		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		****	1	*****	****	4.0				
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	****	****	******	*****	****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Phosphorus, dissolved	SAMPLE MEASUREMENT	****	****	*****	******	******	6.37				
00666 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	******	****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Cyanide, total (as CN)	SAMPLE MEASUREMENT	****	*****	*****	***	******	\$20.0				
00720 1 0 Effluent Gross	PERMIT REQUIREMENT	45.64.44	*******	*****	****	*****	Reg. 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

I settly inder penalty of law the bis document and all attachments were pre- appearized in accordance with a system designed to assure that qualified personal properties the information other pre-	system, or those persons directly responsible for gathering the information, in the best of my knowledge and belief, true, securate, and complete. I am awe permittee for submitting false information, theirwising the possibility of fine and polyments.	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER 1 perity index possible of the tast tast comment were prepared to the tast tast comment were prepared to the tast tast tast tast tast tast tast tas	Jethory Seltzer	/ TYPED OR PRINTED

TELEPHONE	202-535-1603	NUMBER
TEI	202	AREA Code
	m ming	SIGNATORE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
direction or jather and	c the bruitted is. significant	

MM/DD/YYYY

DATE

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.

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

ELIMINATION SYSTEM (NPDES) NATIONAL POLLUTANT DISCHAI

DISCHARGE MONITURING REPORT (DMR)

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

The Government of the District of Columbia-DDOE ADDRESS: NAME:

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

DISTRICT DEPARTMENT OF THE ENVIRONMENT NA 51 N. STREET, N.E., 5TH FLOOR WASHINGTON, DC 20001 FACILITY:

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

LOCATION:

MS3-A PERMIT NUMBER DC0000221

DISCHARGE NUMBER

MM/DD/YYYY 08/31/2010

MM/DD/YYYY

2

09/01/2009

FROM

MONITORING PERIOD

DMR Mailing ZIP CODE:

20002

MAJOR

SOAPSTONE CRK CONNETICUT AVE External Outfall No Discharge

	_										
PARAMETER		QUANTITY O	TITY OR LOADING		סו	QUALITY OR CONCENTRATION	ENTRATION		Ğ Z	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			- 1
Fecal streptococci, MF m-enterococcus ag	SAMPLE MEASUREMENT	*****	***	******	******	***	180,000				
31679-1 0 Effluent Gross	PERMIT REQUIREMENT	****	The second of	*****	****	*****	Req. Mon. ANNL MAX	#/100mL		Three Per Year	GRAB
Base/neufral compounds	SAMPLE MEASUREMENT	*****	* Anna Maria	*****	*****	***	NO				
32015 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	****	***	****	*****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Acid compounds	SAMPLE MEASUREMENT	金河即北北縣	******	*****	A STATE OF S	*****	QN/				
32020 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	k in a constant	******	********	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1016	SAMPLE MEASUREMENT	******	*****	***	******	******	an				
34671 1 0 Effluent Gross	PERMIT REQUIREMENT	****	*******	Acris de Serie de	· · · · · · · · · · · · · · · · · · ·	******	Reg. Mon. ANNIL MAX	mg/L		Three Per Year	COMPOS
PCB-1221	SAMPLE MEASUREMENT	*****	*****	*****	****	******	an				
39488 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	Marketon Mar	*****	******	****	Reg. Mon. ANNL MAX	mg/L	-	Three Per Year	COMPOS
PCB-1232	SAMPLE MEASUREMENT	*****	to the state of th	***	· · · · · · · · · · · · · · · · · · ·	*****	an				
39492 1 0 Effluent Gross	PERMIT REQUIREMENT	with the same of t	· · · · · · · · · · · · · · · · · · ·	Andrew of the second	******	*****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1242 bot. dep., dry solid	SAMPLE MEASUREMENT	*****	*******	******	*******	7.24×44	an				
39499 1 0 Effluent Gross	PERMIT REQUIREMENT	****	****	along his de along.	******	****	Red, Mon. ANNL MAX	T/6w		Three Per Year	COMPOS

R supervision in accordance with	system, or those persons direct to the best of my knowledge as penalties for submitting false is colorions	
NAME/111 LE PRINCIPAL EXECUTIVE OFFICER	Je Arey Seltzer	AYPED OR PRINTED

501/-52	NUMBER	
707	AREA Code	
Jan Ser	MATURE OF PRINGIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	

ММИВБЛУУУ

13/13/

DATE

TELEPHONE

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.

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

ELIMINATION SYSTEM (NPDES) DISCHARGE MONITOWING REPORT (DMR) NATIONAL POLLUTANT DISCHA!

PERMITTEE NAME/ADDRESS (Include Facility Name/Lacation if Different)

The Government of the District of Columbia-DDOE ADDRESS: NAME:

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

DISTRICT DEPARTMENT OF THE ENVIRONMENT NA FACILITY:

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

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

MS3-A DC0000221 PERMIT NUMBER

DISCHARGE NUMBER MONITORING PERIOD

MM/DD/YYYY 08/31/2010

MM/DD/YYYY

٥

09/01/2009

FROM

20002 DMR Mailing ZIP CODE:

MAJOR

SOAPSTONE CRK CONNETICUT AVE External Outfall No Discharge

PARAMETER		QUANT	QUANTITY OR LOADING		ð	QUALITY OR CONCENTRATION	ENTRATION		ŠΆ	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	AALUE	UNITS	VALUE	VALUE	VALUE	STINO			
PCB-1248	SAMPLE MEASUREMENT	*****	****	**	*****	***	ON				
39500 1 0 Effluent Gross	PERMIT REQUIREMENT	不是有意识	***	***	**	*****	Red. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1254	SAMPLE MEASUREMENT	*********	S. S. A. N. S. B.	******	*****	*****	σN				
39504 1 0 Effluent Gross	PERMIT REQUIREMENT	Section by the first	***	****	****	******	Red. Mon. ANNL MAX	T/Bu		Three Per Year	COMPOS
PCB-1260	SAMPLE MEASUREMENT	****	****	***	***	a social de la compansión de la compansi	an				
39508 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	******	****	***	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Phenois	SAMPLE MEASUREMENT	*****	******	*****	*****	*****	0.042		•		,
46000 1 0 Effluent Gross	PERMIT REQUIREMENT	thethere	*****	******	***	***	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Solids, total dissolved (TDS)	SAMPLE MEASUREMENT	******	*****	******	******	A. W. S. Alleysia	096				
70296 1 0 Effluent Gross	PERMIT REQUIREMENT	<u> </u>	*****	****	********	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Pesticides, general	SAMPLE MEASUREMENT	*****	******	Annual of the St.	· · · · · · · · · · · · · · · · · · ·	***/	an				
74053 1 0 Effluent Gross	PERMIT REQUIREMENT	化热电池水平	****	****	我我们的人们的	****	Reg. Mon. ANNL MAX	тg/L		Three Per Year	COMPOS
Coliform, fecal general	SAMPLE MEASUREMENT	*******	******	*****	****	******	90,000			,	,
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	****	****	*******	***	*****	Red Mon. ANNL MAX	#/100mL		Three Per Year	COMPOS

TELEPHONE	202-535-1603	AREA Code NUMBER	
	and	SIGNATÜRE OF PRINOMÄL EXECUTIVE OFFICER OR AUTHORIZED AGENT	
seriify under penalty of law that this document and all attachments were prepared under my direction or pentiston in accordance with a system designed to assure that qualified personnel properly gather and	e chainte the information sutomitted. Based on my inquiry of the person or passons who manings the electric three persons directly responsible for gathering the information, the information schematical is in the best of my knowledge and behalf, true, securate, and complete, I am aware that there are significant	description are throughout the committee prescripting of the sam infraedrength to the way.	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	1200	TYPED OR PRINTED	

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, 1S ORTLY, REPORTED ANNLY.

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

Page 4

06/13/2010

DATE

MM/DD/YYYY

ELIMINATION SYSTEM (NPDES) DISCHARGE MONITUMING REPORT (DMR) NATIONAL POLLUTANT DISCHAF

PERMITTEE NAME/ADDRESS (Include Facility Name/Lacation if Different)

The Government of the District of Columbia-DDOE ADDRESS: NAME:

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

DISTRICT DEPARTMENT OF THE ENVIRONMENT NA 51 N. STREET, N.E., 5TH FLOOR WASHINGTON, DC 20001 LOCATION: FACILITY:

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

DISCHARGE NUMBER MS3-A PERMIT NUMBER DC0000221

MM/DD/YYYY 08/31/2010

MM/DD/YYYY

բ

09/01/2009

FROM

MONITORING PERIOD

DMR Mailing ZIP CODE: MAJOR

20002

SOAPSTONE CRK CONNETICUT AVE External Outfall No Discharge

PARAMETER		QUANTITY	TITY OR LOADING		10	QUALITY OR CONCENTRATION	ENTRATION	-	ŠΩ	FREQUENCY OF ANALYSIS	SAMPLE
		VALUE	ALUE	STINO	VALUE	VALUE	VALUE	UNITS			
Metals, total	SAMPLE MEASUREMENT	******	*****	******	***	*****	0.120				
78240 1 0 Effluent Gross	PERMIT REQUIREMENT	******	****	*****	****	*****	Reg. Mon. ANNL MAX	. mg/L		Three Per Year	GRAB
Volatile compounds, (GC/MS)	SAMPLE MEASUREMENT	,,,,,,,,	*****	*****	*****	*****	NO				
78732 1 0 Effluent Gross	PERMIT REQUIREMENT	T	*****	*****	*****	****	Req. Mon. ANNI, MAX	mg/L		Three Per Year	GRAB
Chemical Oxygen Demand (COD)	SAMPLE MEASUREMENT		***	*****	*****	*****	120				
81017 1.0 Effluent Gross	PERMIT REQUIREMENT	T	******	******	*****	***	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

AME/TITLE PRINCIPAL EXECUTIVE OFFICER	lectury mater penalty of law that this document and all attachments we also revision in a scondance with a system designed to assure that quality collaborate the information submitted Based on my invarience of the revision.
Hey Seltzer	system, or those persons directly responsible for galdaring the information that best of my knowledge and belief, true, accumite, and complete, performers for submitting false information, including the possibility of solutions.
/ TYPED OR PRINTED	

2025357603 NUMBER AREA Code TURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

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 ORTLY, REPORTED ANNLY.

COMPOSITE

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

Page 5

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the Following

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

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

The Government of the District of Columbia-DDOE ADDRESS: NAME

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

FACILITY:

LOCATION:

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

PERMIT NUMBER DC0000221

DISCHARGE NUMBER MS4-A

DMR Mailing ZIP CODE:

20002

MAJOR

SAMPLE

COMPOS

GRAB

GRAB

COMPOS

No Discharge MELVIN HAZEN VALLEY BRANCH FREQUENCY OF ANALYSIS Three Per Year External Outfall SLIND deg F mg/L mg/L mg/L 믕 Red Mon. ANNL MAX Reg. Mon. ANNL MAX Reg. Mon. ANNL MAX Reg. Mon. ANNL MAX Req. Mon. ANNL MAX VALUE QUALITY OR CONCENTRATION 4.0 6/0 00 2 رب س VALUE ***** **** ***** ***** MM/DD/YYYY 12/31/2010 0/0 Req. Mon. MINIMUM VALUE ***** **** ***** MONITORING PERIOD ဥ UNITS **** **** ***** ***** **** ***** MINI/DD/YYYY 01/01/2010 QUANTITY OR LOADING VALUE *** ***** ***** **** *** FROM VALUE ***** **** ***** ***** DISTRICT DEPARTMENT OF THE ENVIRONMENT? SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT PERMIT REQUIREMENT PERMIT REQUIREMENT PERMIT REQUIREMENT PERMIT REQUIREMENT 51 N. STREET, N.E., 5TH FLOOR WASHINGTON, DC 20001 emperature, water deg. fahrenheit PARAMETER Solids, total suspended BOD, 5-day, 20 deg. C

00011 1 0 Effluent Gross

00310 1 0 Effluent Gross

00400 1 0 Effluent Gross

00530 1 0 Effluent Gross

Oil & grease

-(SIGNATURE OF I	
] certify under penalty of law that this documents and all attachments were prepared under my direction of impervisors in accordance with a system designed to assert that qualified personnel imperity guidner and impervisors or showing a system designer and the comment of the product or presence the	years, or those provided that the state of t	
NAME/ITLE PRINCIPAL EXECUTIVE OFFICER	To they Seltzen (TYPED)	The state of the s

2025554603 NUMBER AREA Code PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

08/13/2010

DATE

TELEPHONE

MM/DD/YYYY

COMPOS

Three Per Year

₩g/L

Reg. Mon. ANNL MAX

XX

SAMPLE MEASUREMENT

Nitrogen, organic total (as N)

00605 1 0 Effluent Gross

00600 1 0 Effluent Gross

PERMIT REQUIREMENT

COMPOS

Three Per Year

ďζ.

Reg. Mon. ANNL MAX

16.00

SAMPLE MEASUREMENT

Nitrogen, total (as N)

00556 1 0 · Effluent Gross

PERMIT REQUIREMENT

GRAB

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

EPA Form 3320-1 (Rev.01/05) Previous editions may be used.

Page 1

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

DERMITTEE NAME/ADDRESS (Include Facility Name/ cation if Different)

The Government of the District of Columbia-DDOE

ADDRESS:

FACILITY:

LOCATION:

MS4-A

DMR Mailing ZIP CODE:

SAMPLE TYPE

COMPOS

COMPOS

COMPOS

COMPOS

COMPOS

COMPOS

COMPOS

Three Per Year

mg/L

Reg. Mon. ANNE MAX

26

WATCHER

SAMPLE MEASUREMENT

Hardness, total (as CaCO3)

00900 1 0 Effluent Gross

PERMIT REQUIREMENT

DATE

No Discharge 20002 MELVIN HAZEN VALLEY BRANCH FREQUENCY OF ANALYSIS Three Per Year Three Per Year Three Per Year Thiree Per Year Three Per Three Per Year ᅙ External Outfall SLIND mg/L mg/L mg/L ∏g/L mg/L mg/L MAJOR Reg. Mon. ANNL MAX Reg. Mon. ANNL MAX 0.14 Req. Mon. ANNL MAX Req. Mon. ANNL MAX Req. Mon. ANNL MAX Req. Mon. ANNL MAX VALUE QUALITY OR CONCENTRATION 50 タグ \$ VALUE ***** **** ***** **** **** DISCHARGE NUMBER MIM/DD/YYYY 12/31/2010 VALUE ***** ****** **** AND KAN ***** **** ***** **** ***** MONITORING PERIOD ဥ UNITS **** ***** ***** ***** **** **** **** * Į. MM/DD/YYYY PERMIT NUMBER 01/01/2010 QUANTITY OR LOADING DC0000221 VALUE ***** ***** ***** **** ***** ***** ***** **** **** FROM VALUE **** ***** **** ***** DISTRICT DEPARTMENT OF THE ENVIRONMENT! SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT PERMIT REQUIREMENT PERMIT REQUIREMENT PERMIT REQUIREMENT PERMIT REQUIREMENT PERMIT REQUIREMENT 51 N. STREET, N.E., 5TH FLOOR WASHINGTON, DC: 20001 441 4TH STREET, N.W. WASHINGTON, DC 20001 ATTN: julia evans, P.E./Senior Envir Vitrite plus nitrate total 1 det. (as N) Nitrogen, ammonia total (as N) Nitrogen, Kjeldahl, total (as N) PARAMETER Phosphorus, total (as P) Phosphorus, dissolved Syanide, total (as CN) 00610 1 0 Effluent Gross 00625 1 0 Effluent Gross 00665 1 0 Effluent Gross 00666 1 0 Effluent Gross 00630 1 0 Effluent Gross 00720 1 0 Effluent Gross

	NS (Reference all attachments here)	COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
AUTHORIZ		/TYPED OR PRINTED
Æ	to the best of my knowledge and belief, true, acourate, and complete I am aware that there are significant penathes for submitting false information, including the possibility of fine and impresonment for knowing specialistics.	Jettrey Seltzer
1/201	system, or those persons directly responsible for gathering the information, the information submitted is.	
(NAME/ITLE PRINCIPAL EXECUTIVE OFFICER TEXT years Pacific and defend to an installation for the grapher more fit y and control of the control	NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
		The state of the s

NUMBER 202-256 TELEPHONE AREA Code AL EXECUTIVE OFFICER OR IZED AGENT 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

for the following 2200 (> Fig. Servelle Transle Try De Wild

Danameter.

Page 2

ELIMINATION SYSTEM (NPDES) NATIONAL POLLUTANT DISCHAF

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/location if Different)

The Government of the District of Columbia-DDOE NAME

ADDRESS:

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

DISTRICT DEPARTMENT OF THE ENVIRONMENT ! FACILITY:

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

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

MONITORING PERIOD PERMIT NUMBER DC0000221

DISCHARGE NUMBER MS4-A

MM/DD/YYYY 12/31/2010

MM/DD/YYYY

բ

01/01/2010

FROM

20002 DMR Mailing ZIP CODE:

MAJOR

External Outfall

No Discharge

MELVIN HAZEN VALLEY BRANCH

PARAMETER		QUANTITY	ITY OR LOADING		∩ซ	QUALITY OR CONCENTRATION	CENTRATION		ŠX.	FREQUENCY OF ANALYSIS	SAMPLE
		VALUE	VALUE	· STINO	VALUE	VALUE	VALUE	UNITS	-		
Fecal streptococci, MF m-enferococcus ag	SAMPLE MEASUREMENT	******	35.45.45.75 4.45.45.75	****	******	*****	160,000				
31679 1 0 Effluent Gross	PERMIT REQUIREMENT	To the state of th	****	克雷克斯夫	Walter Wife	*****	Req. Mon. ANNL MAX	#/100mL		Three Per Year	GRAB
Base/neutral compounds	SAMPLE MEASUREMENT	****	*****	state of color at the	*****	anna sa a	510.0		ļ	•	
32015 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	****		******	****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
ds	SAMPLE MEASUREMENT	No. of the Contract of	Article of the State of	****	****	*****	NO				
32020 1 0 Effluent Gross	PERMIT REQUIREMENT	******	*****	nen menen	******	******	Reg. Mon. ANNL MAX	mg/L	<u> </u>	Three Per Year	COMPOS
PCB-1016	SAMPLE MEASUREMENT	Xeelerx	***	*****	*****	******	NO	,	<u></u>		
34671 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	** ***	Variety of the state of the sta	中女士都接牙	****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
	SAMPLE MEASUREMENT	- Proposition of the	***	Al de Allanda de Al	****	Water to the	NO		<u> </u>		
39488 1 0 Effluent Gross	PERMIT REQUIREMENT	****	National Series	*****	a-ingena.	****	Reg. Mon. ANNL MAX	T/6m		Three Per Year	COMPOS
PCB-1232	SAMPLE MEASUREMENT	PRNES	****	alman receive six also	*****	***	an				
39492 1 0 Effluent Gross	PERMIT REQUIREMENT	******	*****	a announce.	****	*****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1242 bot. dep., dry solid	SAMPLE MEASUREMENT	Manager	****	*****	******	***********	an				
39499 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	e s alvian	***************************************	****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

	The state of the s
	AYPED OR PRINTED
penalties for submitting false information, including the possibility of fine and imprisonment for knowledges.	Jettrey Jellzer
System, or those persons droubly responsible for gathering the information, the information attention to the formation attention of the formation attention to the formation attention of the formation attention of the formation attention of the formation of the	
centry parameter printing on the maintain decembers and an entertainment printing of the transfer of the support of the control appropriate the control of t	NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

A	NUMBER	AREA Code	SIGNA PER OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	9
B	102-535-1603	202-5		led is, ufficant noveme
	TELEPHONE	TEL		tone or

MMODNYYYY

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

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

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

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

PERMITTEE NAME/ADDRESS (include Facility Name/Location if Different)

The Government of the District of Columbia-DDOE

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

DISTRICT DEPARTMENT OF THE ENVIRONMENT? FACILITY:

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

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

PERMIT NUMBER DC0000221

DISCHARGE NUMBER MS4-A

MM/DD/YYYY 12/31/2010

MM/DD/YYYY

բ

01/01/2010

FROM

MONITORING PERIOD

DMR Mailing ZIP CODE:

20002

MAJOR

MELVIN HAZEN VALLEY BRANCH External Outfall

No Discharge

PARAMETER		QUANTITY	ITY OR LOADING		סו	QUALITY OR CONCENTRATION	SENTRATION	24	ŠX Eg	FREQUENCY OF ANALYSIS	SAMPLE
	:	VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		******	
PCB-1248	SAMPLE MEASUREMENT	No. of Control of Cont	*****	******		p d briche	ON		ļ		
39500 1 0 Effluent Gross	PERMIT REQUIREMENT	and which is in	· · · · · · · · · · · · · · · · · · ·	******	******	A THE STATE OF THE	Reg Mon ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1254	SAMPLE MEASUREMENT	****	***		******	****	NO				
39504 1 0 Effluent Gross	PERMIT REQUIREMENT	in the state of th	**************************************	******	******	******	Reg. Mon. ANNL MAX	T/6w	<u> </u>	Three Per Year	COMPOS
PCB-1260	SAMPLE MEASUREMENT	And the second second	***	***	*****	******	QΝ				
39508 1 0 Effluent Gross	PERMIT REQUIREMENT	****	*****	***	******	京文献等方案	Reg. Mon. ANNL MAX	mg/L	<u> </u>	Three Per Year	COMPOS
Phenols	SAMPLE MEASUREMENT	*****	*****	N. eftendere (n. s.)	******	******	0.12				
46000 1 0 Effluent Gross	PERMIT REQUIREMENT	· · · · · · · · · · · · · · · · · · ·	****	****	***	***	Red. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Solids, total dissolved (TDS)	SAMPLE MEASUREMENT	**********	****	****	*****	guintaine g	490				
70296 1 0 Effluent Gross	PERMIT REQUIREMENT	ALEXANDER PROPERTY.	ች ያለት ፡፡ የራ ት	44644	*******	******	Req. Mon. ANNL MAX	mg/L	<u> </u>	Three Per Year	COMPOS
Pesticides, general	SAMPLE MEASUREMENT	*****	****	JS JR. JR. Berling	****	de Marie de de	ON				
74053 1 0 Effluent Gross	PERMIT REQUIREMENT	********	*****	********	*****	**************************************	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Coliform, fecal general	SAMPLE MEASUREMENT	****	3-4-7	***	ACTION ACTION	******	30,000				
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	******	*****	a manage a	*****	****	Reg. Mon. ANNL MAX	#/100mL	•	Three Per Year	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	lecrity under penalty of law that this document and all attachments were prepared under my direction or supervison in anomine with a system designed to assure that qualified personnel properly gather and money that the contract of the con		TELEPHONE	DATE
Jetter, Settzer	-q-man of the nonneavon administration for they indepent the properties of the nonneavon and the nonneavon administration to the properties of the proper	1) mile	202 535-166	102 535-1603 08/13/2010
TYPED OR PRINTED	Polations	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code NUMBER	MM/DD/YYYY
COMMENTS AND EXPLANATION OF ANY VIOLATION'S (Reference all attachments by	NS (Reference all affachments here)			

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

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

Page 4

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

The Government of the District of Columbia-DDOE NAME:

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

DISTRICT DEPARTMENT OF THE ENVIRONMENT! FACILITY:

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

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

MS4-A PERMIT NUMBER DC0000221

DISCHARGE NUMBER

MM/DD/YYYY 12/31/2010

MM/DD/YYYY

2

01/01/2010

FROM

MONITORING PERIOD

DMR Mailing ZIP CODE: MAJOR

20002

MELVIN HAZEN VALLEY BRANCH

External Outfall

No Discharge

PARAMETER		1	QUANT	QUANTITY OR LOADING		์ ช	QUALITY OR CONCENTRATION	ENTRATION		ŠΩ	FREQUENCY OF ANALYSIS	SAMPLE
			VALUE	VALUE	SLINN	VALUE	ALUE	VALUE	UNITS			•
Metals, total	SAMPLE MEASUREMENT	RAENT	*********	******	*****	*****	***	0.39				
78240 1 0 Effluent Gross	PERMIT REQUIREMENT	FENT	****	*****	****	****	******	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Volatile compounds, (GC/MS)	SAMPLE MEASUREMENT	E AENT	*****	*****	A Proposition	*****	disposition of	0.006				
78732 1 0 Effluent Gross	PERMIT REQUIREMENT	ENT	*****	A THE STREET	a servence of	*****	******	Reg. Mon. ANNL MAX	T/Sw		Three Per Year	GRAB
Chemical Oxygen Demand (COD)	SAMPLE MEASUREMENT	E AENT	****	*****	******	*****	*****	250				
81017 1 0 Effluent Gross	PERMIT REQUIREMENT	r IENT	****	******	****	· · · · · · · · · · · · · · · · · · ·	*****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

	80	¥ :
TELEPHONE	307-525-70Z	NUMBER
TE	202	AREA Code
((Mosey	SIGNATIME OF PRINCIPAL EXECUTIVE OFFICER OF
bëtdy under penaliy of law that this document and all attuchments were prepared under my direction oc pervision to accomance with a system designed to assure that qualified personnel properly gather and	enjayahata du mitomathon skommiet disaset on my inquiry die persone or persons who manage the opposite of the persons directly responsible for galdering the information, the information submitted is, if the best of my townseighe and belief the accurate has one complete. In severe that there are significant blows the set of my townseighe up the lead of the management of the management of the severe the significant blows the second of the severe of the second of the second of the second of the severe the significant than the second of the s	nung tase nuomanon utchaning tre posnouny ot the spe enprisorment of Anover
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	Totto, (eltson	ED OR PRINTED

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

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

MM/DD/YYYY

.8 No. 2040-0004 The Approved

ELIMINATION SYSTEM (NPDES) DISCHARGE MONITOWING REPORT (DMR) NATIONAL POLLUTANT DISCHAL

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

The Government of the District of Columbia-DDOE ADDRESS:

LOCATION: FACILITY:

DISCHARGE NUMBER MS5-A DC0000221

KLINGLE VALLEY CREEK MAJOR

20002

DMR Mailing ZIP CODE:

No Discharge External Outfall MM/DD/YYYY 08/31/2010 MONITORING PERIOD 5 MM/DD/YYYY PERMIT NUMBER 09/01/2009 FROM DISTRICT DEPARTMENT OF THE ENVIRONMENT NA 51 N. STREET, N.E., 5TH FLOOR WASHINGTON, DC 20001 441 4TH STREET, N.W. WASHINGTON, DC 20001 ATTN: julia evans, P.E./Senior Envir

PARAMETER		QUANT	QUANTITY OR LOADING		סו	QUALITY OR CONCENTRATION	ENTRATION		Š.X.	FREQUENCY OF ANALYSIS	SAMPLE
		VALUE	VALUE	STINO	VALUE	VALUE	VALUE	SLINO		•	
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	****	****	*****	*****	****	59.2				
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	****	******	Req. Mon. ANNL. MAX	⊒ Beβ		Three Per Year	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	*****	***	***	***	*****	23				
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	水生物生物	***	4.4.4.4.4	****	*****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Hd	SAMPLE MEASUREMENT	***	****	****	2.77	****	8.45				
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	*****	727727	Req. Mon. MINIMUM	*****	Red. Mon. ANNL MAX	ПS		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	******	*****	******	******	43				
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	****	A- 1- 4- 4- 4- 4- 4- 4- 4- 4- 4- 4- 4- 4- 4-	shires.	*****	****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Oil & grease	SAMPLE MEASUREMENT	*****	an should be	*****	*****	*****	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	*****	******	*****	*****	****	12%	•			
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	******	*****	Anadriae	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Nitrogen, organic total (as N)	SAMPLE MEASUREMENT	***	*****	******	*****	*****	NR				
00605 1 0 Effluent Gross	PERMIT REQUIREMENT	******	****	*****	****	****	Reg. Mon. ANNL MAX	, T/6w		Three Per Year	COMPOS

NAME/ITILE PRINCIPAL EXECUTIVE OFFICER Industry to independ to the observation and industriants maker prepared industry of the person of persons where prepared industry of the person of persons where the industriant industrial ind			V,	
NAMETITILE PRINCIPAL EXECUTIVE OFFICER FFFF Seffer (TYPED OR PRINTED)	I contrive under permitty of law that this document and all attachments were prepared under my direction of Supervision in accordance with a system designed to assure that qualified descentual property gather and subject to the information substituted. Eastell on my transport of the contrast of supervision of the contrast	. The second control of the information of the second control of the information alonged is objected by the information submitted is, to the best of in knowledge and belief, the second complete I am swar when the information is significant.	penutius for submitting fulse information, uncluding the possibility of fine and imprisonment for knowing violations.	
	NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	The Cottes	VC11764 SC11261	/ TYPED OR PRINTED

202-535-1603 NUMBER AREA Code SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

DATE

TELEPHONE

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.

ELIMINATION SYSTEM (NPDES) DISCHARGE MONITCOMING REPORT (DMR) NATIONAL POLLUTANT DISCHAF

PERMITTEE NAME/ADDRESS (include Facility Name/Location if Different)

The Government of the District of Columbia-DDOE ADDRESS: NAME

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

DISTRICT DEPARTMENT OF THE ENVIRONMENT NA FACILITY:

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

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

MS5-A DC0000221

DISCHARGE NUMBER

DMR Mailing ZIP CODE:

20002

KLINGLE VALLEY CREEK

No Discharge

External Outfall MAJOR MM/DD/YYYY 08/31/2010 MONITORING PERIOD ဥ MM/DD/YYYY PERMIT NUMBER 09/01/2009 FROM

	=-											
PARAMETER			QUANTITY O	ITY OR LOADING	·	Ö	QUALITY OR CONCENTRATION	ENTRATION		δÄ	FREQUENCY OF ANALYSIS	SAMPLE TYPE
			VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	ENT	****	****	******	******	*****	NR				
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	ENT	在在本本本本	****	*****	*****	******	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Nitrogen, Kjeldahl, total (as N)	SAMPLE MEASUREMENT	ENT IENT	***	****	*****	******	****	42				
00625 1 0 Effluent Gross	PERMIT REQUIREMENT	ENT	****	****	**********	State of the state	******	Req. Mon. ANNI. MAX	mg/L		Three Per Year	COMPOS
Nitrite plus nitrate total 1 def. (as N)	SAMPLE MEASUREMENT	ENT		*****	TO PLANT SEAR AN	*****	*****	×.×				
00630 1 0 Effluent Gross	PERMIT REQUIREMENT	ENT	******	*****	*****	******	*****	Reg. Mon. ANNE MAX	mg/L		Three Per Year	COMPOS
Phosphorus, total (as P)	SAMPLE MEASUREMENT	E	***	****	*****	*******	*******	98.0				
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	ENT	****	*****	white	*******	*****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Phosphorus, dissolved	SAMPLE MEASUREMENT	ENT	***************************************	*****	******	*******	****	18.0				
00666 1 0 Effluent Gross	PERMIT REQUIREMENT	ENT	***	****	*****	****	*****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Cyanide, total (as CN)	SAMPLE MEASUREMENT	ENT	****	*****	*****	*****	***	an	·			
00720 1 0 Effluent Gross	PERMIT REQUIREMENT	ENT	***	****	*****	*****	****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Hardness, total (as CaCO3)	SAMPLE MEASUREMENT	E IENT	*****	*****	*****	******	*****	00/		·		
00900 1 0 Effluent Gross	PERMIT REQUIREMENT	ENT	******	*****	****	*****	中华中华 中	Reg. Mon. ANNL MAX	mg/Ł		Three Per Year	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	NAME/ITILE PRINCIPAL EXECUTIVE OFFICER 10 option unaccondance with a system cleasigned to assure that qualified pressumed trosperty gasters and	(TELEPHONE	무	DATE
To Han Seltzer	explaint the information stabilities, before one up injury of the previous or previous with thinking the is system, or those persons directly responsible for gathering the information, the information statistical to the best of in Narrobidge and belief, true, accurate and complete, in an aware that there are against not beginning the information, the formation in the property of	Sulfe	202-535	7603	0102/21/80 508/13/2010
/TYPED OR PRINTED	violutions.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code NUMBER	MBER	MM/DD/YYYY
COMMENTATION OF THE PROPERTY O					

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
ROCK CREEK WATERSHED 19TH PLACE, NE MONITGRING LOCATJONNAME CHANGED TO KLINGLE VALLEY CREEK (DEVONSHIRE PLACE AND 30TH STREET). MON, IS QRTLY, REPORTED ANNLY.

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

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Page 2

ELIMINATION SYSTEM (NPDES) DISCHARGE MONITOWING REPORT (DMR) NATIONAL POLLUTANT DISCHA!

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

The Government of the District of Columbia-DDOE ADDRESS: NAME

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

DISTRICT DEPARTMENT OF THE ENVIRONMENT NA 51 N. STREET, N.E., 5TH FLOOR WASHINGTON, DC 20001 LOCATION: FACILITY:

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

FROM

MS5-A PERMIT NUMBER DC0000221

DISCHARGE NUMBER MM/DD/YYYY 08/31/2010 MONITORING PERIOD բ MM/DD/YYYY 09/01/2009

20002 DMR Mailing ZIP CODE:

MAJOR

KLINGLE VALLEY CREEK External Outfall

No Discharge

PARAMETER		QUANTITY	TTY OR LOADING		<u> </u>	QUALITY OR CONCENTRATION	SENTRATION		ŠΩ	FREQUENCY OF ANALYSIS	SAMPLE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			·
Fecal streptococci, MF m-enterococcus ag	SAMPLE MEASUREMENT	- Annaugus	*****	*****	*	***	160,000				
31679 1 0 Effluent Gross	PERMIT REQUIREMENT	* No. of all all all all all all all all all al	*****	****	*****	*******	Reg. Mon. ANNL MAX	#/100m£		Three Per Year	GRAB
Base/neutral compounds	SAMPLE MEASUREMENT	*****	*****	1	***		0.037				
32015 1 0 Effluent Gross	PERMIT REQUIREMENT	******	*****	****	*****	Req. Mon. AVERAGE	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Acid compounds	SAMPLE MEASUREMENT	****	****	***	*****	*******	NO				
32020 1 0 Effluent Gross	PERMIT REQUIREMENT	******	*****	*******		*****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1016	SAMPLE MEASUREMENT	*****	*****	*****	*****		on				
34671 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	****	********	*****	Reg. Mon. AVERAGE	Reg. Mon. ANNL MAX	mg//L		Three Per Year	COMPOS
PCB-1221	SAMPLE MEASUREMENT	****	***	4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	*****	*****	an				
39488 1 0 Effluent Gross	PERMIT REQUIREMENT	******	****	*****	talhan	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1232	SAMPLE MEASUREMENT	******	******	*****	waterwards	****	ON				
39492 1 0 Effluent Gross	PERMIT REQUIREMENT	Abstrati	464.00.00	*****	水水牛水水水	古世史章相长	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1242 bot, dep., dry solid	SAMPLE MEASUREMENT	*****	******	*****	*****	*****	Øν		-		
39499 1 0 Effluent Gross	PERMIT REQUIREMENT	******	4-4-4-4-4	******	Attition	中华水中北京	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

	1 Miss	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR	AUTHORIZED AGENT	
SUTIVE OFFICER supersisting under persuity of law that this document and all attuchments were prepared under my direction or supervision in decordance with a system testigmed to assure that qualified personned property gather and	systems to insulation administration on my implicit or agreement of persons with manage use system, or those persons administration because of the systems of the information administration is, system, or those persons directly responsible for gathering the information, the information the information administration is, system, or described the information of the informati	pepalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	`	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER 1881	1 the 12 1	は	TYPED OR PRINTED	

COMMENTS AND EXPLANATION OF ANY VIOLATION'S (Reference all attachments here)
ROCK CREEK WATERSHED 19TH PLACE, NE MONITORING LOCATIONNAME CHANGED TO KLINGLE VALLEY CREEK (DEVONSHIRE PLACE AND 30TH STREET). MON. IS ORTLY, REPORTED ANNLY.

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

MM/DD/YYYY

NUMBER

AREA Code

2091-555-20

TELEPHONE

ELIMINATION SYSTEM (NPDES) DISCHARGE MONITCHING REPORT (DMR) NATIONAL POLLUTANT DISCHA!

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

The Government of the District of Columbia-DDOE ADDRESS: NAME:

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

DISTRICT DEPARTMENT OF THE ENVIRONMENT NA 51 N. STREET, N.E., 5TH FLOOR WASHINGTON, DC 20001 LOCATION: FACILITY:

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

DISCHARGE NUMBER MS5-A PERMIT NUMBER DC0000221

MM/DD/YYYY

MM/DD/YYYY

FROM

MONITORING PERIOD

MAJOR

20002

DMR Mailing ZIP CODE:

KLINGLE VALLEY CREEK External Outfall No Discharge

SAMPLE TYPE COMPOS COMPOS COMPOS GRAB FREQUENCY OF ANALYSIS Three Per Year Three Per Year Three Per Year Three Per Year 증없 UNITS mg/L mg/L mg/L mg/L Req. Mon. ANNL MAX Req. Mon. ANNL MAX Req. Mon. ANNL MAX Req. Mon. ANNL MAX 350 VALUE QUALITY OR CONCENTRATION 2 Ş 0.0 S VALUE **** ***** **** ***** ***** ***** 08/31/2010 VALUE ***** ***** *** **** ***** **** ဥ UNITS **** ***** ***** **** ***** ***** ***** **** 09/01/2009 QUANTITY OR LOADING VALUE **** ***** **** **** VALUE ***** **** **** **** SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT PERMIT REQUIREMENT PERMIT REQUIREMENT PERMIT REQUIREMENT Solids, total dissolved (TDS) **PARAMETER** 46000 1 0 Effluent Gross 39500 1 0 Effluent Gross 39508 1 0 Effluent Gross 39504 1 0 Effluent Gross ²CB-1254 PCB-1248 PCB-1260 Phenois

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	1.51 a. `		TELEP	TELEPHONE	DATE	
To the Coltrar	where the properties of the properties of the properties of the properties of properties where the properties of the properties of properties of the propert	G.M. M.		202-535-1608	08/13/2010	
TYPED OR PRINTED	Volkibons.	SIGNÁTURE OF PRINCIPÁL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY	
AL DE ANTONIO EN PART AND TANK TO MANAGE AND ANTONIO PROPERTY OF THE ANTONIO PROPERTY OF THE P	100 (10 miles)	-				

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 ORTLY, REPORTED ANNLY. Focal

Ş Sampline was used

Following

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

Page 4

colitorm

oursure ter.

COMPOS

Three Per Year

#/100mL

Req. Mon. ANNL MAX

160,000

*

***** ****

SAMPLE MEASUREMENT

Coliform, fecal general

74055 1 0 Effluent Gross

74053 1 0 Effluent Gross

PERMIT REQUIREMENT

COMPOS

Three Per Year

mg/L

Req. Mon. ANNL MAX

COMPOS

Three Per Year

mg/L

Req. Mon. ANNL MAX

50

SAMPLE MEASUREMENT

Pesticides, general

70296 1 0 Effluent Gross

PERMIT REQUIREMENT

PERMIT REQUIREMENT

ELIMINATION SYSTEM (NPDES) DISCHARGE MONITCHING REPORT (DMR) NATIONAL POLLUTANT DISCHA'

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

The Government of the District of Columbia-DDOE ADDRESS: NAME

441-4TH STREET, N.W. WASHINGTON, DC 20001

DISTRICT DEPARTMENT OF THE ENVIRONMENT NA 51 N. STREET, N.E., 5TH FLOOR WASHINGTON, DC 20001 LOCATION: FACILITY:

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

FROM

MS5-A PERMIT NUMBER DC0000221

DISCHARGE NUMBER MM/DD/YYYY 08/31/2010 MONITORING PERIOD ဥ MM/DD/YYYY 09/01/2009

20002 DMR Mailing ZIP CODE:

MAJOR

KLINGLE VALLEY CREEK External Outfall No Discharge

PARAMETER		QUANTITY	TITY OR LOADING		ŏ	QUALITY OR CONCENTRATION	ENTRATION		δÄ	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Metals, total	SAMPLE	*****	*******	***	*****	*****	0.42				,
78240 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	****	*****	***	*****	Reg. Mon. ANNL MAX	mg/L	-	Three Per Year	GRAB
Volatile compounds, (GC/MS)	SAMPLE MEASUREMENT	*****	*****	***	***	****	NO				
78732 1 0 Effluent Gross	PERMIT REQUIREMENT	****	****	***	****	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Chemical Oxygen Demand (COD)	SAMPLE MEASUREMENT	******	*****	***	***	****	201				
81017 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	*****	******	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

	Mr. Marie	ORE OF PRINCIPAL EXECUTIVE OFFICER OF	
UTIVE OFFICER I dentify under pozality of law that this document and all attachments were prepared under my direction or supervision in accordance within a post of state designed that the contract of the co	containment information in demanders, according to an information and an information and information and sixty of the pass of	Dathors for sulformitting false information, including the possibility of fine and imprisonment for knowing SIGNA Justions.	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	A The Charles	TYPED OR PRINTED	

MON. IS ORTLY, REPORTED ANNLY. 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).

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

Composite sound

MM/DD/YYYY

NUMBER

AREA Code

202-535-1603

TELEPHONE

ELIMINATION SYSTEM (NPDES) NATIONAL POLLUTANT DISCHA

DISCHARGE MONITORING REPORT (DMR)

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

The Government of the District of Columbia-DDOE NAME:

ADDRESS:

DISTRICT DEPARTMENT OF THE ENVIRONMENT I FACILITY:

LOCATION:

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

MS6-A DC0000221

DISCHARGE NUMBER **MM/DD/YYYY** MONITORING PERIOD

DMR Mailing ZIP CODE:

20002

No Discharge

NORMANSTONE CREEK External Outfall MAJOR 12/31/2010 ဥ MIN/DD/YYYY PERMIT NUMBER 01/01/2010 FROM 51 N. STREET, N.E., 5TH FLOOR WASHINGTON, DC 20001 441 4TH STREET, N.W. WASHINGTON, DC 20001

PARAMETER		QUANTITY	ITY OR LOADING		6	QUALITY OR CONCENTRATION	ENTRATION		ĕ.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	STINO	VALUE	VALUE	VALUE	UNITS			
Temperature, water deg. fahrenheit	SAMPLE MEASUREMENT	*****	*****	»masaa	*****	********	7.65	`			
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	米原原水等車	*****	aranto de atuanto de	***	***	Reg. Mon. ANNL MAX	deg F		Three Per Year	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	***	*****	W W THE SECOND	****	*****	0//				
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	Waterier	******	and the second second	****		Reg. Mon. ANNL MAX	твЛ		Three Per Year	COMPOS
Hd	SAMPLE MEASUREMENT	******	张····································	*****	hhic	****	8.02				
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	estimate.	*****	Winnkitz	Req. Mon. MINIMUM	****	Reg. Mon. Annl Max	ns		Three Per Year	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	****		011	,		-	
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	With Walnute.	· · · · · · · · · · · · · · · · · · ·	* 中央市场中央	4-7-4: B.V.4	****	Red. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Oll & grease	SAMPLE MEASUREMENT		****	*****	*****	St. Martine St. St.	3.2				
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	The systems	Andrews .	***	电子电影电子电	Alfrancis a	Reg. Mon. ANNL MAX	T/6w		Three Per Year	GRAB
Nifrogen, total (as N)	SAMPLE MEASUREMENT	No. of straining and straining	***	State division show.	****	***	0'8				
00600 1 0 Effluent Gross	PERMIT REQUIREMENT	State of the	****	*****	*******	della descripio	Reg, Mon. ANNL MAX	7/6w		Three Per Year	COMPOS
Nitrogen, organic total (as N)	SAMPLE MEASUREMENT	****	****	A Table of the	******		8N				
00505 1 0 · · Effluent Gross	PERMIT REQUIREMENT	*******	****	***	and standard	Req. Mon. AVERAGE	Req. Mon. ANNL MAX	т9/L		Three Per Year	COMPOS
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Apparation is accessioned with a special content and apparation of personal property in process. The special content is accessioned for the person of personal property in the personal content is accessed to the personal content in the personal content is accessed to the personal content in the personal content is accessed to the personal content in the personal content is accessed to the personal content in the personal content is accessed to the personal content in the personal c

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 GRTLY, REPORTED ANNLY.

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

The Government of the District of Columbia-DDOE NAME:

441 4TH STREE WASHINGTON, I ADDRESS:

DISTRICT DEPA FACILITY:

LOCATION: 51 N. STREET, N. WASHINGTON, " ATTN: julia evans, P.E./Senior

DC0000221

MS6-A

DMR Mailing ZIP CODE:

20002

No Discharge

STONE CREEK

		_					7
ET, N.W. 1, DC 20001			PERMIT NUMBER	Si	DISCHARGE NUMBER	MAJOR	
PARTMENT OF THE ENVIRONMENT	ENVIRONMENT !		MONITORING PERIOD	RING	PERIOD	NORMANST	-
N.E., 5TH FLOOR DC 20001			MM/DD/YYYY		MM/DD/YYYY	External Outf	ŧ
r Enylis	FR	FROM	01/01/2010	욘	12/31/2010		
		l		,			-

	_								-		
PARAMETER	:	QUANTII	TITY OR LOADING		סו	QUALITY OR CONCENTRATION	ENTRATION		2 2 3	FREQUENCY OF ANALYSIS	SAMPLE
		VALUE	VALUE	STINO	VALUE	AALUE	VALUE	UNITS			
Nitrogen, ammonia total (as N)	SAMPLE MEASUREMENT	******	*****	At the second section of	ALANA MANA	*******	NR				,
00610 1 0 Effluent Gross	PERMIT REQUIREMENT	******	- M. A. A. B. Sh. Tr.	Walnuth	New Section (Section)	计算电影	Reg. Man. ANNL MAX	mg/L	,	Three Per Year	COMPOS
Nitrogen, Kjeldahl, total (as N)	SAMPLE MEASUREMENT	****	*****	*****			6.3	,			
00625 1 0 Effluent Gross	PERMIT REQUIREMENT	******	****	\$1.50 pt. 10.50		***************************************	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Nitrite plus nitrate total 1 det. (as N)	SAMPLE MEASUREMENT	*****	*****	****	****	*****	.3				
00630 1 0 Effluent Gross	PERMIT REQUIREMENT	******	*******	***	******	美术条件	Reg. Mon. ANNL MAX	mg/L		Four Per Year	COMPOS
Phosphorus, total (as P)	SAMPLE MEASUREMENT		****	***	· · · · · · · · · · · · · · · · · · ·	*****	26.0				
00665 1 0 Effluent Gross	PERMIT REQUIREMENT	op. St. Park St. Apr	***	****	· · · · · · · · · · · · · · · · · · ·	****	Req. Mon. ANNE MAX	mg/l∟		Three Per Year	COMPOS
Phosphorus, dissolved	SAMPLE MEASUREMENT	***	AL BANGARAN MA	AND	April April April 2004	gendrage the strategy of	25.0				
00666 1 0 Effluent Gross	PERMIT REQUIREMENT	****	******	******	· · · · · · · · · · · · · · · · · · ·	*****	Req. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Cyanide, total (as CN)	SAMPLE MEASUREMENT	****	Attach de de de destrie	***	******	*****	ON	,			
00720 1 0 Effluent Gross	PERMIT REQUIREMENT	water with	**************************************	******	- PARTICLE -	*****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Hardness, total (as CaCO3)	SAMPLE MEASUREMENT		****	****	光····································	汽车 医甲基基	08/				
00900 1 0 Effluent Gross	PERMIT REQUIREMENT	********	Marketon Mar	and the state of	d spinisteria	***	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

- W	41925	EXE TYPE OF PRINCIPLE EX	AU PHÓRIZED A	
I certify under penalty of law that this document and all attachments were prepared under my direction or appropriate party against a second and a system of the qualified personnel property gather and real based on the control of the present or becomes who menses the control of the present or the present of the present	system, or those persons directly responsely for gallering the information, the information submitted is, to the best of my knowledge and belief, tous, accurate, and complete I am sware that there are significant.	penalties for submitting false information, including the possibility of fine and unprasument for knowing violations.		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		JOHNES COLLEGE	TÄPED OR PRINTED	

NUMBER TELEPHONE AREA Code XECUTIVE OFFICER OR AGENT Page 2

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.

ELIMINATION SYSTEM (NPDES). NATIONAL POLLUTANT DISCHA,

DISCHARGE MONITORING REPORT (DMR)

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

The Government of the District of Columbia-DDOE NAME

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

DISTRICT DEPARTMENT OF THE ENVIRONMENT N FACILITY:

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

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

PERMIT NUMBER DC0000221

DISCHARGE NUMBER

MS6-A

DMR Mailing ZIP CODE:

20002

External Outfall

MM/DD/YYYY 12/31/2010

MM/DD/YYYY

բ

01/01/2010

FROM

MONITORING PERIOD

No Discharge

NORMANSTONE CREEK MAJOR

PARAMETER		QUANTIT	TITY OR LOADING		10	QUALITY OR CONCENTRATION	SENTRATION		Š,Ÿ	FREQUENCY OF ANALYSIS	SAMPLE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			·
Fecal streptococci, MF m-enterococcus ag	SAMPLE MEASUREMENT	*****	4.	*****		***************************************	30,000				
31679 1 0 Effluent Gross	PERMIT REQUIREMENT	****	Artic Walterland	Andrews and	****	****	Req. Mon. ANNL MAX	#/100mL		Three Per Year	GRAB
Base/neutral compounds	SAMPLE MEASUREMENT	*****	*****	***	*****	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	NO		7		
32015 1 0 Effluent Gross	PERMIT REQUIREMENT	**	An and an and an		******	********	Reg. Mon. ANNL MAX	J/gш	 ,-	Three Per Year	COMPOS
Acid compounds	SAMPLE MEASUREMENT	M. N. Spieller M. Spieller St.	in a surprise of	****	******	******	200				
32020 1 0 Effluent Gross	PERMIT REQUIREMENT	***	******	*****	**************************************	*****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1016	SAMPLE MEASUREMENT	APRANA	*****	*****	# Charle	****	97				
sso	PERMIT REQUIREMENT	***		****	*******	10 mm	Reg. Mon. ANNL MAX	тдЛ		Three Per Year	COMPOS
PCB-1221	SAMPLE MEASUREMENT	****	****	- A to to the sky and	*****	*****	dN				
39488 1 0 Effluent Gross	PERMIT REQUIREMENT	***	New State of the S	*****	***	******	Red. Mon. ANNL MAX	T)6m		Three Per Year	COMPOS
PCB-1232	SAMPLE MEASUREMENT	******	****	*****	· A · A · A · A · A · A · A · A · A · A	****	an				,
39492 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	weekte	*****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1242 bot, dep., dry solid	SAMPLE MEASUREMENT	******	*****	*****	*****	****	ON				
39499 1 0 Effluent Gross	PERMIT REQUIREMENT	A production of	*****	**	described to	and the state of t	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

ER seruty under penalty of law that this supervision in accordance with a systemation colonical personal programme and penalty of the information colonical penalty of the	ivition of those persons directly response to the less of my knowledge and beling purallyes for submitting false informational violations.	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	Jeffrey Seltzer	AYPED OR PRINTED

and and a state of the property of the presence of the control is possible for gathering the midmandican the indicates the activation and compilete. I am active that there are significant lation, the latifient for possibility of fine and impressment for known lation, the latifient fire possibility of fine and impressment for known.

TELEPHONE AREA Code SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

100/5/ MM/DD/YYYY

DATE

1603

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

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

EPA Form 3326-1 (Rev.01/06) Previous editions may be used.

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

PERMITTEE NAME/ADDRESS (include Facility Name/Location if Different)

The Government of the District of Columbia-DDOE NAME

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

DISTRICT DEPARTMENT OF THE ENVIRONMENT!

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

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

MS6-A PERMIT NUMBER DC0000221

DISCHARGE NUMBER MONITORING PERIOD

WM/DD/YYYY 12/31/2010

MM/DD/YYYY

ဥ

01/01/2010

FROM

DMR Mailing ZIP CODE:

NORMANSTONE CREEK External Outfall No Discharge

20002 MAJOR

PARAMETER		QUANTIT	FITY OR LOADING		וט	QUALITY OR CONCENTRATION	SENTRATION		ŠÄ	FREQUENCY OF ANALYSIS	SAMPLE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	·		
PCB-1248	SAMPLE MEASUREMENT	*****	*****	***	**************************************	*****	No				
39500 1 0 Effluent Gross	PERMIT REQUIREMENT	******	ALM MORNING	*****	The desire is the second	******	Red Mon. ANNI, MAX	T/6w	<u> </u>	Three Per Year	COMPOS
PCB-1254	SAMPLE MEASUREMENT	****	*****	*****	and desired to	*****	ND				
39504 1 0 Effluent Gross	PERMIT REQUIREMENT	********	是水水水水	,	A STATE OF THE STA	Andrew &	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
PCB-1260	SAMPLE MEASUREMENT	***	*****	*****	******	***	N				
39508 1 0 Effluent Gross	PERMIT REQUIREMENT	****	****	****	· · · · · · · · · · · · · · · · · · ·	中央 计设计算	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Phenois	SAMPLE MEASUREMENT	******	*hdeax	*****	****	建 原设施设施 章	5,40,0				
46000 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	计可读字符	No. of the same	· · · · · · · · · · · · · · · · · · ·	And the state of t	Reg. Mon. ANNI, MAX	∏⁄gш		Three Per Year	GRAB
Solids, total dissolved (TDS)	SAMPLE MEASUREMENT	建物质物物物物	****	Waterforth	*****	计学验证书章	460				
70296 1 0 Effluent Gross	PERMIT REQUIREMENT	******	*ANALY**		A to wind the set	· · · · · · · · · · · · · · · · · · ·	Reg. Mon. ANNL MAX	πg/L		Three Per . Year	COMPOS
Pesticides, general	SAMPLE MEASUREMENT		****	*****	建水水	The Annaholism of	NO				
74053 1 0 Effluent Gross	PERMIT REQUIREMENT	Market Science	********	******	*****	Anterior Mark	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS
Coliform, fecal general	SAMPLE MEASUREMENT	ALEXA DE DE SE	in a superior	*****	******	******	2005				
74055 1 0 Effluent Gross	PERMIT REQUIREMENT	Assings	***	2-7-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-	***	****	Reg. Mon. ANNL MAX	#/100mL		Three Per Year	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	NAME/ITILE PRINCIPAL EXECUTIVE OFFICER Supervision in accordance with a system designed to assure that qualified personnel property gather and		TELEPHONE	ONE	DATE	
Tother Coltron	— speaking feat antiformation attending these on my industry of the person or preases who memper the system, or these persons density responsible for gallering the information, the information submitted is, by the back of my knowledge and belief thus, construct and consider a land member of the pack in the construction of construction and construction and construction and construction and construction of the person o	SmSa-		2-1603	0102/8/180 809/- 555-200	
TYPED OR PRINTED	* Totalious Santa	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code NUMBER	NUMBER	MM/DD/YYYY	
COMMERCED A 110 TOTAL AND TOTAL OF SALVING OF A SALVING OF A						

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 ORTLY, REPORTED ANNLY.

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Page 4

ELIMINATION SYSTEM (NPDES) NATIONAL POLLUTANT DISCHA,

DISCHARGE MONITORING REPORT (DMR)

ONE No. 2040-0004

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

The Government of the District of Columbia-DDOE NAME:

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

DISTRICT DEPARTMENT OF THE ENVIRONMENT I FACILITY:

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

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

MS6-A PERMIT NUMBER DC0000221

DISCHARGE NUMBER

DMR Mailing ZIP CODE: MAJOR

20002

External Outfall

MM/DD/YYYY 12/31/2010

MM/DD/YYYY

ဝ

01/01/2010

FROM

MONITORING PERIOD

No Discharge

NORMANSTONE CREEK

						,						
PARAMETER			QUANTIT	TITY OR LOADING		ð	QUALITY OR CONCENTRATION	SENTRATION		N N	FREQUENCY OF ANALYSIS	SAMPLE
			VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		,	
Metals, total	SAMPLE MEASUREMENT	MENT	***	******		****	****	45.0				
78240 1 0 Effluent Gross	PERMIT REQUIREMENT	T MENT	****	*******	****	****	中中中北京	Reg. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Volatile compounds, (GC/MS)	SAMPLE MEASUREMENT	MENT	and and a	****	****	****	***	NO				
78732 1 0 Efflueht Gross	PERMIT REQUIREMENT	AENT	****	*****	***	*****	****	Reg. Mon. ANNL MAX	mg/L		Three Per Year	GRAB
Chemical Oxygen Demand (COD)	SAMPLE MEASUREMENT	JE MENT	Property and the second	****	*****	10人为有量量	****	051	10			
81017 1 0 Effluent Gross	PERMIT REQUIREMENT	T AENT	*****	****	****	*******	建大学等等等	Reg. Mon. ANNL MAX	mg/L		Three Per Year	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	streetly most penalty of law that this cockingent and all adjoinments were prepared upder my direction or supervision in accordance with a system designed to assure that qualified personnel property gather and	-	TELE	ELEPHONE	DATE
12 C 14	— everluit for unformation submitted Based on my upuny of the passon or presens who manage the system, or those parsons directly responsible for gathering the information, the information submitted is, to the best of my know ledge and belief, in the, eccutate, and complete. I am aware that there are significant.	Ch ms	2025	35-1608	102535-1608 08113/201
ノンドニットベジニンへ	penalties for submitting false mformation, including the possibility of fine and imprisonment for knowing	SIGNATURE OF BDINCIPAL EYECUTIVE OFFICED OF		1	1
AYPED OR PRINTED		AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY
The report of the property of the party of t		, , , , , , , , , , , , , , , , , , ,			

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 ORTLY, REPORTED ANNLY.

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APPENDIX C ROCK CREEK WATERSHED SAMPLING ANALYTICAL DATA

ROCK CREEK WATERSHED WET WEATHER SAMPLING RAW DATA

			Walte	er Reed (Ft. Ste	vens)	Milita	ry Rd. and Bea	ch Dr.		Soapstone			Melvin Hazen			Klingle Valley	,		Normanstone	•
Parameter	Units	RL	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	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
1,2-Dichloropropane 1,2-Diphenylhydrazine	ug/L ug/L	5.1	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
1,2-Diprierryinydrazine 1,2-Trans-Dichloroethylene (trans-1,2-Dichloroethane)	ug/L ug/L	1.0	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 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	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	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	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	ND	ND	ND	ND
2-Chlorophenol	ug/L ug/L	5.1 5.1	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
2-Nitrophenol 3,3´-Dichlorobenzidine	ug/L ug/L	5.1	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	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 ug/L	5.1	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 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 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	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	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 0.0055	ND	ND	ND	ND	ND	ND	ND	ND 0.0074	ND	ND	ND
Antimony (DOD 1010)	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 ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Aroclor 1221 (PCB 1221) Aroclor 1232 (PCB 1232)	ug/L ug/L	1.1	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Aroclor 1242 (PCB 1242)	ug/L ug/L	1.1	ND ND	ND ND	ND	ND ND	ND	ND ND	ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND	ND	ND ND	ND ND	ND
Aroclor 1242 (FCB 1242) 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	ND ND	ND	ND ND	ND ND	ND ND	ND	ND
Aroclor 1240 (FCB 1254)	ug/L	1.1	ND	ND ND	ND	ND ND	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 5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether Bis(2-Ethylhexyl)phthalate	ug/L	5.1	ND	ND	ND	ND 5.0	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND	ND ND	ND ND	ND ND	ND
BOD	ug/L mg/L	3.0	5.7 12	32 14	ND 17	5.9 4.0	30	ND 24	11	9.4	17	26	33	ND 22	ND 22	31 11	ND 23	ND 6.1	ND 4.1	ND 110
Bromodichloromethane	ug/L	1.0	ND	ND	ND	ND	ND	ND	ND	9.4 ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND
Bromoform	ug/L ug/L	1.0	ND ND	ND ND	ND	ND	ND	ND	ND ND	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	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	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 4.1	ND	ND	ND	ND	ND	ND	ND 4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
		0.50			7.1	ND	3.3	2.0	ND	4.9		ND	ND	2.5	2.0	8.2	ND		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

		<u> </u>	Walt	er Reed (Ft. Ste	vens)	Militar	y Rd. and Bea	ch Dr.		Soapstone			Melvin Hazen		1	Klingle Valley			Normanstone	
Parameter	Units	RL	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 delta-BHC	mg/L	0.010 0.053	ND ND	ND ND	ND ND	ND ND	0.047 ND	ND ND	ND ND	0.025 ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Dibenz[a,h]anthracene	ug/L ug/L	5.1	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	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	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	ND	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	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Endosulfan II (Beta-endosulfan) Endosulfan Sulfate	ug/L ug/L	0.32	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 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	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 70	ND	ND	ND 100	ND	ND 100	ND	ND	ND 400	ND	ND	ND	ND	ND	ND 100	ND	ND 04	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 0.053	ND ND	ND	ND ND	ND ND	ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND	ND
Heptachlor epoxide Hexachlorobenzene	ug/L ug/L	5.1	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	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 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	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 Naphthalene	ug/L ug/L	1.0 5.1	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Nickel	mg/L	0.010	ND ND	0.013	0.014	ND ND	0.023	0.11	ND ND	ND ND	ND	ND ND	0.015	0.017	ND 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 p.p'-DDE	ug/L	0.32 0.11	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
p,p'-DDE p,p'-DDT	ug/L ug/L	0.11	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	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 ug/L	5.1	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 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	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 Selenium	ug/L	5.1 0.010	ND ND	ND ND	ND ND	ND ND	ND 0.067	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Silver	mg/L mg/L	0.010	ND ND	ND ND	ND ND	ND ND	0.067 ND	ND ND	ND ND	ND ND	ND ND	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 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 47	ND	ND	ND	ND	ND 04	ND	ND	ND	ND 50	ND	ND 04	ND 40	ND	ND 40	ND	ND	ND 05
Total Suspended Solids	mg/L	10	47 ND	20	32 ND	37 ND	2600	21	39 ND	10 ND	25 ND	52 ND	92	24	18 ND	20 ND	43	21	110	95 ND
Toxaphene Triphloroathylono	ug/L	3.2	ND	ND	ND	ND ND	ND	ND ND	ND ND	ND	ND	ND ND	ND	ND ND	ND ND	ND ND	ND	ND ND	ND	ND ND
Trichloroethylene Vinyl chloride	ug/L ug/L	1.0	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	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 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
∠III∪	IIIg/∟	0.020	0.000	0.024	U.U/ I	U.IU	טאו	0.004	0.000	0.017	0.000	0.044	U.Z3	U.Z I	0.072	0.030	U.UO3	0.037	0.10	U.11

RL - reporting limit

n/a - not available ND - none detected

ROCK CREEK SUBWATERSHED DRY WEATHER SAMPLING RAW DATA

Parameter	Unito	DI.	Water Reed (F	t. Stevens)	Military Rd. and	d Beach Dr.	Soap	ostone	Melvin	Hazen	Klingl	e Valley	Norma	anstone
Parameter	Units	RL	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 1,1-Dichloroethane	ug/L ug/L	1.0	ND ND	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	ND ND
1,2,4-Trichlorobenzene	ug/L	11	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
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	ND ND	ND ND	ND	ND ND
1,3-Dichlorobenzene 1,4-Dichlorobenzene	ug/L ug/L	1.0	ND ND	ND ND		ND ND	ND ND	ND ND		ND ND	ND ND	ND ND	ND ND	ND ND
2,3,7,8-TCDD	pg/I	0.36	ND	ND ND		ND 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	ND
2,6-Dinitrotoluene 2-Chloroethyl Vinyl Ether	ug/L ug/L	1.0	ND ND	ND ND		ND ND	ND ND	ND ND	+	ND ND	ND ND	ND ND	ND ND	ND ND
2-Chloronaphthalene	ug/L ug/L	1.0	ND ND	ND ND		ND ND	ND ND	ND ND	+	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 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	1	ND ND	ND	ND ND	ND	ND
4-Chloro-3-methylphenol	ug/L	21 11	ND ND	ND ND		ND ND	ND ND	ND ND		ND ND	ND ND	ND ND	ND ND	ND ND
4-Chlorophenyl-phenylether 4-Nitrophenol	ug/L ug/L	53	ND ND	ND ND		ND ND	ND ND	ND ND		ND ND	ND ND	ND ND	ND ND	ND ND
Acenaphthene	ug/L	11	ND	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	ND	ND	ND ND
alpha-BHC	ug/L	0.054	ND ND	ND ND		ND ND	ND ND	ND ND		ND ND	ND ND	ND ND	ND ND	ND ND
Anthracene Antimony	ug/L mg/L	0.010	ND ND	ND ND		ND ND	ND ND	ND ND		0.013	ND ND	ND ND	ND 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
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) Arsenic	ug/L mg/L	1.1 0.0050	ND ND	ND ND		ND ND	ND ND	ND ND		ND ND	ND 0.0059	ND ND	ND ND	ND ND
Benzene	ug/L	1.0	ND	ND ND		ND ND	ND ND	ND ND		ND	0.0039 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	1	ND ND	ND	ND ND	ND ND	ND
Benzo[k]fluoranthene Beryllium	ug/L mg/L	11 0.0010	ND ND	ND ND		ND ND	ND ND	ND ND	+	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	+	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		ND	3.9	ND	1	6.6	ND	13 ND	ND	ND
Bromodichloromethane Bromoform	ug/L	1.0	ND ND	ND ND		ND ND	1.7 ND	ND ND	1	1.3 ND	ND ND	ND ND	ND ND	ND ND
Bromorethane (Methyl bromide)	ug/L ug/L	1.0	ND ND	ND ND		ND ND	ND ND	ND ND	+	ND ND	ND ND	ND ND	ND ND	ND ND
Butylbenzylphthalate	ug/L	11	ND	ND ND		ND ND	ND ND	ND 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	1	3.0	ND	ND ND	ND	ND
Chlorophyll a	ug/L	1.0 0.50	ND ND	ND 2.5		ND 3.1	ND ND	ND ND	1	ND 3.2	ND 12	ND ND	ND ND	ND ND
Chlorophyll a Chromium	ug/L mg/L	0.50	ND ND	2.5 ND		3.1 ND	0.0012	ND ND	+	3.2 ND	ND	ND ND	ND ND	ND ND
Chrysene	ug/L	11	ND ND	ND ND		ND ND	0.0012 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
5.5 .,5 Diomoropropyrono	ug/ L	H1.0	140	110		ייי	ישוי	יאט		110	אוי	יאט	ייי	

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.	So	apstone	Melvin Ha	zen	Klingle	Valley	Norm	anstone
. a. ameter	Jima		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	ND ND	ND	ND ND	ND
Dibenz[a,h]anthracene	ug/L	11	ND	ND	ND ND	ND	ND		ND	ND ND	ND	ND	ND
Dibromochloromethane (Chlorodibromomethane) Dieldrin	ug/L ug/L	1.0 0.11	ND ND	ND ND	ND ND	ND ND	ND ND	-	ND ND	ND ND	ND ND	ND ND	ND ND
	ug/L ug/L	11	ND ND	ND ND	ND ND	ND ND	ND ND		ND ND	ND ND	ND ND	ND ND	ND ND
Direthylphthalate Dimethylphthalate	ug/L ug/L	11	ND ND	ND ND	ND	ND ND	ND ND		ND ND	ND ND	ND ND	ND ND	ND ND
Di-n-butylphthalate	ug/L ug/L	11	ND	ND ND	ND	ND	ND ND		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	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		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	ND
Endosulfan Sulfate	ug/L	0.33	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
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 CaCO₃/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	ND
Nitrogen, Total	mg/L	0.10	2.1	1.5	ND 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 NB		ND	ND	ND	ND ND	ND
N-Nitroso-di-n-propylamine	ug/L	11	ND 2.6	ND ND	ND ND	ND 5.0	ND ND		ND ND	ND ND	ND ND	ND ND	ND ND
Oil & Grease	mg/L	5.0				5.3			ND				
p,p'-DDD p,p'-DDE	ug/L	0.33	ND ND	ND ND	ND ND	ND ND	ND ND		ND ND	ND ND	ND ND	ND ND	ND ND
p,p'-DDT	ug/L ug/L	0.11 0.33	ND ND	ND ND	ND	ND ND	ND ND		ND ND	ND ND	ND ND	ND ND	ND ND
Pentachlorophenol	ug/L ug/L	53	ND ND	ND ND	ND	ND ND	ND ND		ND ND	ND ND	ND ND	ND ND	ND ND
Phenanthrene	ug/L	11	ND ND	ND ND	ND	ND	ND ND		ND ND	ND ND	ND ND	ND ND	ND ND
Phenol	ug/L	11	ND 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	0.013	0.011	0.011	0.14	0.011		ND	0.029	0.023	0.054	ND 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 ND
Silver	mg/L	0.0040	ND	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		4.0	ND	ND	4.0	36	ND		160	ND	5.6	ND	ND
Toxaphene		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.degis.de.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:

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

Walt	ter Reed
Land Use	Area (Acres)
ALLEYS	0.30
С	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 Runo	ff Coefficient: 0.81

Milita	ary Road
Land Use	Area (Acres
R	24.47
RIVER	0.00
ROADS	0.51
Total Area	24.98
Weighted Runot	ff Coefficient: 0.36

Soa	pstone
Land Use	Area (Acres
ALLEYS	9.60
С	4.93
FP	6.68
HDR	15.33
LDR	104.51
LMDR	28.45
LP	14.07
MDR	5.97
MEDIAN	0.29
0	2.71
R	21.37
RIVER	0.00
ROADS	49.86
S	12.51
TROW	44.25
	0.02
Total Area	320.54
Weighted Runor	ff Coefficient: 0.69

Moly	rin Hazen
Land Use	Area (Acres
ALLEYS	3.83
С	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 Runof	f Coefficient: 0.70

Klingle Valley	
Land Use	Area (Acres
ALLEYS	0.53
С	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	

Normanstone	
Land Use	Area (Acres
С	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	