

QUARTERLY OPERATIONS REPORT

DISTRICT OF COLUMBIA

COMBINED SEWER OVERFLOW FACILITIES

THIRD QUARTER, 2013

Prepared By:

D.C. Water and Sewer Authority
Department of Sewer Services
Sewer Pumping Division
2nd & N Streets, SE
Washington, D.C. 20003



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

**Monthly Operations Report
For
Combined Sewer System
Month: July 2013**

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DISTRICT OF COLUMBIA
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Washington, D.C.

Monthly Operations Report for Combined Sewer System
Month: July 2013

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1. INTRODUCTION

The District of Columbia Water and Sewer Authority (DC Water) operates a wastewater collection system comprised of separate and combined sewers. Separate storm and sanitary sewers serve parts of the District. In the combined sewer system (CSS), there is a single sewer to convey storm water and sanitary wastes. The area served by combined sewers comprises about one-third of the District.

During dry weather, sanitary wastes collected in the CSS are conveyed to the DC Water's wastewater treatment plant at Blue Plains (BPWWTP or the Blue Plains WWTP). During periods of rainfall, the capacity of a combined sewer may be exceeded and the excess flow, which is a mixture of storm water and sanitary wastes, is discharged directly to the Anacostia River, Rock Creek or the Potomac River or their tributary waters. This report summarizes the operations of the operations of the combined sewer system for the month indicated.

2. OPERATION AND MAINTENANCE

2.1 Regulators

Regulators divert combined sewage to interceptors, which convey flow to BPWWTP for treatment. When flows exceed the capacities of the systems such as during significant rain events, regulators divert excess flow to CSO outfalls which discharge to receiving waters. The following table summarizes inspections of CSO regulators in the collection system.

**Table 2-1
Regulator Structures**

| Structure Number | Location | Associated NPDES Outfall | Date Inspected | Condition | | Work Needed | Work performed |
|------------------|--|--------------------------|----------------|-----------|------------|-------------|---------------------------------------|
| | | | | Good | Needs Work | | |
| 2 | Bolling AFB, 2250 ft. north of the south line of the Base, SW | 003 | 07/29/13 | * | | | |
| 4 | Bolling AFB, 2250 ft. north of the south line of the Base, SW | 003 | 07/29/13 | * | | | |
| 5 | Poplar Point Pumping Station | 004 | 07/11/13 | * | | | |
| 6 | Chicago Street and Railroad Ave, SE | 005 | 07/15/13 | * | | | |
| 7 | W Street and Railroad Ave, SE | 005 | 07/15/13 | * | | | |
| 8 | Good Hope Rd, west of Nichols Ave, SE | 006 | 07/31/13 | * | | | |
| 9 | 13 th Street and Ridge Place, SE | 007 | 07/15/13 | * | | | |
| 11 | "O" Street Pumping Station | 011(a) | 07/31/13 | * | | | |
| 12 | Storm Pump Discharge at Main Pumping Station | 011 | 07/31/13 | * | | | |
| 13 | 2 nd Street, 300 ft. north of N Place, SE | 009 | 07/29/13 | * | | | |
| 14 | 2 nd Street, 250 ft. north of N Place, SE | 011(a) | 07/31/13 | * | | | |
| 15 | South Capitol and E Streets | 010 | 07/31/13 | * | | | |
| 15a | Half and L Streets, SE | 010 | 07/31/13 | * | | | |
| 15b | South Capitol and I Streets | 010 | 07/24/13 | * | | | |
| 15c | South Capitol and I Streets | 010 | 07/24/13 | * | | | |
| 16 | North of Main Sewage Pumping Station | 012 | 07/31/13 | * | | | |
| 17 | 4 th and N Streets, SE, Both Extended | 013 | N/A | | | | Construction for Clean Rivers Project |
| 17a | K Street between 6 th Street and 7 th Street, SE | 013 | 07/29/13 | * | | | |
| 18 | 6 th and M Streets, SE | 014 | 07/29/13 | * | | | |
| 19 | 9 th and M Streets, SE | 015 | N/A | | | | Construction for Clean Rivers Project |
| 19a | 9 th and M Streets, SE | 015 | N/A | | | | Construction for Clean Rivers Project |
| 20 | 12 th and M Streets, SE | 016 | 07/23/13 | * | | | |
| 20a | 12 th and M Streets, SE | 016 | 07/23/13 | * | | | |
| 21 | 14 th and M Streets, SE | 017 | 07/31/13 | * | | | |
| 22a | Barney Circle and Pennsylvania Ave, SE | 018 | 07/16/13 | * | | | |
| 22b | Barney Circle and Pennsylvania Ave, SE | 018 | 07/16/13 | * | | | |
| 22c | Barney Circle and Pennsylvania Ave, SE | 018 | 07/16/13 | * | | | |

| Structure Number | Location | Associated NPDES Outfall | Date Inspected | Condition | | Work Needed | Work performed |
|------------------|--|--------------------------|----------------|-----------|------------|-------------|----------------|
| | | | | Good | Needs Work | | |
| 22d | Kentucky Ave and Potomac Street, SE | 018 | 07/16/13 | * | | | |
| 22e | 14 th Street and Kentucky Ave, SE | 018 | 07/16/13 | * | | | |
| 23 | Independence Ave, 21 st Street, SE, Extended | 019 | 07/23/13 | * | | | |
| 24a | East Capitol St, west of RFK stadium | 019 | 07/23/13 | * | | | |
| 28 | 21 st and Constitution Ave, NW | 020 | 07/23/13 | * | | | |
| 29 | 22 nd Street, between Constitution Ave and C St, NW | 020 | 07/16/13 | * | | | |
| 30 | 17 th and D Streets, NW | 020 | 07/16/13 | * | | | |
| 31 | 15 th Street and Pennsylvania Ave, NW | 020 | 07/12/13 | * | | | |
| 33 | 10 th and F Streets, NW | 020 | 07/12/13 | * | | | |
| 34 | 23 rd Street, north of Constitution Ave, NW | 020 | 07/31/13 | * | | | |
| 34a | 23 rd Street near C Street, NW | 020 | 07/16/13 | * | | | |
| 35 | Northeast of Roosevelt Bridge, NW | 021 | 07/31/13 | * | | | |
| 36 | 27 th and I Streets, NW | 022 | 07/16/13 | * | | | |
| 36a | New Hampshire Ave and Eye Street, NW | 022 | 07/16/13 | * | | | |
| 36b | 19 th and L Streets, NW | 022, 034 | 07/12/13 | * | | | |
| 36d | 17 th and L Streets, NW | 022, 034 | 07/12/13 | * | | | |
| 36g | 18 th and M Streets, NW | 022, 034 | 07/12/13 | * | | | |
| 36h | 18 th and M Streets, NW | 022, 034 | 07/12/13 | * | | | |
| 37 | 27 th and Eye Streets, NW | 022 | 07/16/13 | * | | | |
| 38 | 29 th and K Streets, NW | 024 | 07/02/13 | * | | | |
| 38a | 30 th Street, south of K Street, NW | 024 | 07/02/13 | * | | | |
| 39a | 30 th and K Streets, NW | 024 | 07/02/13 | * | | | |
| 39b | 30 th and K Streets, NW | 024 | 07/02/13 | * | | | |
| 41b | 31 st and K Streets, NW | 025 | 07/02/13 | * | | | |
| 41c | 31 st and K Streets, NW | 025 | 07/02/13 | * | | | |
| 42 | Wisconsin Ave and K Street, NW | 026 | 07/16/13 | * | | | |
| 43 | Potomac and Water Streets, NW | 027 | 07/16/13 | * | | | |
| 43a | Potomac and Water Streets, NW | 027 | 07/16/13 | * | | | |
| 44 | Water Street, west of Potomac St, NW | 027 | 07/16/13 | * | | | |
| 45 | 36 th and M Streets, NW | 028 | 07/23/13 | * | | | |
| 46 | Canal Rd, 1000ft. east of Foxhall Rd, NW | 029 | 07/29/13 | * | | | |
| 47 | 38 th Street and Reservoir Road, NW | 029 | 07/29/13 | * | | | |

| Structure Number | Location | Associated NPDES Outfall | Date Inspected | Condition | | Work Needed | Work performed |
|------------------|--|--------------------------|----------------|-----------|------------|-------------|----------------|
| | | | | Good | Needs Work | | |
| 47a | 37 th and T Streets, NW | 029 | 07/29/13 | * | | | |
| 47b | 37 th and T Streets, NW | 029 | 07/29/13 | * | | | |
| 47c | 38 th and W Streets, NW | 029 | 07/29/13 | * | | | |
| 49 ^l | Pennsylvania Ave, east side of Rock Creek, NW | 031 | N/A | | | | |
| 50 | 26 and M Streets, NW | 032 | 07/16/13 | * | | | |
| 51 | N Street Extended, west of 25 th Street, NW | 033 | 07/16/13 | * | | | |
| 52 | 22 nd Street between M and N Streets, NW | 034 | 07/31/13 | * | | | |
| 52a | N Street between 22 nd and 23 rd Streets, NW | 034 | 07/31/13 | * | | | |
| 53 | 22 nd and M Streets, NW | 022, 034 | 07/31/13 | * | | | |
| 53a | 22 nd and M Streets, NW | 022, 034 | 07/31/13 | * | | | |
| 53b | L Street between 21 st Street and New Hampshire Ave, NW | 022, 034 | 07/12/13 | * | | | |
| 53c | L and 22 nd Streets, NW | 022 | 07/12/13 | * | | | |
| 54 | 23 rd and O Streets, NW | 034 | 07/29/13 | * | | | |
| 55 | 22 nd Street, south of Q Street, NW | 035 | 07/09/13 | * | | | |
| 55a | 22 nd Street, south of Q Street, NW | 035 | 07/29/13 | * | | | |
| 56 | 23 rd and Massachusetts Ave, NW | 036 | 07/29/13 | * | | | |
| 57 | 23 rd Street, south of Q Street, NW | 036 | 07/29/13 | * | | | |
| 58 ^l | Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW | 037 | N/A | | | | |
| 59 | North of Belmont Rd, east of Kalorama Cir, NW | 038 | 07/15/13 | * | | | |
| 60 | Connecticut Ave, east of Rock Creek, NW | 039 | 07/15/13 | * | | | |
| 61 | Biltmore St, Extended, east of Rock Creek, NW | 040 | 07/15/13 | * | | | |
| 62 | Ontario Rd, Extended, and Rock Creek Pkwy, NW | 041 | 07/17/13 | * | | | |
| 63 | Harvard Street and Rock Creek Parkway, NW | 042 | 07/17/13 | * | | | |
| 64 | Adams Mill Road, south of Irving Street, NW | 043 | 07/25/13 | * | | | |
| 65 | Kenyon Street and Adams Mill Road, NW | 044 | 07/17/13 | * | | | |
| 65a | Kenyon Street and Adams Mill Road, NW | 044 | 07/17/13 | * | | | |
| 66 | Adams Mill Road and Lamont Street, NW | 045 | 07/17/13 | * | | | |
| 67 | Park Rd , south of Piney Branch Pkwy, NW | 046 | 07/24/13 | * | | | |
| 68 | Ingleside Terrance, Extended and Piney Branch Parkway, NW | 047 | 07/24/13 | * | | | |
| 69 | Mt. Pleasant Street, Extended and Piney Branch Parkway, NW | 048 | 07/24/13 | * | | | |
| 70 | Piney Branch Parkway, west of 16 th Street, NW | 049 | 07/24/13 | * | | | |
| 70i | 5 th and Quackenbos Streets, NW | 049 | 07/02/13 | * | | | |

| <i>Structure Number</i> | <i>Location</i> | <i>Associated NPDES Outfall</i> | <i>Date Inspected</i> | <i>Condition</i> | | <i>Work Needed</i> | <i>Work performed</i> |
|-------------------------|---|---------------------------------|-----------------------|------------------|------------|--------------------|-----------------------|
| | | | | Good | Needs Work | | |
| 71 | 28 th Street, west of Rock Creek Parkway, NW | 050 | 07/11/13 | * | | | |
| 72 | Olive Street Extended and Rock Creek Pkwy, NW | 051 | 07/29/13 | * | | | |
| 72a | Olive Street Extended and Rock Creek Pkwy, NW | 051 | 07/29/13 | * | | | |
| 73 | O Street Extended and Rock Creek Parkway, NW | 052 | 07/29/13 | * | | | |
| 74 ¹ | Q Street, west of Rock Creek, NW | 053 | N/A | | | | |
| 75 | West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW | 054 | 07/11/13 | * | | | |
| 77 | Normanstone Dr Extended, west of Rock Creek, NW | 056 | 07/11/13 | * | | | |
| 77a | Normanstone Dr and Normanstone Lane, NW | 056 | 07/31/13 | * | | | |
| 78 | 28th Street Extended, west of Rock Creek, NW | 057 | 07/11/13 | * | | | |
| 79 ¹ | Connecticut Ave and Rock Creek Parkway, NW | 058 | N/A | | | | |
| 84 | 26 th and P Streets, NW | 060 | 07/29/13 | * | | | |
| 84a | 26 th and P Streets, NW | 060 | 07/29/13 | * | | | |

Notes:

1. Structure no longer functions as a combined sewer overflow regulator structure.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.

2.2 Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

**Table 2-2
Outfalls and Tide Gates**

| NPDES Outfall | Location | Date Inspected | Outfall Condition | | Tide Gate Present? | | Tide Gate Condition | | CSO Sign | | Notes, Work Needed or Performed |
|------------------|---|-------------------|----------------------|---------------|-----------------------|----|------------------------|---------------|----------|---------------|---------------------------------|
| | | | OK | Needs Work | Yes | No | OK | Needs Work | OK | Needs Work | |
| 003 | Bolling Air Force Base, at Giavanolli and Chanute, SW | 07/29/13 | * | | * | | * | | * | | |
| 005 | Across from Navy Yard, aligned with Parsons Ave., SE | 07/30/13 | * | | * | | * | | * | | |
| 006 ¹ | Good Hope Road and Welsh Memorial Bridge | N/A | | | | | | | | | |
| 007 | Between 11 th St. and Anacostia Bridges, SE | 07/30/13 | * | | * | | * | | * | | |
| 009 | O St. Sewage Pumping Station, SE | 07/25/13 | * | | * | | * | | * | | |
| 010 | O St. Sewage Pumping Station, SE | 07/25/13 | * | | | * | | | * | | |
| 011 | Main Sewage Pumping Station, SE | 07/25/13 | * | | | * | | | * | | |
| 011(a) | Main Sewage Pumping Station, SE | 07/25/13 | * | | * | | * | | * | | |
| 012 | Main Sewage Pumping Station, SE | 07/25/13 | * | | * | | * | | * | | |
| 013 | Southeast Federal Center, aligned with 4 th St. | 07/11/13 | * | | * | | * | | * | | Under construction |
| 014 | Navy Yard, aligned with 6 th St., SE | 07/19/13 | * | | * | | * | | * | | |
| 015 | Navy Yard, aligned with 9th Street, SE | 07/19/13 | * | | | * | | | * | | |
| 016 | 12th and O Streets, SE | 07/19/13 | * | | * | | * | | * | | |
| 017 | M and Water Street, SE | 07/11/13 | * | | * | | * | | * | | |
| 018 | East of Barney Circle & South of Pennsylvania Avenue Bridge, SE | 07/05/13 | * | | * | | * | | * | | |
| 019 | Adjacent to Service Drive behind swirl facility & D.C. General Hospital | 07/18/13 | * | | | * | | | * | | |
| 020 | Rock Creek Parkway and Independence, NW | 07/11/13 | * | | * | | * | | * | | |
| 021 | Rock Creek Parkway and C St., NW | 07/11/13 | * | | | * | | | * | | |
| 022 | Rock Creek Parkway and G St., NW | 07/11/13 | * | | * | | * | | * | | |
| 024 | South of 30 th and K Streets, NW ¹ | 07/11/13 | * | | * | | | * | * | | |
| 025 | South of 31st and K Streets, NW | 07/11/13 | * | | * | | * | | * | | |
| 026 | Wisconsin Avenue and Water Street, NW | 07/11/13 | * | | * | | * | | * | | |
| 027 | 33 rd and Water Sts., NW | 07/11/13 | * | | | * | | | * | | |
| 028 | Key Bridge and Whitehurst Freeway, NW | 07/11/13 | * | | | * | | | * | | |
| 029 | Adjacent to C&O Canal, aligned with 38 th St. NW | 07/11/13 | * | | * | | * | | * | | |
| 031 ¹ | Rock Creek Pkwy & Pennsylvania Avenue, NW | N/A | | | | | | | | | |
| 032 | 26th and M Street, NW. | 07/16/13 | * | | | * | | | * | | |

| NPDES Outfall | Location | Date Inspected | Outfall Condition | | Tide Gate Present? | | Tide Gate Condition | | CSO Sign | | Notes, Work Needed or Performed |
|------------------|---|-------------------|----------------------|---------------|-----------------------|----|------------------------|---------------|----------|---------------|---------------------------------|
| | | | OK | Needs Work | Yes | No | OK | Needs Work | OK | Needs Work | |
| 033 | Across street from St. Francis Jr. High and aligned with N St., NW. | 07/16/13 | * | | * | | * | | * | | |
| 034 | Just west of St. Francis Jr. High and north of N St., NW | 07/29/13 | * | | * | | * | | * | | |
| 035 | P St. Bridge and Rock Creek Parkway | 07/29/13 | * | | * | | * | | * | | |
| 036 | 22nd Street, South of Q Street NW. | 07/25/13 | * | | * | | * | | * | | |
| 037 ¹ | Waterside Dr. and Rock Creek Parkway ¹ | N/A | | | | | | | | | |
| 038 | Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW. | 07/15/13 | * | | * | | * | | * | | |
| 039 | Connecticut Avenue Bridge and Rock Creek Parkway, NW. | 07/15/13 | * | | * | | * | | * | | |
| 040 | Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge. | 07/15/13 | * | | * | | * | | * | | |
| 041 | Beach Dr. and Ontario Pl., NW | 07/11/13 | * | | * | | * | | * | | |
| 042 | Harvard St. and Beach Dr NW. | 07/11/13 | * | | * | | * | | * | | |
| 043 | Upstream of Harvard St. and Beach Dr NW. | 07/11/13 | * | | * | | * | | * | | |
| 044 | Kenyon Street and Beach Dr., NW. | 07/11/13 | * | | * | | * | | * | | |
| 045 | North of Beach Dr. and Walbridge Pl, NW. | 07/11/13 | * | | * | | * | | * | | |
| 046 | Piney Branch Parkway and Park Road, NW. | 07/24/13 | * | | | * | | | * | | |
| 047 | Piney Branch Parkway and Ingleside Terrace | 07/24/13 | * | | * | | * | | * | | |
| 048 | South of Piney Branch Parkway and 17 th St. | 07/24/13 | * | | * | | * | | * | | |
| 049 | North of Piney Branch Parkway and 17 th St. | 07/24/13 | * | | * | | * | | * | | |
| 050 | Rock Creek Parkway and L St., NW | 07/11/13 | * | | * | | * | | * | | |
| 051 | Across Rock Creek Pkwy, aligned with Olive St., NW. | 07/25/13 | * | | * | | * | | * | | |
| 052 | Between P & Penna. Ave Bridges, aligned with O Street, NW. | 07/25/13 | * | | * | | * | | * | | |
| 053 ¹ | Q St. Bridge and Rock Creek Parkway, NW. | N/A | | | | | | | | | |
| 054 | Massachusetts Ave & Rock Creek Parkway, NW. | 07/11/13 | * | | * | | * | | * | | |
| 056 | Normanstone Dr. and Rock Creek Parkway, NW. | 07/11/13 | * | | * | | * | | * | | |
| 057 | 28th Street and Rock Creek Parkway, NW | 07/11/13 | * | | * | | * | | * | | |
| 058 ¹ | Connecticut Ave & Rock Creek Parkway, NW. | N/A | | | | | | | | | |
| 060 | North of P St. Bridge & Rock Creek Pkwy, NW | 07/25/13 | * | | * | | * | | * | | |

Notes:

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

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

**Table 2-3
Pumping Stations – Inspections and Equipment in Service**

| <i>Pumping Station</i> | <i>No. of Inspections</i> | <i>No. Screens</i> | <i>No. Pumps</i> | <i>Screens or Pumps Out of Service</i> | <i>Dates</i> | <i>Reason</i> | <i>Schedule to Restore to Service¹</i> |
|------------------------|---------------------------|--------------------|------------------|--|--------------|-----------------------|---|
| Main | 31 | 4 | 10 | #1 Sanitary Pump | July 1-31 | Pump being rehabbed | December 2013 |
| Eastside | 24 | 2 | 4 | #2 Screen | July 1-15 | Screen being rehabbed | Restored July 16, 2013 |
| | | | | #2 Sanitary Pump | July 1-31 | Pump being rehabbed | November 2013 |
| Poplar Point | 24 | 2 | 3 | #1 Screen | July 1-31 | Screen being rehabbed | November 2013 |
| | | | | #3 Screen | July 1-31 | Screen being rehabbed | November 2013 |
| Potomac | 31 | 4 | 5 | #3 Sanitary Pump | July 18-31 | Pump being rehabbed | August 2013 |
| | | | | #1 Screen | July 1-31 | Screen being rehabbed | Restored July 31, 2013 |

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

**Table 2-4
Pumping Stations – Preventive Maintenance**

| <i>Pumping Station</i> | <i>Date Performed</i> | <i>Type of Preventive Maintenance Performed¹</i> | <i>Comments</i> |
|------------------------|-----------------------|---|---|
| Main | 7/25/2013 | Group A | Add oil, grease bearings and replace packing if needed. |
| O St | 7/25/2013 | Group A | Add oil, grease bearings and replace packing if needed. |
| Eastside | 7/25/2013 | Group A | Add oil, grease bearings and replace packing if needed. |
| Poplar Point | 7/25/2013 | Group A | Add oil, grease bearings and replace packing if needed. |
| Potomac | 7/25/2013 | Group A | Add oil, grease bearings and replace packing if needed. |
| Rock Creek | 7/25/2013 | Group A | Add oil, grease bearings and replace packing if needed. |
| Upper Anacostia | 7/25/2013 | Group A | Add oil, grease bearings and replace packing if needed. |
| Earle Place | 7/25/2013 | Group A | Add oil, grease bearings and replace packing if needed. |

Notes:

1. Group A consists of:

Exercise bar screens

Exercise all sump pumps

Drain condensation from air compressor storage tank

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

Check all safety equipment

Issue work order requests as required

**Table 2-5
Pumping Stations – Pumpage**

| <i>Pumping Station</i> | <i>Sanitary Pumpage</i> | | <i>Storm Water/CSO Pumped To Anacostia River</i> | | |
|------------------------|------------------------------|--------------------------------------|--|--------------------|---|
| | <i>Total Wastewater (mg)</i> | <i>Daily Average Wastewater (mg)</i> | <i>Date</i> | <i>Volume (mg)</i> | <i>Screenings Collected (units)¹</i> |
| Main | 1,755.40 | 56.63 | N/A | N/A | N/A |
| O St | 155.60 | 5.02 | 7/13/2013 | 248.20 | Normal |
| Eastside | 412.38 | 13.30 | N/A | N/A | N/A |
| Poplar Point | 634.14 | 20.46 | N/A | N/A | N/A |
| Potomac | 3,698.90 | 119.32 | N/A | N/A | N/A |
| Rock Creek | 134.17 | 4.33 | N/A | N/A | N/A |
| Upper Anacostia | 152.29 | 4.91 | N/A | N/A | N/A |
| Earle Place | 0.11 | 0.00 | N/A | N/A | N/A |

Notes:

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

2.4 Northeast Boundary Swirl Facility

The Northeast Boundary Swirl Facility provides screening, swirl concentration, chlorination and dechlorination of CSO overflow from CSO 019. The capacity of the facility is 400 MGD. Facility operations are summarized below:

Table 2-6
Northeast Boundary Swirl Facility – Inspections and Equipment in Service

| <i>Date Inspected</i> | <i># of Screens</i> | <i># of Swirls</i> | <i>Screens or Swirls Out of Service</i> | <i>Dates</i> | <i>Reason</i> | <i>Schedule to Restore to Service</i> |
|-----------------------|---------------------|--------------------|---|--------------|---------------|---------------------------------------|
| 7/23/2013 | 1, 2 & 3 | 1, 2 & 3 | None | N/A | N/A | N/A |

**Table 2-7
Northeast Boundary Swirl Facility – Preventive Maintenance**

| <i>Date Performed</i> | <i>Type of Preventive Maintenance Performed¹</i> | <i>Comments</i> |
|-----------------------|---|-----------------|
| 7/23/13 | Group A | |

Notes:

1. Group A consists of:
 Exercise bar screens
 Exercise wash down system
 Exercise knife gates full travel both directions
 Check depth of grit in grit channel and schedule Vector truck as required
 Change chart paper on strip chart recorders at the end of each month
 Thoroughly clean each Swirl tank and channels
 Issue work order requests as required
 Drain condensation from air compress
 Check all safety equipment

**Table 2-8
Northeast Boundary Swirl Facility – Wet Weather Operations**

| <i>Date</i> | <i>Approx. Storm Duration (hrs)¹</i> | <i>Total Influent Volume (mg)</i> | <i>Total Foul Sewer Volume (mg)</i> | <i>Total Effluent Volume (mg)¹</i> | <i>Approx. Screenings Volume (Cu. ft)</i> |
|-------------|---|-----------------------------------|-------------------------------------|---|---|
| 7/1/2013 | 5 | 4.8 | 4.8 | 0.0 | 8.0 |
| 7/3/2013 | 4 | 3.8 | 3.8 | 0.0 | 8.0 |
| 7/8/2013 | 1.5 | 1.4 | 1.4 | 0.0 | 2.0 |
| 7/10/2013 | 2 | 0.9 | 0.9 | 0.0 | 40.0 |
| 7/12/2013 | 4.5 | 12.3 | 3.1 | 9.2 | 32.0 |
| 7/12/2013 | 6 | 2.8 | 2.8 | 0.0 | 8.0 |
| 7/18/2013 | 4 | 5.7 | 5.7 | 0.0 | 48.0 |
| 7/23/2013 | 3 | 4.0 | 4.0 | 0.0 | 32.0 |
| 7/27/2013 | 4 | 2.3 | 2.3 | 0.0 | 20.0 |

Note:

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.

Chlorination/Dechlorination Systems.

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

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

**Table 2-9
Northeast Boundary Swirl Facility – Disinfection Performance**

| <i>Date</i> | <i>Chlor/ Dechlor System Used?</i> | <i>Dosages</i> | | <i>Residual Chlorine Test Results</i> | | <i>E. Coli Test Results</i> | |
|-------------|--|-------------------------|-------------------------------------|---|-------------------------|------------------------------|--------------------------------|
| | | <i>NaOCl (mg/l)</i> | <i>NaHSO₃ (mg/l)</i> | <i>Location</i> | <i>Conc. (mg/l)</i> | <i>Site</i> | <i>Count Per 100ml</i> |
| 7/12 | Yes | 5 | 2 | Mix Chamber | 0.1 | Mix Chamber | <10 |
| | | | | Anacostia River ¹ | 0.0 | Anacostia River ¹ | <10 |

Notes:

1. River: River Outfall

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

| <i>Date</i> | <i>Flow Composited Sample Results</i> | | | | | | |
|-------------|---------------------------------------|--|--|--|------------------------------|--------------------------------|---|
| | <i>Total suspended solids (mg/L)</i> | <i>Nitrite (NO₂-N) mg/L</i> | <i>Nitrate (NO₃-N) mg/L</i> | <i>Total Kjeldahl Nitrogen (mg/L as N)</i> | <i>Total Nitrogen (mg/L)</i> | <i>Total Phosphorus (mg/L)</i> | <i>Carbonaceous Biological Oxygen Demand (mg/L)</i> |
| 7/12/13 | 61.0 | 0.00 | 0.52 | 1.33 | 1.85 | 0.21 | 6.48 |

2.5 Inflatable Dams

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

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

| <i>Inflatable Dam Structure No</i> | <i>Date Inspected</i> | <i>Was Dam Out of Service During the Month?</i> | <i>Dates out of Service</i> | <i>Reason</i> | <i>Schedule to Restore to Service</i> |
|--|-----------------------|---|-----------------------------|---------------|---|
| 14 - East | 7/30/2013 | No | N/A | N/A | N/A |
| 14 - West | 7/30/2013 | No | N/A | N/A | N/A |
| 15 | 7/30/2013 | No | N/A | N/A | N/A |
| 15A | 7/30/2013 | No | N/A | N/A | N/A |
| 16 - East | 7/30/2013 | No | N/A | N/A | N/A |
| 16 - West | 7/30/2013 | No | N/A | N/A | N/A |
| 24 - North | 7/31/2013 | No | N/A | N/A | N/A |
| 24 - Middle | 7/31/2013 | No | N/A | N/A | N/A |
| 24 - South | 7/31/2013 | No | N/A | N/A | N/A |
| 34 | 7/31/2013 | No | N/A | N/A | N/A |
| 35 | 7/31/2013 | No | N/A | N/A | N/A |
| 52 | 7/31/2013 | No | N/A | N/A | N/A |

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

| <i>Inflatable Dam Structure No.</i> | <i>Overflow Dates</i> | <i>Estimated Duration of Overflow</i> |
|-------------------------------------|---------------------------|--|
| 14 (E & W) | None | N/A |
| 15 | 7/12 | 2 hrs, 12 mins |
| 15A | 7/12 | 4 hrs, 40 mins |
| 16 (E & W) | 7/1 | 14 mins |
| | 7/12 | 53 mins |
| 24 | 7/1 | 9 mins |
| | 7/3 | 2 mins |
| | 7/8 | 2 mins |
| | 7/12 | 25 mins |
| | 7/18 | 2 mins |
| | 7/23 | 2 mins |
| 34 | 7/12 | 32 mins |
| 35 | 7/3 | 4 mins |
| | 7/10 | 9 mins |
| | 7/12 | 45 mins |
| 52 | None | N/A |
| <i>Structures on Outfall Sewers</i> | | |
| <i>Structures on Outfall Sewers</i> | <i>Overflow Dates</i> | <i>Estimated Duration of Overflow</i> |
| Outfall Structure 1 | None | This structure has been bulk headed. Overflows are no longer possible. |
| Outfall Structure 1A | None | This structure has been bulk headed. Overflows are no longer possible. |
| Outfall Structure 2 | None | None |
| <i>Outfall Sewer Control Gates</i> | | |
| <i>Outfall Sewer Control Gates</i> | <i>Operational Status</i> | <i>Position</i> |
| Outfall Sewer Control Gate No. 1 | Operational | Open |
| Outfall Sewer Control Gate No.2 | Operational | Open |

3. DRY WEATHER OVERFLOWS

There was no dry weather combined sewer overflow during July 2013.

Sanitary Sewer Overflows:

| | |
|--------------------------------------|--|
| Location | Pope Branch Creek, SE |
| Cause | As part of the process of replacing defective pipe of a 12-inch sanitary sewer that flows through Fort Davis Park near 3235 M Street, SE,. Corinthian Construction has mobilized equipment through a wooded portion of the park and set up a bypass pumping operation to continue working on the pipe repair. A DC Water technician supervising the sewer pipe repair work reported that the by-pass pumping operation had failed. |
| Date/ Time Discovered | July 25, 2013 at approximately 7:49 pm. |
| Action Taken | The bypass pump operation was restored. |
| Date/Time Discharge Ceased | July 25, 2013 at approximately 10:00 pm. |
| Estimated Volume | Approximately 7,200 gallons. |
| Did Overflow Reach Receiving water? | Yes. Pope Branch Creek. |
| Action taken to prevent reoccurrence | We have directed our contractor to reassess his monitoring plan for the by-pass operation to have more frequent inspections while we continue construction work to replace the defective pipe. Our department of Engineering and Technical Services has begun their evaluation on the 12-inch sewer that spans the creek bed to determine the most effective method of rehabilitation and protection to extend the service life of the pipe. |

| | |
|--------------------------------------|---|
| Location | 5111 Broad Branch Road, NW |
| Cause | A Sewer Services maintenance crew met with a representative from the National Park Service to investigate a report of an overflowing manhole. The crew found that the manhole cover had been removed and a six-foot long section of a tree branch was stuck inside the manhole obstructing the flow, causing the line to backup and overflow into Rock Creek. |
| Date/ Time Discovered | July 17, 2013 at approximately 4:30 pm. |
| Action Taken | The crew removed the branch from the manhole. |
| Date/Time Discharge Ceased | July 17, 2013 at approximately 4:45 pm. |
| Estimated Volume | Approximately 2,000 gallons. |
| Did Overflow Reach Receiving water? | Yes. Rock Creek. |
| Action taken to prevent reoccurrence | We plan to use wedges around the manhole top to secure it from further vandalism. |

SOLIDS AND FLOATABLES CONTROL

3.1 Catch Basin Cleaning

The following tables summarize catch basin cleaning in the Anacostia CSO area and in the entire sewer system:

| Ward | Total CBs | CBs in CSS | CBs in Anacostia CSS | Inspections | | Cleaning | | | | | |
|-----------------------------|---------------|---------------|----------------------|------------------------------------|-------------------------------------|-----------------------------|--------------|-------------------------|--------------|-------------------------------------|---------------|
| | | | | Total CBs Inspected Once this Year | Total CBs Inspected Twice this Year | CBs Cleaned Thru Last Month | | CB's Cleaned this Month | | Total CBs Cleaned This Year to Date | |
| | | | | | | Total | In CSS | Total | In CSS | Total | In CSS |
| 1 | 1,591 | 1,568 | 734 | 734 | 734 | 1792 | 1613 | 256 | 145 | 2048 | 1758 |
| 2 | 4,714 | 4,112 | 2,316 | 1597 | 521 | 1711 | 1570 | 1126 | 634 | 2837 | 2204 |
| 3 | 3,555 | 461 | - | 0 | 0 | 4332 | 633 | 670 | 21 | 5002 | 654 |
| 4 | 2,782 | 1,985 | 159 | 159 | 159 | 4380 | 2657 | 47 | 47 | 4427 | 2704 |
| 5 | 2,167 | 1,035 | 1,035 | 1035 | 819 | 2631 | 1589 | 587 | 265 | 3218 | 1854 |
| 6 | 1,783 | 1,594 | 1,594 | 681 | 11 | 787 | 681 | 0 | 0 | 787 | 681 |
| 7 | 2,313 | - | - | 0 | 0 | 2247 | 0 | 155 | 0 | 2402 | 0 |
| 8 | 1,278 | 116 | 116 | 116 | 58 | 767 | 357 | 0 | 0 | 767 | 357 |
| WASA Subtotal | 20,183 | 10,871 | 5,954 | 4,322 | 2,302 | 18,647 | 9,100 | 2,841 | 1,112 | 21,488 | 10,212 |
| DDOT (via VMS) Subtotal | | | | | | | | | | | |
| Grand Total | 20,183 | 10,871 | 5,954 | 4,322 | 2,302 | | | | | 21,488 | 10,212 |
| % Cleaned/Inspected to Date | | | | 72% | 38% | | | | | >100% | 94% |

3.2 BMP Demonstration Projects

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

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

Table 3-2
BMP Demonstration Projects – Report

| <i>Facility</i> | <i>Date Inspected</i> | <i>Condition</i> | <i>Work Needed</i> | <i>Work performed</i> | <i>Material Removed (CY)</i> |
|------------------------|-----------------------|------------------|--------------------|-----------------------|------------------------------|
| Netting System CSO 018 | 7/31/2013 | Good | Replace nets | Replaced nets | 225 lbs. |
| Bar Rack CSO 040 | 7/15/2013 | Good | None | Routine Cleaning | (1) |
| Bar Rack CSO 041 | 7/11/2013 | Good | None | Routine Cleaning | (1) |

Notes:

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

3.3 Anacostia River Floating Debris Removal Program

This program was initiated in October 1992 to remove floating debris from Anacostia and Potomac Rivers on a routine basis. The program has continued from that time and is now under the auspices of DC WATER, Department of Sewer Services. The floating debris removal program utilizes a skimmer boat and support boats to remove floatable debris from the Rivers as well as trash, which accumulates on the riverbanks and in the mud flats at low tides. Work for the most part is directed toward the Anacostia River. The boats pick up debris five days a week. Operations are summarized as follows:

**Table 3-3
Anacostia River Floating Debris Removal Program – Summary**

| | |
|-----------------------------------|---|
| <i>Program Operation</i> | 5-day work week, excluding holidays, weather permitting |
| <i>Work Days this month:</i> | 22 |
| <i>Days not Operating</i> | 4 |
| <i>Reason not Operating</i> | High winds, low tide, and PM/repair service. |
| <i># Skimmer in Fleet</i> | 3 Skimmers |
| <i># Skimmers Out of Service</i> | 3 Skimmers |
| <i>Dates</i> | B28: 7/1 - 7/31 B29: 7/1 - 7/31 B32: 7/17 - 7/18 |
| <i>Reason</i> | B28: Loading screen jammed. B29: Port and starboard propulsion pods leaking hydraulic oil. B32: Starboard wing fell off. |
| <i>Plan to Restore to Service</i> | B28: Send to Gates Marina for repairs within 30 days. B29: Receive from Gates Marina within 30 days. B32: Wing reattached on 7/17 and cleared by Fleet on 7/18. |
| <i>Volume Material Collected</i> | 60 tons |
| <i>Nature of Material</i> | Bottles, cans, natural debris and plastics. |

3.4 CSS Litter Control

This section describes DC WATER's efforts to coordinate litter control efforts with the National Park Service and D.C. Department of Public Works to maximize litter control efforts in the combined sewer system.

Status: no activities this month.

4. MONITORING

4.1 Condition Report Bar Racks at Main and O Street Storm Pumps

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

**Table 4-1
Bar Racks at Main & O Street Pumping Stations**

Inspector: Claude Price

| Pumping Station | Inspector | Date Inspected | Condition | | Work Needed | Work Performed or Schedule for Completion |
|---|-----------|----------------|-----------|------------|-------------|---|
| | | | Good | Needs Work | | |
| Bar Racks at O Street Storm Pumps (CSO 010) | CP | 7/11 | X | | | |
| Bar Racks at Main Storm Pumps (CSO 011) | CP | 7/11 | X | | | |

4.2 Rain Data

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

| Date | Brentwood Reservoir | Bryant St PS | Main PS | Rock Creek PS |
|-----------|---------------------|--------------|---------|---------------|
| 7/1/2013 | 0.18 | 0.24 | 0.4 | 0.16 |
| 7/2/2013 | 0.01 | 0.02 | 0.18 | 0.01 |
| 7/3/2013 | 0.26 | 0.29 | 0.1 | 0.26 |
| 7/4/2013 | 0 | 0 | 0 | 0 |
| 7/5/2013 | 0 | 0 | 0 | 0 |
| 7/6/2013 | 0 | 0 | 0 | 0 |
| 7/7/2013 | 0.02 | 0.04 | 0.03 | 0.08 |
| 7/8/2013 | 0.23 | 0.2 | 0.05 | 0.12 |
| 7/9/2013 | 0.01 | 0.01 | 0 | 0 |
| 7/10/2013 | 0.09 | 0.07 | 0.38 | 0.36 |
| 7/11/2013 | 0 | 0 | 0 | 0 |
| 7/12/2013 | 1.25 | 1.19 | 1.24 | 2.05 |
| 7/13/2013 | 0.07 | 0.07 | 0.16 | 0.07 |
| 7/14/2013 | 0 | 0 | 0 | 0 |
| 7/15/2013 | 0 | 0 | 0 | 0 |
| 7/16/2013 | 0 | 0 | 0 | 0 |
| 7/17/2013 | 0 | 0 | 0 | 0 |
| 7/18/2013 | 0.15 | 0.14 | 0.03 | 0.01 |
| 7/19/2013 | 0 | 0 | 0 | 0 |
| 7/20/2013 | 0 | 0 | 0 | 0 |
| 7/21/2013 | 0 | 0 | 0 | 0 |
| 7/22/2013 | 0.16 | 0.14 | 0.09 | 0.01 |
| 7/23/2013 | 0.01 | 0 | 0 | 0 |
| 7/24/2013 | 0 | 0 | 0 | 0 |
| 7/25/2013 | 0 | 0 | 0 | 0 |
| 7/26/2013 | 0 | 0 | 0 | 0 |
| 7/27/2013 | 0.19 | 0.19 | 0.19 | 0.42 |
| 7/28/2013 | 0 | 0 | 0.01 | 0 |
| 7/29/2013 | 0 | 0 | 0 | 0 |
| 7/30/2013 | 0 | 0 | 0 | 0 |
| 7/31/2013 | 0 | 0 | 0 | 0.04 |
| TOTAL | 2.63 | 2.60 | 2.86 | 3.59 |



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

**Monthly Operations Report
For
Combined Sewer System
Month: August 2013**

Prepared By:
District of Columbia
Water and Sewer Authority
Department of Sewer Services
Washington, D.C. 20003

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

Monthly Operations Report for Combined Sewer System
Month: August 2013

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1. INTRODUCTION

The District of Columbia Water and Sewer Authority (DC Water) operates a wastewater collection system comprised of separate and combined sewers. Separate storm and sanitary sewers serve parts of the District. In the combined sewer system (CSS), there is a single sewer to convey storm water and sanitary wastes. The area served by combined sewers comprises about one-third of the District.

During dry weather, sanitary wastes collected in the CSS are conveyed to the DC Water's wastewater treatment plant at Blue Plains (BPWWTP or the Blue Plains WWTP). During periods of rainfall, the capacity of a combined sewer may be exceeded and the excess flow, which is a mixture of storm water and sanitary wastes, is discharged directly to the Anacostia River, Rock Creek or the Potomac River or their tributary waters. This report summarizes the operations of the operations of the combined sewer system for the month indicated.

2. OPERATION AND MAINTENANCE

2.1 Regulators

Regulators divert combined sewage to interceptors, which convey flow to BPWWTP for treatment. When flows exceed the capacities of the systems such as during significant rain events, regulators divert excess flow to CSO outfalls which discharge to receiving waters. The following table summarizes inspections of CSO regulators in the collection system.

**Table 2-1
Regulator Structures**

| Structure Number | Location | Associated NPDES Outfall | Date Inspected | Condition | | Work Needed | Work performed |
|------------------|--|--------------------------|----------------|-----------|------------|-------------|---------------------------------------|
| | | | | Good | Needs Work | | |
| 2 | Bolling AFB, 2250 ft. north of the south line of the Base, SW | 003 | 08/21/13 | * | | | |
| 4 | Bolling AFB, 2250 ft. north of the south line of the Base, SW | 003 | 08/21/13 | * | | | |
| 5 | Poplar Point Pumping Station | 004 | 08/27/13 | * | | | |
| 6 | Chicago Street and Railroad Ave, SE | 005 | 08/09/13 | * | | | |
| 7 | W Street and Railroad Ave, SE | 005 | 08/09/13 | * | | | |
| 8 ¹ | Good Hope Rd, west of Nichols Ave, SE | 006 | N/A | | | | |
| 9 | 13 th Street and Ridge Place, SE | 007 | 08/05/13 | * | | | |
| 11 | "O" Street Pumping Station | 011(a) | 08/27/13 | * | | | |
| 12 | Storm Pump Discharge at Main Pumping Station | 011 | 08/27/13 | * | | | |
| 13 | 2 nd Street, 300 ft. north of N Place, SE | 009 | 08/21/13 | * | | | |
| 14 | 2 nd Street, 250 ft. north of N Place, SE | 011(a) | 08/27/13 | * | | | |
| 15 | South Capitol and E Streets | 010 | 08/07/13 | * | | | |
| 15a | Half and L Streets, SE | 010 | 08/07/13 | * | | | |
| 15b | South Capitol and I Streets | 010 | 08/09/13 | * | | | |
| 15c | South Capitol and I Streets | 010 | 08/09/13 | * | | | |
| 16 | North of Main Sewage Pumping Station | 012 | 08/27/13 | * | | | |
| 17 | 4 th and N Streets, SE, Both Extended | 013 | N/A | | | | Construction for Clean Rivers Project |
| 17a | K Street between 6 th Street and 7 th Street, SE | 013 | 08/26/13 | * | | | |
| 18 | 6 th and M Streets, SE | 014 | 08/05/13 | * | | | |
| 19 | 9 th and M Streets, SE | 015 | N/A | | | | Construction for Clean Rivers Project |
| 19a | 9 th and M Streets, SE | 015 | N/A | | | | Construction for Clean Rivers Project |
| 20 | 12 th and M Streets, SE | 016 | N/A | | | | Construction for Clean Rivers Project |
| 20a | 12 th and M Streets, SE | 016 | N/A | | | | Construction for Clean Rivers Project |
| 21 | 14 th and M Streets, SE | 017 | 08/07/13 | * | | | |
| 22a | Barney Circle and Pennsylvania Ave, SE | 018 | 08/06/13 | * | | | |
| 22b | Barney Circle and Pennsylvania Ave, SE | 018 | 08/06/13 | * | | | |

| Structure Number | Location | Associated NPDES Outfall | Date Inspected | Condition | | Work Needed | Work performed |
|------------------|--|--------------------------|----------------|-----------|------------|-------------|----------------|
| | | | | Good | Needs Work | | |
| 22c | Barney Circle and Pennsylvania Ave, SE | 018 | 08/06/13 | * | | | |
| 22d | Kentucky Ave and Potomac Street, SE | 018 | 08/06/13 | * | | | |
| 22e | 14 th Street and Kentucky Ave, SE | 018 | 08/05/13 | * | | | |
| 23 | Independence Ave, 21 st Street, SE, Extended | 019 | 08/05/13 | * | | | |
| 24a | East Capitol St, west of RFK stadium | 019 | 08/05/13 | * | | | |
| 28 | 21 st and Constitution Ave, NW | 020 | 08/16/13 | * | | | |
| 29 | 22 nd Street, between Constitution Ave and C St, NW | 020 | 08/16/13 | * | | | |
| 30 | 17 th and D Streets, NW | 020 | 08/06/13 | * | | | |
| 31 | 15 th Street and Pennsylvania Ave, NW | 020 | 08/06/13 | * | | | |
| 33 | 10 th and F Streets, NW | 020 | 08/06/13 | * | | | |
| 34 | 23 rd Street, north of Constitution Ave, NW | 020 | 08/27/13 | * | | | |
| 34a | 23 rd Street near C Street, NW | 020 | 08/16/13 | * | | | |
| 35 | Northeast of Roosevelt Bridge, NW | 021 | 08/27/13 | * | | | |
| 36 | 27 th and I Streets, NW | 022 | 08/06/13 | * | | | |
| 36a | New Hampshire Ave and Eye Street, NW | 022 | 08/06/13 | * | | | |
| 36b | 19 th and L Streets, NW | 022, 034 | 08/05/13 | * | | | |
| 36d | 17 th and L Streets, NW | 022, 034 | 08/05/13 | * | | | |
| 36g | 18 th and M Streets, NW | 022, 034 | 08/05/13 | * | | | |
| 36h | 18 th and M Streets, NW | 022, 034 | 08/05/13 | * | | | |
| 37 | 27 th and Eye Streets, NW | 022 | 08/06/13 | * | | | |
| 38 | 29 th and K Streets, NW | 024 | 08/05/13 | * | | | |
| 38a | 30 th Street, south of K Street, NW | 024 | 08/05/13 | * | | | |
| 39a | 30 th and K Streets, NW | 024 | 08/05/13 | * | | | |
| 39b | 30 th and K Streets, NW | 024 | 08/05/13 | * | | | |
| 41b | 31 st and K Streets, NW | 025 | 08/05/13 | * | | | |
| 41c | 31 st and K Streets, NW | 025 | 08/05/13 | * | | | |
| 42 | Wisconsin Ave and K Street, NW | 026 | 08/13/13 | * | | | |
| 43 | Potomac and Water Streets, NW | 027 | 08/13/13 | * | | | |
| 43a | Potomac and Water Streets, NW | 027 | 08/13/13 | * | | | |
| 44 | Water Street, west of Potomac St, NW | 027 | 08/13/13 | * | | | |
| 45 | 36 th and M Streets, NW | 028 | 08/12/13 | * | | | |
| 46 | Canal Rd, 1000ft. east of Foxhall Rd, NW | 029 | 08/12/13 | * | | | |

| Structure Number | Location | Associated NPDES Outfall | Date Inspected | Condition | | Work Needed | Work performed |
|------------------|--|--------------------------|----------------|-----------|------------|-------------|----------------|
| | | | | Good | Needs Work | | |
| 47 | 38 th Street and Reservoir Road, NW | 029 | 08/12/13 | * | | | |
| 47a | 37 th and T Streets, NW | 029 | 08/12/13 | * | | | |
| 47b | 37 th and T Streets, NW | 029 | 08/12/13 | * | | | |
| 47c | 38 th and W Streets, NW | 029 | 08/12/13 | * | | | |
| 49 ^l | Pennsylvania Ave, east side of Rock Creek, NW | 031 | N/A | | | | |
| 50 | 26 and M Streets, NW | 032 | 08/09/13 | * | | | |
| 51 | N Street Extended, west of 25 th Street, NW | 033 | 08/09/13 | * | | | |
| 52 | 22 nd Street between M and N Streets, NW | 034 | 08/27/13 | * | | | |
| 52a | N Street between 22 nd and 23 rd Streets, NW | 034 | 08/27/13 | * | | | |
| 53 | 22 nd and M Streets, NW | 022, 034 | 08/27/13 | * | | | |
| 53a | 22 nd and M Streets, NW | 022, 034 | 08/27/13 | * | | | |
| 53b | L Street between 21 st Street and New Hampshire Ave, NW | 022, 034 | 08/09/13 | * | | | |
| 53c | L and 22 nd Streets, NW | 022 | 08/09/13 | * | | | |
| 54 | 23 rd and O Streets, NW | 034 | 08/13/13 | * | | | |
| 55 | 22 nd Street, south of Q Street, NW | 035 | 08/13/13 | * | | | |
| 55a | 22 nd Street, south of Q Street, NW | 035 | 08/13/13 | * | | | |
| 56 | 23 rd and Massachusetts Ave, NW | 036 | 08/13/13 | * | | | |
| 57 | 23 rd Street, south of Q Street, NW | 036 | 08/13/13 | * | | | |
| 58 | Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW | 037 | N/A | | | | |
| 59 ^l | North of Belmont Rd, east of Kalorama Cir, NW | 038 | 08/26/13 | * | | | |
| 60 | Connecticut Ave, east of Rock Creek, NW | 039 | 08/05/13 | * | | | |
| 61 | Biltmore St, Extended, east of Rock Creek, NW | 040 | 08/05/13 | * | | | |
| 62 | Ontario Rd, Extended, and Rock Creek Pkwy, NW | 041 | 08/16/13 | * | | | |
| 63 | Harvard Street and Rock Creek Parkway, NW | 042 | 08/16/13 | * | | | |
| 64 | Adams Mill Road, south of Irving Street, NW | 043 | 08/16/13 | * | | | |
| 65 | Kenyon Street and Adams Mill Road, NW | 044 | 08/16/13 | * | | | |
| 65a | Kenyon Street and Adams Mill Road, NW | 044 | 08/16/13 | * | | | |
| 66 | Adams Mill Road and Lamont Street, NW | 045 | 08/16/13 | * | | | |
| 67 | Park Rd , south of Piney Branch Pkwy, NW | 046 | 08/16/13 | * | | | |
| 68 | Ingleside Terrance, Extended and Piney Branch Parkway, NW | 047 | 08/16/13 | * | | | |
| 69 | Mt. Pleasant Street, Extended and Piney Branch Parkway, NW | 048 | 08/16/13 | * | | | |
| 70 | Piney Branch Parkway, west of 16 th Street, NW | 049 | 08/16/13 | * | | | |

| Structure Number | Location | Associated NPDES Outfall | Date Inspected | Condition | | Work Needed | Work performed |
|------------------|---|--------------------------|----------------|-----------|------------|-------------|----------------|
| | | | | Good | Needs Work | | |
| 70i | 5 th and Quackenbos Streets, NW | 049 | 08/26/13 | * | | | |
| 71 | 28 th Street, west of Rock Creek Parkway, NW | 050 | 08/26/13 | * | | | |
| 72 | Olive Street Extended and Rock Creek Pkwy, NW | 051 | 08/13/13 | * | | | |
| 72a | Olive Street Extended and Rock Creek Pkwy, NW | 051 | 08/13/13 | * | | | |
| 73 | O Street Extended and Rock Creek Parkway, NW | 052 | 08/13/13 | * | | | |
| 74 ¹ | Q Street, west of Rock Creek, NW | 053 | N/A | | | | |
| 75 | West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW | 054 | 08/16/13 | * | | | |
| 77 | Normanstone Dr Extended, west of Rock Creek, NW | 056 | 08/16/13 | * | | | |
| 77a | Normanstone Dr and Normanstone Lane, NW | 056 | 08/16/13 | * | | | |
| 78 ¹ | 28th Street Extended, west of Rock Creek, NW | 057 | N/A | | | | |
| 79 ¹ | Connecticut Ave and Rock Creek Parkway, NW | 058 | N/A | | | | |
| 84 | 26 th and P Streets, NW | 060 | 08/13/13 | * | | | |
| 84a | 26 th and P Streets, NW | 060 | 08/13/13 | * | | | |

Notes:

1. Structure no longer functions as a combined sewer overflow regulator structure.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.

2.2 Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

**Table 2-2
Outfalls and Tide Gates**

| NPDES Outfall | Location | Date Inspected | Outfall Condition | | Tide Gate Present? | | Tide Gate Condition | | CSO Sign | | Notes, Work Needed or Performed |
|------------------|---|-------------------|----------------------|---------------|-----------------------|----|------------------------|---------------|----------|---------------|---------------------------------|
| | | | OK | Needs Work | Yes | No | OK | Needs Work | OK | Needs Work | |
| 003 | Bolling Air Force Base, at Giavanolli and Chanute, SW | 08/21/13 | * | | * | | * | | * | | |
| 005 | Across from Navy Yard, aligned with Parsons Ave., SE | 08/28/13 | * | | * | | * | | * | | |
| 006 | Good Hope Road and Welsh Memorial Bridge | 08/08/13 | * | | * | | * | | * | | |
| 007 | Between 11 th St. and Anacostia Bridges, SE | 08/08/13 | * | | * | | * | | * | | |
| 009 | O St. Sewage Pumping Station, SE | 08/08/13 | * | | * | | * | | * | | |
| 010 | O St. Sewage Pumping Station, SE | 08/08/13 | * | | | * | | | * | | |
| 011 | Main Sewage Pumping Station, SE | 08/08/13 | * | | | * | | | * | | |
| 011(a) | Main Sewage Pumping Station, SE | 08/08/13 | * | | * | | * | | * | | |
| 012 | Main Sewage Pumping Station, SE | 08/15/13 | * | | * | | * | | * | | |
| 013 | Southeast Federal Center, aligned with 4 th St. | 08/15/13 | * | | * | | * | | * | | Under construction |
| 014 | Navy Yard, aligned with 6 th St., SE | 08/15/13 | * | | * | | * | | * | | |
| 015 | Navy Yard, aligned with 9th Street, SE | 08/15/13 | * | | | * | | | * | | |
| 016 | 12th and O Streets, SE | 08/15/13 | * | | * | | * | | * | | |
| 017 | M and Water Street, SE | 08/15/13 | * | | * | | * | | * | | |
| 018 | East of Barney Circle & South of Pennsylvania Avenue Bridge, SE | 08/15/13 | * | | * | | * | | * | | |
| 019 | Adjacent to Service Drive behind swirl facility & D.C. General Hospital | 08/15/13 | * | | | * | | | * | | |
| 020 | Rock Creek Parkway and Independence, NW | 08/08/13 | * | | * | | * | | * | | |
| 021 | Rock Creek Parkway and C St., NW | 08/08/13 | * | | | * | | | * | | |
| 022 | Rock Creek Parkway and G St., NW | 08/08/13 | * | | * | | * | | * | | |
| 024 | South of 30 th and K Streets, NW | 08/08/13 | * | | * | | | * | * | | |
| 025 | South of 31st and K Streets, NW | 08/08/13 | * | | * | | * | | * | | |
| 026 | Wisconsin Avenue and Water Street, NW | 08/08/13 | * | | * | | * | | * | | |
| 027 | 33 rd and Water Sts., NW | 08/08/13 | * | | | * | | | * | | |
| 028 | Key Bridge and Whitehurst Freeway, NW | 08/08/13 | * | | | * | | | * | | |
| 029 | Adjacent to C&O Canal, aligned with 38 th St. NW | 08/08/13 | * | | * | | * | | * | | |
| 031 ¹ | Rock Creek Pkwy & Pennsylvania Avenue, NW | N/A | * | | | * | | | * | | |

| NPDES Outfall | Location | Date Inspected | Outfall Condition | | Tide Gate Present? | | Tide Gate Condition | | CSO Sign | | Notes, Work Needed or Performed |
|------------------|---|-------------------|----------------------|---------------|-----------------------|----|------------------------|---------------|----------|---------------|---------------------------------|
| | | | OK | Needs Work | Yes | No | OK | Needs Work | OK | Needs Work | |
| 032 | 26th and M Street, NW. | 08/09/13 | * | | | * | | | * | | |
| 033 | Across street from St. Francis Jr. High and aligned with N St., NW. | 08/09/13 | * | | * | | | * | * | | |
| 034 | Just west of St. Francis Jr. High and north of N St., NW | 08/13/13 | * | | * | | | * | * | | |
| 035 | P St. Bridge and Rock Creek Parkway | 08/13/13 | * | | * | | | * | * | | |
| 036 | 22nd Street, South of Q Street NW. | 08/13/13 | * | | * | | | * | * | | |
| 037 | Waterside Dr. and Rock Creek Parkway | 08/13/13 | * | | * | | | * | * | | |
| 038 | Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW. | 08/08/13 | * | | * | | | * | * | | |
| 039 | Connecticut Avenue Bridge and Rock Creek Parkway, NW. | 08/05/13 | * | | * | | | * | * | | |
| 040 | Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge. | 08/05/13 | * | | * | | | * | * | | |
| 041 | Beach Dr. and Ontario Pl., NW | 08/06/13 | * | | * | | | * | * | | |
| 042 | Harvard St. and Beach Dr NW. | 08/06/13 | * | | * | | | * | * | | |
| 043 | Upstream of Harvard St. and Beach Dr NW. | 08/06/13 | * | | * | | | * | * | | |
| 044 | Kenyon Street and Beach Dr., NW. | 08/06/13 | * | | * | | | * | * | | |
| 045 | North of Beach Dr. and Walbridge Pl, NW. | 08/06/13 | * | | * | | | * | * | | |
| 046 | Piney Branch Parkway and Park Road, NW. | 08/16/13 | * | | * | | | * | * | | |
| 047 | Piney Branch Parkway and Ingleside Terrace | 08/16/13 | * | | * | | | * | * | | |
| 048 | South of Piney Branch Parkway and 17 th St. | 08/16/13 | * | | * | | | * | * | | |
| 049 | North of Piney Branch Parkway and 17 th St. | 08/26/13 | * | | * | | | * | * | | |
| 050 | Rock Creek Parkway and L St., NW | 08/08/13 | * | | * | | | * | * | | |
| 051 | Across Rock Creek Pkwy, aligned with Olive St., NW. | 08/08/13 | * | | * | | | * | * | | |
| 052 ¹ | Between P & Penna. Ave Bridges, aligned with O Street, NW. | N/A | | | | | | | | | |
| 053 | Q St. Bridge and Rock Creek Parkway, NW. | 08/16/13 | * | | * | | | * | * | | |
| 054 | Massachusetts Ave & Rock Creek Parkway, NW. | 08/16/13 | * | | * | | | * | * | | |
| 056 ¹ | Normanstone Dr. and Rock Creek Parkway, NW. | N/A | | | | | | | | | |
| 057 ¹ | 28th Street and Rock Creek Parkway, NW | N/A | | | | | | | | | |
| 058 | Connecticut Ave & Rock Creek Parkway, NW. | 08/28/13 | * | | * | | | * | * | | |
| 060 | North of P St. Bridge & Rock Creek Pkwy, NW | 08/16/13 | * | | * | | | * | * | | |

Notes:

1. Outfall no longer functions as combined sewer outfall.

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2.3 Pumping Stations

Pumping station operations are summarized in the table below.

**Table 2-3
Pumping Stations – Inspections and Equipment in Service**

| <i>Pumping Station</i> | <i>No. of Inspections</i> | <i>No. Screens</i> | <i>No. Pumps</i> | <i>Screens or Pumps Out of Service</i> | <i>Dates</i> | <i>Reason</i> | <i>Schedule to Restore to Service¹</i> |
|------------------------|---------------------------|--------------------|------------------|--|--------------|-----------------------|---|
| Main | 31 | 4 | 10 | #1 Sanitary Pump | August 1-31 | Pump being rehabbed | December 2013 |
| Eastside | 25 | 2 | 4 | #2 Sanitary Pump | August 1-31 | Pump being rehabbed | November 2013 |
| Poplar Point | 25 | 2 | 3 | #1 Screen | August 1-31 | Screen being rehabbed | November 2013 |
| | | | | #3 Screen | August 1-31 | Screen being rehabbed | November 2013 |
| Potomac | 31 | 4 | 5 | #1 Sanitary Pump | August 1-31 | Pump being rehabbed | October 2013 |
| | | | | #3 Sanitary Pump | August 1-22 | Pump being rehabbed | Restored August 22, 2013 |

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

**Table 2-4
Pumping Stations – Preventive Maintenance**

| <i>Pumping Station</i> | <i>Date Performed</i> | <i>Type of Preventive Maintenance Performed¹</i> | <i>Comments</i> |
|------------------------|-----------------------|---|---|
| Main | 8/28/2013 | Group A | Add oil, grease bearings and replace packing if needed. |
| O St | 8/28/2013 | Group A | Add oil, grease bearings and replace packing if needed. |
| Eastside | 8/28/2013 | Group A | Add oil, grease bearings and replace packing if needed. |
| Poplar Point | 8/28/2013 | Group A | Add oil, grease bearings and replace packing if needed. |
| Potomac | 8/28/2013 | Group A | Add oil, grease bearings and replace packing if needed. |
| Rock Creek | 8/28/2013 | Group A | Add oil, grease bearings and replace packing if needed. |
| Upper Anacostia | 8/28/2013 | Group A | Add oil, grease bearings and replace packing if needed. |
| Earle Place | 8/28/2013 | Group A | Add oil, grease bearings and replace packing if needed. |

Notes:

1. Group A consists of:

- Exercise bar screens
- Exercise all sump pumps
- Drain condensation from air compressor storage tank
- Check depth of screening in the screen room and schedule Vactor truck as required
- Check all safety equipment
- Issue work order requests as required

**Table 2-5
Pumping Stations – Pumpage**

| <i>Pumping Station</i> | <i>Sanitary Pumpage</i> | | <i>Storm Water/CSO Pumped To Anacostia River</i> | | |
|------------------------|------------------------------|--------------------------------------|--|--------------------|---|
| | <i>Total Wastewater (mg)</i> | <i>Daily Average Wastewater (mg)</i> | <i>Date</i> | <i>Volume (mg)</i> | <i>Screenings Collected (units)¹</i> |
| Main | 1,412.20 | 45.55 | N/A | N/A | N/A |
| O St | 158.50 | 5.11 | N/A | N/A | Normal |
| Eastside | 313.50 | 10.11 | N/A | N/A | N/A |
| Poplar Point | 681.39 | 21.98 | N/A | N/A | N/A |
| Potomac | 3,144.40 | 101.43 | N/A | N/A | N/A |
| Rock Creek | 101.67 | 3.28 | N/A | N/A | N/A |
| Upper Anacostia | 152.92 | 4.93 | N/A | N/A | N/A |
| Earle Place | 0.14 | 0.00 | N/A | N/A | N/A |

Notes:

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

2-6 Northeast Boundary Swirl Facility

The Northeast Boundary Swirl Facility provides screening, swirl concentration, chlorination and dechlorination of CSO overflow from CSO 019. The capacity of the facility is 400 MGD. Facility operations are summarized below:

**Table 2-6
Northeast Boundary Swirl Facility – Inspections and Equipment in Service**

| <i>Date Inspected</i> | <i># of Screens</i> | <i># of Swirls</i> | <i>Screens or Swirls Out of Service</i> | <i>Dates</i> | <i>Reason</i> | <i>Schedule to Restore to Service</i> |
|-----------------------|---------------------|--------------------|---|--------------|---------------|---------------------------------------|
| 8/19/2013 | 1, 2 & 3 | 1, 2 & 3 | None | N/A | N/A | N/A |

**Table 2-7
Northeast Boundary Swirl Facility – Preventive Maintenance**

| <i>Date Performed</i> | <i>Type of Preventive Maintenance Performed¹</i> | <i>Comments</i> |
|-----------------------|---|-----------------|
| 8/19/13 | Group A | |

Notes:

1. Group A consists of:
 Exercise bar screens
 Exercise wash down system
 Exercise knife gates full travel both directions
 Check depth of grit in grit channel and schedule Vector truck as required
 Change chart paper on strip chart recorders at the end of each month
 Thoroughly clean each Swirl tank and channels
 Issue work order requests as required
 Drain condensation from air compress
 Check all safety equipment

**Table 2-8
Northeast Boundary Swirl Facility – Wet Weather Operations**

| <i>Date</i> | <i>Approx. Storm Duration (hrs)¹</i> | <i>Total Influent Volume (mg)</i> | <i>Total Foul Sewer Volume (mg)</i> | <i>Total Effluent Volume (mg)¹</i> | <i>Approx. Screenings Volume (Cu. ft)</i> |
|-------------|---|-----------------------------------|-------------------------------------|---|---|
| 8/1/2013 | 6 | 6.1 | 6.1 | 0.0 | 12 |
| 8/12/2013 | 2.5 | 2.3 | 2.3 | 0.0 | 12 |
| 8/13/2013 | 12 | 8.8 | 8.8 | 0.0 | 116 |
| 8/14/2013 | 3 | 0.7 | 0.7 | 0.0 | 12 |

Note:

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.

Chlorination/Dechlorination Systems.

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

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

**Table 2-9
Northeast Boundary Swirl Facility – Disinfection Performance**

| <i>Date</i> | <i>Chlor/ Dechlor System Used?</i> | <i>Dosages</i> | | <i>Residual Chlorine Test Results</i> | | <i>E. Coli Test Results</i> | |
|-------------|--|-------------------------|-------------------------------------|---|-------------------------|------------------------------|--------------------------------|
| | | <i>NaOCl (mg/l)</i> | <i>NaHSO₃ (mg/l)</i> | <i>Location</i> | <i>Conc. (mg/l)</i> | <i>Site</i> | <i>Count Per 100ml</i> |
| N/A | Yes | 5 | 2 | Mix Chamber | | Mix Chamber | |
| | | | | Anacostia River ¹ | | Anacostia River ¹ | |

Notes:

1. River: River Outfall

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

| <i>Date</i> | <i>Flow Composited Sample Results</i> | | | | | | |
|-------------|---------------------------------------|--|--|--|------------------------------|--------------------------------|---|
| | <i>Total suspended solids (mg/L)</i> | <i>Nitrite (NO₂-N) mg/L</i> | <i>Nitrate (NO₃-N) mg/L</i> | <i>Total Kjeldahl Nitrogen (mg/L as N)</i> | <i>Total Nitrogen (mg/L)</i> | <i>Total Phosphorus (mg/L)</i> | <i>Carbonaceous Biological Oxygen Demand (mg/L)</i> |
| N/A | | | | | | | |

2.5 Inflatable Dams

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

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

| <i>Inflatable Dam Structure No</i> | <i>Date Inspected</i> | <i>Was Dam Out of Service During the Month?</i> | <i>Dates out of Service</i> | <i>Reason</i> | <i>Schedule to Restore to Service</i> |
|--|-----------------------|---|-----------------------------|---------------|---|
| 14 - East | 8/27/2013 | No | N/A | N/A | N/A |
| 14 - West | 8/27/2013 | No | N/A | N/A | N/A |
| 15 | 8/27/2013 | No | N/A | N/A | N/A |
| 15A | 8/27/2013 | No | N/A | N/A | N/A |
| 16 - East | 8/27/2013 | No | N/A | N/A | N/A |
| 16 - West | 8/27/2013 | No | N/A | N/A | N/A |
| 24 - North | 8/29//2013 | No | N/A | N/A | N/A |
| 24 - Middle | 8/29//2013 | No | N/A | N/A | N/A |
| 24 - South | 8/29//2013 | No | N/A | N/A | N/A |
| 34 | 8/29//2013 | No | N/A | N/A | N/A |
| 35 | 8/29//2013 | No | N/A | N/A | N/A |
| 52 | 8/29//2013 | No | N/A | N/A | N/A |

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

| <i>Inflatable Dam Structure No.</i> | <i>Overflow Dates</i> | <i>Estimated Duration of Overflow</i> |
|-------------------------------------|---------------------------|--|
| 14 (E & W) | None | N/A |
| 15 | 8/13 | 20 mins |
| 15A | 8/13 | 1 hr, 11 mins |
| | 8/14 | 16 mins |
| 16 (E & W) | 8/13 | 24 mins |
| 24 | 8/13 | 9 mins |
| 34 | 8/13 | 13 mins |
| 35 | 8/13 | 8 mins |
| 52 | None | N/A |
| <i>Structures on Outfall Sewers</i> | | |
| <i>Structures on Outfall Sewers</i> | <i>Overflow Dates</i> | <i>Estimated Duration of Overflow</i> |
| Outfall Structure 1 | None | This structure has been bulk headed. Overflows are no longer possible. |
| Outfall Structure 1A | None | This structure has been bulk headed. Overflows are no longer possible. |
| Outfall Structure 2 | None | None |
| <i>Outfall Sewer Control Gates</i> | | |
| <i>Outfall Sewer Control Gates</i> | <i>Operational Status</i> | <i>Position</i> |
| Outfall Sewer Control Gate No. 1 | Operational | Open |
| Outfall Sewer Control Gate No.2 | Operational | Open |

3. DRY WEATHER OVERFLOWS

There was no dry weather combined sewer overflow during August 2013.

Sanitary Sewer Overflows:

| | |
|--------------------------------------|--|
| Location | Pope Branch Creek, SE |
| Cause | The District of Columbia Water and Sewer Authority (DC Water) received a report from the District's Department of the Environment (DDOE) of a possible leak on a sewer that flows through Fort Davis Park. A Sewer Services crew was dispatched to investigate the report. Dye testing by the crew revealed several leaks on a 12-inch sanitary sewer in a heavily wooded area of Fort Davis Park adjacent to 35 th St SE seeping into the stream. A DC Water repair crew applied quick setting concrete on the identified leaks as a short-term measure to prevent further seepage into the creek. |
| Date/ Time Discovered | August 7, 2013 at approximately 12:07 pm. |
| Action Taken | The bypass pump operation was restored. |
| Date/Time Discharge Ceased | August 8, 2013 |
| Estimated Volume | Approximately 2,000 gallons. |
| Did Overflow Reach Receiving water? | Yes. Pope Branch Creek. |
| Action taken to prevent reoccurrence | DC Water Engineering Department is coordinating with DDOE to secure permits to address a permanent solution, involving stream restoration and sewer rehabilitation. |

SOLIDS AND FLOATABLES CONTROL

3.1 Catch Basin Cleaning

The following tables summarize catch basin cleaning in the Anacostia CSO area and in the entire sewer system:

| Ward | Total CBs | CBs in CSS | Inspections | | | Cleaning | | | | | |
|-----------------------------|---------------|---------------|----------------------|--|---|-----------------------------|---------------|-------------------------|--------------|-------------------------------------|-----------------|
| | | | CBs in Anacostia CSS | Total Anacostia CBs Inspected Once this Year | Total Anacostia CBs Inspected Twice this Year | CBs Cleaned Thru Last Month | | CB's Cleaned this Month | | Total CBs Cleaned This Year to Date | |
| | | | | | | Total | In CSS | Total | In CSS | Total | In CSS |
| 1 | 1,591 | 1,568 | 734 | 734 | 734 | 2048 | 1758 | 156 | 93 | 2204 | 1851 |
| 2 | 4,714 | 4,112 | 2,316 | 2316 | 840 | 2837 | 2204 | 1849 | 1276 | 4686 | 3480 |
| 3 | 3,555 | 461 | - | 0 | 0 | 5002 | 654 | 403 | 113 | 5405 | 767 |
| 4 | 2,782 | 1,985 | 159 | 159 | 159 | 4427 | 2704 | 175 | 70 | 4602 | 2774 |
| 5 | 2,167 | 1,035 | 1,035 | 1035 | 964 | 3218 | 1854 | 145 | 145 | 3363 | 1999 |
| 6 | 1,783 | 1,594 | 1,594 | 892 | 55 | 787 | 681 | 258 | 211 | 1045 | 892 |
| 7 | 2,313 | - | - | 0 | 0 | 2402 | 0 | 236 | 0 | 2638 | 0 |
| 8 | 1,278 | 116 | 116 | 116 | 116 | 767 | 357 | 62 | 33 | 829 | 390 |
| WASA Subtotal | 20,183 | 10,871 | 5,954 | 5,252 | 2,868 | 21,488 | 10,212 | 3,284 | 1,941 | 24,772 | 12,153 |
| DDOT (via VMS) Subtotal | | | | | | | | | | | |
| Grand Total | 20,183 | 10,871 | 5,954 | 5,252 | 2,868 | | | 3,284 | 1,941 | 24,772 | 12,153 |
| % Cleaned/Inspected to Date | | | | 88% | 48% | | | | | >100% | >100% |

3.2 BMP Demonstration Projects

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

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

Table 3-2
BMP Demonstration Projects – Report

| <i>Facility</i> | <i>Date Inspected</i> | <i>Condition</i> | <i>Work Needed</i> | <i>Work performed</i> | <i>Material Removed (CY)</i> |
|------------------------|-----------------------|------------------|--------------------|-----------------------|------------------------------|
| Netting System CSO 018 | 8/21/2013 | Good | Replace nets | Replaced nets | 350 lbs. |
| Bar Rack CSO 040 | 8/5/2013 | Good | None | Routine Cleaning | (1) |
| Bar Rack CSO 041 | 8/6/2013 | Good | None | Routine Cleaning | (1) |

Notes:

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

3.3 Anacostia River Floating Debris Removal Program

This program was initiated in October 1992 to remove floating debris from Anacostia and Potomac Rivers on a routine basis. The program has continued from that time and is now under the auspices of DC WATER, Department of Sewer Services. The floating debris removal program utilizes a skimmer boat and support boats to remove floatable debris from the Rivers as well as trash, which accumulates on the riverbanks and in the mud flats at low tides. Work for the most part is directed toward the Anacostia River. The boats pick up debris five days a week. Operations are summarized as follows:

**Table 3-3
Anacostia River Floating Debris Removal Program – Summary**

| | |
|-----------------------------------|--|
| <i>Program Operation</i> | 5-day work week, excluding holidays, weather permitting |
| <i>Work Days this month:</i> | 22 |
| <i>Days not Operating</i> | 6 |
| <i>Reason not Operating</i> | High winds, low tide, and PM/repair service. |
| <i># Skimmer in Fleet</i> | 3 Skimmers |
| <i># Skimmers Out of Service</i> | 2 Skimmers |
| <i>Dates</i> | B28: 8/1 - 8/31 B29: 8/1 - 8/31 B32: 8/13 - 8/15 and 8/19 - 8/20 |
| <i>Reason</i> | B28: Loading screen jammed. B29: Port and starboard propulsion pods leaking hydraulic oil. B32: Fleet working on hydraulic rams. |
| <i>Plan to Restore to Service</i> | B28: Send to Gates Marina for repairs within 30 days. B29: Receive from Gates Marina within 30 days. B32: Cleared by Fleet for operation on 8/16 and 8/23. |
| <i>Volume Material Collected</i> | 20 ton. |
| <i>Nature of Material</i> | Bottles, cans, natural debris and plastics. |

3.4 CSS Litter Control

This section describes DC WATER’s efforts to coordinate litter control efforts with the National Park Service and D.C. Department of Public Works to maximize litter control efforts in the combined sewer system.

Status: no activities this month.

4. MONITORING

4.1 Condition Report Bar Racks at Main and O Street Storm Pumps

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

**Table 4-1
Bar Racks at Main & O Street Pumping Stations**

Inspector: Claude Price

| Pumping Station | Inspector | Date Inspected | Condition | | Work Needed | Work Performed or Schedule for Completion |
|---|-----------|----------------|-----------|------------|-------------|---|
| | | | Good | Needs Work | | |
| Bar Racks at O Street Storm Pumps (CSO 010) | CP | 8/15 | X | | | |
| Bar Racks at Main Storm Pumps (CSO 011) | CP | 8/15 | X | | | |

4.2 Rain Data

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

| Date | Brentwood Reservoir | Bryant St PS | Main PS | Rock Creek PS |
|-----------|---------------------|--------------|---------|---------------|
| 8/1/2013 | 0.30 | 0.3 | 0.34 | 0.37 |
| 8/2/2013 | 0 | 0 | 0 | 0 |
| 8/3/2013 | 0.04 | 0.04 | 0.06 | 0.1 |
| 8/4/2013 | 0.01 | 0.01 | 0 | 0 |
| 8/5/2013 | 0 | 0 | 0 | 0 |
| 8/6/2013 | 0.15 | 0.15 | 0.04 | 0.06 |
| 8/7/2013 | 0 | 0 | 0 | 0 |
| 8/8/2013 | 0 | 0 | 0 | 0 |
| 8/9/2013 | 0 | 0 | 0 | 0 |
| 8/10/2013 | 0 | 0 | 0 | 0 |
| 8/11/2013 | 0 | 0 | 0 | 0 |
| 8/12/2013 | 0 | 0 | 0 | 0 |
| 8/13/2013 | 0.51 | 0.71 | 0.44 | 0.61 |
| 8/14/2013 | 0 | 0 | 0 | 0 |
| 8/15/2013 | 0 | 0 | 0 | 0 |
| 8/16/2013 | 0 | 0 | 0 | 0 |
| 8/17/2013 | 0 | 0 | 0 | 0 |
| 8/18/2013 | 0.05 | 0.05 | 0.15 | 0.08 |
| 8/19/2013 | 0 | 0 | 0 | 0 |
| 8/20/2013 | 0 | 0 | 0 | 0 |
| 8/21/2013 | 0.01 | 0.01 | 0.05 | 0.02 |
| 8/22/2013 | 0 | 0 | 0 | 0 |
| 8/23/2013 | 0.03 | 0.03 | 0.21 | 0.05 |
| 8/24/2013 | 0 | 0 | 0 | 0 |
| 8/25/2013 | 0 | 0 | 0 | 0 |
| 8/26/2013 | 0 | 0 | 0 | 0 |
| 8/27/2013 | 0.02 | 0 | 0 | 0 |
| 8/28/2013 | 0.01 | 0.02 | 0.21 | 0.13 |
| 8/29/2013 | 0 | 0 | 0 | 0 |
| 8/30/2013 | 0 | 0 | 0 | 0 |
| 8/31/2013 | 0 | 0 | 0 | 0 |
| TOTAL | 1.13 | 1.32 | 1.50 | 1.42 |



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

**Monthly Operations Report
For
Combined Sewer System
Month: September 2013**

Prepared By:
District of Columbia
Water and Sewer Authority
Department of Sewer Services
Washington, D.C. 20003

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

Monthly Operations Report for Combined Sewer System
Month: September 2013

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1. INTRODUCTION

The District of Columbia Water and Sewer Authority (DC Water) operates a wastewater collection system comprised of separate and combined sewers. Separate storm and sanitary sewers serve parts of the District. In the combined sewer system (CSS), there is a single sewer to convey storm water and sanitary wastes. The area served by combined sewers comprises about one-third of the District.

During dry weather, sanitary wastes collected in the CSS are conveyed to the DC Water's wastewater treatment plant at Blue Plains (BPWWTP or the Blue Plains WWTP). During periods of rainfall, the capacity of a combined sewer may be exceeded and the excess flow, which is a mixture of storm water and sanitary wastes, is discharged directly to the Anacostia River, Rock Creek or the Potomac River or their tributary waters. This report summarizes the operations of the operations of the combined sewer system for the month indicated.

2. OPERATION AND MAINTENANCE

2.1 Regulators

Regulators divert combined sewage to interceptors, which convey flow to BPWWTP for treatment. When flows exceed the capacities of the systems such as during significant rain events, regulators divert excess flow to CSO outfalls which discharge to receiving waters. The following table summarizes inspections of CSO regulators in the collection system.

**Table 2-1
Regulator Structures**

| Structure Number | Location | Associated NPDES Outfall | Date Inspected | Condition | | Work Needed | Work performed |
|------------------|--|--------------------------|----------------|-----------|------------|-------------|---------------------------------------|
| | | | | Good | Needs Work | | |
| 2 | Bolling AFB, 2250 ft. north of the south line of the Base, SW | 003 | 09/30/13 | * | | | |
| 4 | Bolling AFB, 2250 ft. north of the south line of the Base, SW | 003 | 09/30/13 | * | | | |
| 5 | Poplar Point Pumping Station | 004 | 09/10/13 | * | | | |
| 6 | Chicago Street and Railroad Ave, SE | 005 | 09/10/13 | * | | | |
| 7 | W Street and Railroad Ave, SE | 005 | 09/10/13 | * | | | |
| 8 ¹ | Good Hope Rd, west of Nichols Ave, SE | 006 | N/A | | | | |
| 9 | 13 th Street and Ridge Place, SE | 007 | 09/10/13 | * | | | |
| 11 | "O" Street Pumping Station | 011(a) | 09/25/13 | * | | | |
| 12 | Storm Pump Discharge at Main Pumping Station | 011 | 09/25/13 | * | | | |
| 13 | 2 nd Street, 300 ft. north of N Place, SE | 009 | 09/27/13 | * | | | |
| 14 | 2 nd Street, 250 ft. north of N Place, SE | 011(a) | 09/25/13 | * | | | |
| 15 | South Capitol and E Streets | 010 | 09/25/13 | * | | | |
| 15a | Half and L Streets, SE | 010 | 09/25/13 | * | | | |
| 15b | South Capitol and I Streets | 010 | 09/11/13 | * | | | |
| 15c | South Capitol and I Streets | 010 | 09/11/13 | * | | | |
| 16 | North of Main Sewage Pumping Station | 012 | 09/25/13 | * | | | |
| 17 | 4 th and N Streets, SE, Both Extended | 013 | N/A | * | | | Construction for Clean Rivers Project |
| 17a | K Street between 6 th Street and 7 th Street, SE | 013 | 09/27/13 | * | | | |
| 18 | 6 th and M Streets, SE | 014 | 09/09/13 | * | | | |
| 19 | 9 th and M Streets, SE | 015 | N/A | * | | | Construction for Clean Rivers Project |
| 19a | 9 th and M Streets, SE | 015 | N/A | * | | | Construction for Clean Rivers Project |
| 20 | 12 th and M Streets, SE | 016 | N/A | * | | | Construction for Clean Rivers Project |
| 20a | 12 th and M Streets, SE | 016 | N/A | * | | | Construction for Clean Rivers Project |
| 21 | 14 th and M Streets, SE | 017 | 09/11/13 | * | | | |
| 22a | Barney Circle and Pennsylvania Ave, SE | 018 | 09/30/13 | * | | | |
| 22b | Barney Circle and Pennsylvania Ave, SE | 018 | 09/30/13 | * | | | |

| Structure Number | Location | Associated NPDES Outfall | Date Inspected | Condition | | Work Needed | Work performed |
|------------------|--|--------------------------|----------------|-----------|------------|-------------|----------------|
| | | | | Good | Needs Work | | |
| 22c | Barney Circle and Pennsylvania Ave, SE | 018 | 09/30/13 | * | | | |
| 22d | Kentucky Ave and Potomac Street, SE | 018 | 09/30/13 | * | | | |
| 22e | 14 th Street and Kentucky Ave, SE | 018 | 09/30/13 | * | | | |
| 23 | Independence Ave, 21 st Street, SE, Extended | 019 | 09/20/13 | * | | | |
| 24a | East Capitol St, west of RFK stadium | 019 | 09/30/13 | * | | | |
| 28 | 21 st and Constitution Ave, NW | 020 | 09/10/13 | * | | | |
| 29 | 22 nd Street, between Constitution Ave and C St, NW | 020 | 09/10/13 | * | | | |
| 30 | 17 th and D Streets, NW | 020 | 09/10/13 | * | | | |
| 31 | 15 th Street and Pennsylvania Ave, NW | 020 | 09/10/13 | * | | | |
| 33 | 10 th and F Streets, NW | 020 | 09/10/13 | * | | | |
| 34 | 23 rd Street, north of Constitution Ave, NW | 020 | 09/25/13 | * | | | |
| 34a | 23 rd Street near C Street, NW | 020 | 09/10/13 | * | | | |
| 35 | Northeast of Roosevelt Bridge, NW | 021 | 09/10/13 | * | | | |
| 36 | 27 th and I Streets, NW | 022 | 09/10/13 | * | | | |
| 36a | New Hampshire Ave and Eye Street, NW | 022 | 09/17/13 | * | | | |
| 36b | 19 th and L Streets, NW | 022, 034 | 09/17/13 | * | | | |
| 36d | 17 th and L Streets, NW | 022, 034 | 09/17/13 | * | | | |
| 36g | 18 th and M Streets, NW | 022, 034 | 09/17/13 | * | | | |
| 36h | 18 th and M Streets, NW | 022, 034 | 09/10/13 | * | | | |
| 37 | 27 th and Eye Streets, NW | 022 | 09/09/13 | * | | | |
| 38 | 29 th and K Streets, NW | 024 | 09/24/13 | * | | | |
| 38a | 30 th Street, south of K Street, NW | 024 | 09/17/13 | * | | | |
| 39a | 30 th and K Streets, NW | 024 | 09/17/13 | * | | | |
| 39b | 30 th and K Streets, NW | 024 | 09/17/13 | * | | | |
| 41b | 31 st and K Streets, NW | 025 | 09/17/13 | * | | | |
| 41c | 31 st and K Streets, NW | 025 | 09/17/13 | * | | | |
| 42 | Wisconsin Ave and K Street, NW | 026 | 09/17/13 | * | | | |
| 43 | Potomac and Water Streets, NW | 027 | 09/17/13 | * | | | |
| 43a | Potomac and Water Streets, NW | 027 | 09/17/13 | * | | | |
| 44 | Water Street, west of Potomac St, NW | 027 | 09/17/13 | * | | | |
| 45 | 36 th and M Streets, NW | 028 | 09/09/13 | * | | | |
| 46 | Canal Rd, 1000ft. east of Foxhall Rd, NW | 029 | 09/09/13 | * | | | |

| Structure Number | Location | Associated NPDES Outfall | Date Inspected | Condition | | Work Needed | Work performed |
|------------------|--|--------------------------|----------------|-----------|------------|-------------|----------------|
| | | | | Good | Needs Work | | |
| 47 | 38 th Street and Reservoir Road, NW | 029 | 09/09/13 | * | | | |
| 47a | 37 th and T Streets, NW | 029 | 09/09/13 | * | | | |
| 47b | 37 th and T Streets, NW | 029 | 09/09/13 | * | | | |
| 47c | 38 th and W Streets, NW | 029 | 09/09/13 | * | | | |
| 49 ^l | Pennsylvania Ave, east side of Rock Creek, NW | 031 | N/A | | | | |
| 50 | 26 and M Streets, NW | 032 | 09/17/13 | * | | | |
| 51 | N Street Extended, west of 25 th Street, NW | 033 | 09/17/13 | * | | | |
| 52 | 22 nd Street between M and N Streets, NW | 034 | 09/25/13 | * | | | |
| 52a | N Street between 22 nd and 23 rd Streets, NW | 034 | 09/12/13 | * | | | |
| 53 | 22 nd and M Streets, NW | 022, 034 | 09/30/13 | * | | | |
| 53a | 22 nd and M Streets, NW | 022, 034 | 09/30/13 | * | | | |
| 53b | L Street between 21 st Street and New Hampshire Ave, NW | 022, 034 | 09/30/13 | * | | | |
| 53c | L and 22 nd Streets, NW | 022 | 09/23/13 | * | | | |
| 54 | 23 rd and O Streets, NW | 034 | 09/23/13 | * | | | |
| 55 | 22 nd Street, south of Q Street, NW | 035 | 09/23/13 | * | | | |
| 55a | 22 nd Street, south of Q Street, NW | 035 | 09/23/13 | * | | | |
| 56 | 23 rd and Massachusetts Ave, NW | 036 | 09/23/13 | * | | | |
| 57 | 23 rd Street, south of Q Street, NW | 036 | 09/23/13 | * | | | |
| 58 ^l | Northwest of Belmont Road and Rock Creek and Potomac Parkway, NW | 037 | N/A | | | | |
| 59 | North of Belmont Rd, east of Kalorama Cir, NW | 038 | 09/10/13 | * | | | |
| 60 | Connecticut Ave, east of Rock Creek, NW | 039 | 09/11/13 | * | | | |
| 61 | Biltmore St, Extended, east of Rock Creek, NW | 040 | 09/11/13 | * | | | |
| 62 | Ontario Rd, Extended, and Rock Creek Pkwy, NW | 041 | 09/18/13 | * | | | |
| 63 | Harvard Street and Rock Creek Parkway, NW | 042 | 09/18/13 | * | | | |
| 64 | Adams Mill Road, south of Irving Street, NW | 043 | 09/18/13 | * | | | |
| 65 | Kenyon Street and Adams Mill Road, NW | 044 | 09/18/13 | * | | | |
| 65a | Kenyon Street and Adams Mill Road, NW | 044 | 09/18/13 | * | | | |
| 66 | Adams Mill Road and Lamont Street, NW | 045 | 09/18/13 | * | | | |
| 67 | Park Rd , south of Piney Branch Pkwy, NW | 046 | 09/18/13 | * | | | |
| 68 | Ingleside Terrance, Extended and Piney Branch Parkway, NW | 047 | 09/18/13 | * | | | |
| 69 | Mt. Pleasant Street, Extended and Piney Branch Parkway, NW | 048 | 09/18/13 | * | | | |
| 70 | Piney Branch Parkway, west of 16 th Street, NW | 049 | 09/18/13 | * | | | |

| Structure Number | Location | Associated NPDES Outfall | Date Inspected | Condition | | Work Needed | Work performed |
|------------------|---|--------------------------|----------------|-----------|------------|-------------|----------------|
| | | | | Good | Needs Work | | |
| 70i | 5 th and Quackenbos Streets, NW | 049 | 09/09/13 | * | | | |
| 71 | 28 th Street, west of Rock Creek Parkway, NW | 050 | 09/23/13 | * | | | |
| 72 | Olive Street Extended and Rock Creek Pkwy, NW | 051 | 09/23/13 | * | | | |
| 72a | Olive Street Extended and Rock Creek Pkwy, NW | 051 | 09/23/13 | * | | | |
| 73 | O Street Extended and Rock Creek Parkway, NW | 052 | 09/23/13 | * | | | |
| 74 ¹ | Q Street, west of Rock Creek, NW | 053 | N/A | | | | |
| 75 | West side of Rock Creek, 300 ft. south of Massachusetts Ave, NW | 054 | 09/30/13 | * | | | |
| 77 | Normanstone Dr Extended, west of Rock Creek, NW | 056 | 09/30/13 | * | | | |
| 77a | Normanstone Dr and Normanstone Lane, NW | 056 | 09/30/13 | * | | | |
| 78 ¹ | 28th Street Extended, west of Rock Creek, NW | 057 | N/A | | | | |
| 79 ¹ | Connecticut Ave and Rock Creek Parkway, NW | 058 | N/A | | | | |
| 84 | 26 th and P Streets, NW | 060 | 09/23/13 | * | | | |
| 84a | 26 th and P Streets, NW | 060 | 09/23/13 | * | | | |

Notes:

1. Structure no longer functions as a combined sewer overflow regulator structure.
2. Where construction is indicated to be in progress at a regulator, the contractor maintains flow (i.e. prevents DWO) during construction by flow diversion, bypass pumping, fluming, sandbagging or other means.

2.2 Outfalls, Tide Gates and CSO Signs

The following table summarizes inspections, maintenance and work performed on outfall structures, tide gates and CSO signs in the collection system.

**Table 2-2
Outfalls and Tide Gates**

| NPDES Outfall | Location | Date Inspected | Outfall Condition | | Tide Gate Present? | | Tide Gate Condition | | CSO Sign | | Notes, Work Needed or Performed |
|------------------|---|-------------------|----------------------|---------------|-----------------------|----|------------------------|---------------|----------|---------------|---------------------------------|
| | | | OK | Needs Work | Yes | No | OK | Needs Work | OK | Needs Work | |
| 003 | Bolling Air Force Base, at Giavanolli and Chanute, SW | 09/30/13 | * | | * | | * | | * | | |
| 005 | Across from Navy Yard, aligned with Parsons Ave., SE | 09/30/13 | * | | * | | * | | * | | |
| 006 ¹ | Good Hope Road and Welsh Memorial Bridge | N/A | | | | | | | | | |
| 007 | Between 11 th St. and Anacostia Bridges, SE | 09/30/13 | * | | * | | * | | * | | |
| 009 | O St. Sewage Pumping Station, SE | 09/27/13 | * | | * | | * | | * | | |
| 010 | O St. Sewage Pumping Station, SE | 09/27/13 | * | | | * | | | * | | |
| 011 | Main Sewage Pumping Station, SE | 09/27/13 | * | | | * | | | * | | |
| 011(a) | Main Sewage Pumping Station, SE | 09/27/13 | * | | * | | * | | * | | |
| 012 | Main Sewage Pumping Station, SE | 09/27/13 | * | | * | | * | | * | | |
| 013 | Southeast Federal Center, aligned with 4 th St. | 09/10/13 | * | | * | | * | | * | | Under construction |
| 014 | Navy Yard, aligned with 6 th St., SE | 09/10/13 | * | | * | | * | | * | | |
| 015 | Navy Yard, aligned with 9th Street, SE | 09/10/13 | * | | | * | | | * | | |
| 016 | 12th and O Streets, SE | 09/10/13 | * | | * | | * | | * | | |
| 017 | M and Water Street, SE | 09/27/13 | * | | * | | * | | * | | |
| 018 | East of Barney Circle & South of Pennsylvania Avenue Bridge, SE | 09/27/13 | * | | * | | * | | * | | |
| 019 | Adjacent to Service Drive behind swirl facility & D.C. General Hospital | 09/25/13 | * | | | * | | | * | | |
| 020 | Rock Creek Parkway and Independence, NW | 09/27/13 | * | | * | | * | | * | | |
| 021 | Rock Creek Parkway and C St., NW | 09/27/13 | * | | | * | | | * | | |
| 022 | Rock Creek Parkway and G St., NW | 09/27/13 | * | | * | | * | | * | | |
| 024 | South of 30 th and K Streets, NW ¹ | 09/27/13 | * | | * | | | * | * | | |
| 025 | South of 31st and K Streets, NW | 09/27/13 | * | | * | | * | | * | | |
| 026 | Wisconsin Avenue and Water Street, NW | 09/27/13 | * | | * | | * | | * | | |
| 027 | 33 rd and Water Sts., NW | 09/27/13 | * | | | * | | | * | | |
| 028 | Key Bridge and Whitehurst Freeway, NW | 09/27/13 | * | | | * | | | * | | |
| 029 | Adjacent to C&O Canal, aligned with 38 th St. NW | 09/27/13 | * | | * | | * | | * | | |
| 031 ¹ | Rock Creek Pkwy & Pennsylvania Avenue, NW | N/A | | | | | | | | | |

| NPDES Outfall | Location | Date Inspected | Outfall Condition | | Tide Gate Present? | | Tide Gate Condition | | CSO Sign | | Notes, Work Needed or Performed |
|------------------|---|-------------------|----------------------|---------------|-----------------------|----|------------------------|---------------|----------|---------------|---------------------------------|
| | | | OK | Needs Work | Yes | No | OK | Needs Work | OK | Needs Work | |
| 032 | 26th and M Street, NW. | 09/17/13 | * | | | * | | | * | | |
| 033 | Across street from St. Francis Jr. High and aligned with N St., NW. | 09/17/13 | * | | * | | * | | * | | |
| 034 | Just west of St. Francis Jr. High and north of N St., NW | 09/23/13 | * | | * | | * | | * | | |
| 035 | P St. Bridge and Rock Creek Parkway | 09/12/13 | * | | * | | * | | * | | |
| 036 | 22nd Street, South of Q Street NW. | 09/12/13 | * | | * | | * | | * | | |
| 037 ¹ | Waterside Dr. and Rock Creek Parkway | N/A | | | | | | | | | |
| 038 | Between arch footbridge and Connecticut Ave., north of Kalorama Circle, NW. | 09/10/13 | * | | * | | * | | * | | |
| 039 | Connecticut Avenue Bridge and Rock Creek Parkway, NW. | 09/11/13 | * | | * | | * | | * | | |
| 040 | Aligned with Biltmore Rd., between Connecticut Ave and Ellington Bridge. | 09/11/13 | * | | * | | * | | * | | |
| 041 | Beach Dr. and Ontario Pl., NW | 09/30/13 | * | | * | | * | | * | | |
| 042 | Harvard St. and Beach Dr NW. | 09/30/13 | * | | * | | * | | * | | |
| 043 | Upstream of Harvard St. and Beach Dr NW. | 09/30/13 | * | | * | | * | | * | | |
| 044 | Kenyon Street and Beach Dr., NW. | 09/30/13 | * | | * | | * | | * | | |
| 045 | North of Beach Dr. and Walbridge Pl, NW. | 09/30/13 | * | | * | | * | | * | | |
| 046 | Piney Branch Parkway and Park Road, NW. | 09/18/13 | * | | * | | * | | * | | |
| 047 | Piney Branch Parkway and Ingleside Terrace | 09/30/13 | * | | * | | * | | * | | |
| 048 | South of Piney Branch Parkway and 17 th St. | 09/30/13 | * | | * | | * | | * | | |
| 049 | North of Piney Branch Parkway and 17 th St. | 09/30/13 | * | | * | | * | | * | | |
| 050 | Rock Creek Parkway and L St., NW | 09/19/13 | * | | * | | * | | * | | |
| 051 | Across Rock Creek Pkwy, aligned with Olive St., NW. | 09/19/13 | * | | * | | * | | * | | |
| 052 ¹ | Between P & Penna. Ave Bridges, aligned with O Street, NW. | N/A | | | | | | | | | |
| 053 | Q St. Bridge and Rock Creek Parkway, NW. | 09/30/13 | * | | * | | * | | * | | |
| 054 | Massachusetts Ave & Rock Creek Parkway, NW. | 09/30/13 | * | | * | | * | | * | | |
| 056 ¹ | Normanstone Dr. and Rock Creek Parkway, NW. | N/A | | | | | | | | | |
| 057 ¹ | 28th Street and Rock Creek Parkway, NW | N/A | | | | | | | | | |
| 058 | Connecticut Ave & Rock Creek Parkway, NW. | 09/30/13 | * | | * | | * | | * | | |
| 060 | North of P St. Bridge & Rock Creek Pkwy, NW | 09/30/13 | * | | * | | * | | * | | |

Notes:

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

2.3 Pumping Stations

Pumping station operations are summarized in the table below.

**Table 2-3
Pumping Stations – Inspections and Equipment in Service**

| <i>Pumping Station</i> | <i>No. of Inspections</i> | <i>No. Screens</i> | <i>No. Pumps</i> | <i>Screens or Pumps Out of Service</i> | <i>Dates</i> | <i>Reason</i> | <i>Schedule to Restore to Service¹</i> |
|------------------------|---------------------------|--------------------|------------------|--|----------------|-----------------------|---|
| Main | 30 | 4 | 10 | #1 Sanitary Pump | September 1-30 | Pump being rehabbed | December 2013 |
| Eastside | 26 | 2 | 4 | #2 Sanitary Pump | September 1-30 | Pump being rehabbed | November 2013 |
| Poplar Point | 26 | 2 | 3 | #1 Screen | September 1-30 | Screen being rehabbed | November 2013 |
| | | | | #3 Screen | September 1-30 | Screen being rehabbed | November 2013 |
| Potomac | 30 | 4 | 5 | #1 Sanitary Pump | September 1-30 | Pump being rehabbed | October 2013 |

Notes:

1. The schedule to restore to service is impacted by the type and age of equipment. In some cases, the condition of equipment and the lack of availability of replacement parts necessitate complete replacement of the unit or element or custom fabrication of needed parts to return the units to service. For these and other reasons, projects are underway for the rehabilitation of the pumping stations.

**Table 2-4
Pumping Stations – Preventive Maintenance**

| <i>Pumping Station</i> | <i>Date Performed</i> | <i>Type of Preventive Maintenance Performed¹</i> | <i>Comments</i> |
|------------------------|-----------------------|---|---|
| Main | 9/29/2013 | Group A | Add oil, grease bearings and replace packing if needed. |
| O St | 9/29/2013 | Group A | Add oil, grease bearings and replace packing if needed. |
| Eastside | 9/29/2013 | Group A | Add oil, grease bearings and replace packing if needed. |
| Poplar Point | 9/29/2013 | Group A | Add oil, grease bearings and replace packing if needed. |
| Potomac | 9/29/2013 | Group A | Add oil, grease bearings and replace packing if needed. |
| Rock Creek | 9/29/2013 | Group A | Add oil, grease bearings and replace packing if needed. |
| Upper Anacostia | 9/29/2013 | Group A | Add oil, grease bearings and replace packing if needed. |
| Earle Place | 9/29/2013 | Group A | Add oil, grease bearings and replace packing if needed. |

Notes:

1. Group A consists of:

- Exercise bar screens
- Exercise all sump pumps
- Drain condensation from air compressor storage tank
- Check depth of screening in the screen room and schedule Vactor truck as required
- Check all safety equipment
- Issue work order requests as required

**Table 2-5
Pumping Stations – Pumpage**

| <i>Pumping Station</i> | <i>Sanitary Pumpage</i> | | <i>Storm Water/CSO Pumped To Anacostia River</i> | | |
|------------------------|------------------------------|--------------------------------------|--|--------------------|---|
| | <i>Total Wastewater (mg)</i> | <i>Daily Average Wastewater (mg)</i> | <i>Date</i> | <i>Volume (mg)</i> | <i>Screenings Collected (units)¹</i> |
| Main | 1,397.20 | 46.57 | N/A | N/A | N/A |
| O St | 173.00 | 5.77 | N/A | N/A | Normal |
| Eastside | 343.31 | 11.44 | N/A | N/A | N/A |
| Poplar Point | 661.14 | 22.04 | N/A | N/A | N/A |
| Potomac | 3,149.30 | 104.98 | N/A | N/A | N/A |
| Rock Creek | 155.00 | 5.17 | N/A | N/A | N/A |
| Upper Anacostia | 147.92 | 4.93 | N/A | N/A | N/A |
| Earle Place | 0.15 | 0.00 | N/A | N/A | N/A |

Notes:

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

2.4 Northeast Boundary Swirl Facility

The Northeast Boundary Swirl Facility provides screening, swirl concentration, chlorination and dechlorination of CSO overflow from CSO 019. The capacity of the facility is 400 MGD. Facility operations are summarized below:

Table 2-6
Northeast Boundary Swirl Facility – Inspections and Equipment in Service

| <i>Date Inspected</i> | <i># of Screens</i> | <i># of Swirls</i> | <i>Screens or Swirls Out of Service</i> | <i>Dates</i> | <i>Reason</i> | <i>Schedule to Restore to Service</i> |
|-----------------------|---------------------|--------------------|---|--------------|---------------|---------------------------------------|
| 9/20/2013 | 1, 2 & 3 | 1, 2 & 3 | None | N/A | N/A | N/A |

**Table 2-7
Northeast Boundary Swirl Facility – Preventive Maintenance**

| <i>Date Performed</i> | <i>Type of Preventive Maintenance Performed¹</i> | <i>Comments</i> |
|-----------------------|---|-----------------|
| 9/20/13 | Group A | |

Notes:

1. Group A consists of:
 Exercise bar screens
 Exercise wash down system
 Exercise knife gates full travel both directions
 Check depth of grit in grit channel and schedule Vector truck as required
 Change chart paper on strip chart recorders at the end of each month
 Thoroughly clean each Swirl tank and channels
 Issue work order requests as required
 Drain condensation from air compress
 Check all safety equipment

**Table 2-8
Northeast Boundary Swirl Facility – Wet Weather Operations**

| <i>Date</i> | <i>Approx. Storm Duration (hrs)¹</i> | <i>Total Influent Volume (mg)</i> | <i>Total Foul Sewer Volume (mg)</i> | <i>Total Effluent Volume (mg)¹</i> | <i>Approx. Screenings Volume (Cu. ft)</i> |
|-------------|---|-----------------------------------|-------------------------------------|---|---|
| 9/12/2013 | 8 | 13.9 | 13.9 | 0.0 | 80.0 |
| 9/13/2013 | 4 | 0.4 | 0.4 | 0.0 | 12.0 |
| 9/21/2013 | 7 | 19.7 | 19.7 | 0.0 | 80.0 |
| 9/22/2013 | 4 | 2.4 | 2.4 | 0.0 | 80.0 |

Note:

1. Approx. length of time influent flow rate was above the 15 mgd threshold for allowing flow through the facility.

Chlorination/Dechlorination Systems.

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

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

**Table 2-9
Northeast Boundary Swirl Facility – Disinfection Performance**

| <i>Date</i> | <i>Chlor/ Dechlor System Used?</i> | <i>Dosages</i> | | <i>Residual Chlorine Test Results</i> | | <i>E. Coli Test Results</i> | |
|-------------|--|-------------------------|-------------------------------------|---|-------------------------|------------------------------|--------------------------------|
| | | <i>NaOCl (mg/l)</i> | <i>NaHSO₃ (mg/l)</i> | <i>Location</i> | <i>Conc. (mg/l)</i> | <i>Site</i> | <i>Count Per 100ml</i> |
| N/A | Yes | 5 | 2 | Mix Chamber | | Mix Chamber | |
| | | | | Anacostia River ¹ | | Anacostia River ¹ | |

Notes:

1. River: River Outfall

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

| <i>Date</i> | <i>Flow Composited Sample Results</i> | | | | | | |
|-------------|---------------------------------------|--|--|--|------------------------------|--------------------------------|---|
| | <i>Total suspended solids (mg/L)</i> | <i>Nitrite (NO₂-N) mg/L</i> | <i>Nitrate (NO₃-N) mg/L</i> | <i>Total Kjeldahl Nitrogen (mg/L as N)</i> | <i>Total Nitrogen (mg/L)</i> | <i>Total Phosphorus (mg/L)</i> | <i>Carbonaceous Biological Oxygen Demand (mg/L)</i> |
| N/A | | | | | | | |

2.5 Inflatable Dams

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

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

| <i>Inflatable Dam Structure No</i> | <i>Date Inspected</i> | <i>Was Dam Out of Service During the Month?</i> | <i>Dates out of Service</i> | <i>Reason</i> | <i>Schedule to Restore to Service</i> |
|--|-----------------------|---|-----------------------------|---------------|---|
| 14 - East | 9/26/2013 | No | N/A | N/A | N/A |
| 14 - West | 9/26/2013 | No | N/A | N/A | N/A |
| 15 | 9/26/2013 | No | N/A | N/A | N/A |
| 15A | 9/26/2013 | No | N/A | N/A | N/A |
| 16 - East | 9/26/2013 | No | N/A | N/A | N/A |
| 16 - West | 9/26/2013 | No | N/A | N/A | N/A |
| 24 - North | 9/26/2013 | No | N/A | N/A | N/A |
| 24 - Middle | 9/26/2013 | No | N/A | N/A | N/A |
| 24 - South | 9/26/2013 | No | N/A | N/A | N/A |
| 34 | 9/26/2013 | No | N/A | N/A | N/A |
| 35 | 9/26/2013 | No | N/A | N/A | N/A |
| 52 | 9/26/2013 | No | N/A | N/A | N/A |

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

| <i>Inflatable Dam Structure No.</i> | <i>Overflow Dates</i> | <i>Estimated Duration of Overflow</i> |
|-------------------------------------|---------------------------|--|
| 14 (E & W) | None | N/A |
| 15 | 9/12 | 4 mins |
| | 9/21 | 48 mins |
| | 9/22 | 3 mins |
| 15A | 9/21 | 1 hr, 9 mins |
| | 9/22 | 1 hr, 2 mins |
| 16 (E & W) | 9/21 | 1 hr, 52 mins |
| 24 | 9/12 | 14 mins |
| | 9/21 | 17 mins |
| 34 | 9/12 | 14 mins |
| | 9/21 | 5 mins |
| 35 | 9/12 | 18 mins |
| | 9/21 | 15 mins |
| 52 | None | N/A |
| | | |
| <i>Structures on Outfall Sewers</i> | <i>Overflow Dates</i> | <i>Estimated Duration of Overflow</i> |
| Outfall Structure 1 | None | This structure has been bulk headed. Overflows are no longer possible. |
| Outfall Structure 1A | None | This structure has been bulk headed. Overflows are no longer possible. |
| Outfall Structure 2 | None | None |
| | | |
| <i>Outfall Sewer Control Gates</i> | <i>Operational Status</i> | <i>Position</i> |
| Outfall Sewer Control Gate No. 1 | Operational | Open |
| Outfall Sewer Control Gate No.2 | Operational | Open |

3. DRY WEATHER OVERFLOWS

There was no dry weather combined sewer overflow during September 2013.

SOLIDS AND FLOATABLES CONTROL

3.1 Catch Basin Cleaning

The following tables summarize catch basin cleaning in the Anacostia CSO area and in the entire sewer system:

| Ward | Total CBs | CBs in CSS | Inspections | | | Cleaning | | | | | |
|-----------------------------|---------------|---------------|----------------------|--|---|-----------------------------|---------------|-------------------------|-------------|-------------------------------------|-----------------|
| | | | CBs in Anacostia CSS | Total Anacostia CBs Inspected Once this Year | Total Anacostia CBs Inspected Twice this Year | CBs Cleaned Thru Last Month | | CB's Cleaned This Month | | Total CBs Cleaned This Year to Date | |
| | | | | | | Total | In CSS | Total | In CSS | Total | In CSS |
| 1 | 1,591 | 1,568 | 734 | 734 | 734 | 2204 | 1851 | 110 | 84 | 2314 | 1935 |
| 2 | 4,714 | 4,112 | 2,316 | 2316 | 1349 | 4686 | 3480 | 840 | 509 | 5526 | 3989 |
| 3 | 3,555 | 461 | - | 0 | 0 | 5405 | 767 | 130 | 0 | 5535 | 767 |
| 4 | 2,782 | 1,985 | 159 | 159 | 159 | 4602 | 2774 | 0 | 0 | 4602 | 2774 |
| 5 | 2,167 | 1,035 | 1,035 | 1035 | 1035 | 3363 | 1999 | 1176 | 637 | 4539 | 2636 |
| 6 | 1,783 | 1,594 | 1,594 | 1497 | 478 | 1045 | 892 | 1084 | 605 | 2129 | 1497 |
| 7 | 2,313 | - | - | 0 | 0 | 2638 | 0 | 134 | 0 | 2772 | 0 |
| 8 | 1,278 | 116 | 116 | 116 | 116 | 829 | 390 | 0 | 0 | 829 | 390 |
| WASA Subtotal | 20,183 | 10,871 | 5,954 | 5,857 | 3,871 | 24,772 | 12,153 | 3474 | 1835 | 28,246 | 13,988 |
| DDOT (via VMS) Subtotal | | | | | | | | | | | |
| Grand Total | 20,183 | 10,871 | 5,954 | 5,857 | 3,871 | | | 3474 | 1835 | 28,246 | 13,988 |
| % Cleaned/Inspected to Date | | | | 98% | 65% | | | | | >100% | >100% |

3.2 BMP Demonstration Projects

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

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

**Table 3-2
BMP Demonstration Projects – Report**

| <i>Facility</i> | <i>Date Inspected</i> | <i>Condition</i> | <i>Work Needed</i> | <i>Work performed</i> | <i>Material Removed (CY)</i> |
|------------------------|-----------------------|------------------|--------------------|-----------------------|------------------------------|
| Netting System CSO 018 | 9/26/2013 | Good | Replace nets | Replaced nets | 125 pounds |
| Bar Rack CSO 040 | 9/11/2013 | Good | None | Routine Cleaning | (1) |
| Bar Rack CSO 041 | 9/30/2013 | Good | None | Routine Cleaning | (1) |

Notes:

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

3.3 Anacostia River Floating Debris Removal Program

This program was initiated in October 1992 to remove floating debris from Anacostia and Potomac Rivers on a routine basis. The program has continued from that time and is now under the auspices of DC WATER, Department of Sewer Services. The floating debris removal program utilizes a skimmer boat and support boats to remove floatable debris from the Rivers as well as trash, which accumulates on the riverbanks and in the mud flats at low tides. Work for the most part is directed toward the Anacostia River. The boats pick up debris five days a week. Operations are summarized as follows:

**Table 3-3
Anacostia River Floating Debris Removal Program – Summary**

| | |
|-----------------------------------|---|
| <i>Program Operation</i> | 5-day work week, excluding holidays, weather permitting |
| <i>Work Days this month:</i> | 20 |
| <i>Days not Operating</i> | 5 |
| <i>Reason not Operating</i> | High winds, low tide, and PM/repair service. |
| <i># Skimmer in Fleet</i> | 3 Skimmers |
| <i># Skimmers Out of Service</i> | 2 Skimmers |
| <i>Dates</i> | B28: 9/1 - 9/30 B29: 9/1 - 9/30 |
| <i>Reason</i> | B28: Loading screen jammed. B29: Front assembly binding. |
| <i>Plan to Restore to Service</i> | B28: At Gates Marine for repairs ETR unknown. B29: Gates Marine troubleshooting. ETR mid October 2013. |
| <i>Volume Material Collected</i> | 10 tons. |
| <i>Nature of Material</i> | Bottles, cans, natural debris and plastics. |

3.4 CSS Litter Control

This section describes DC WATER’s efforts to coordinate litter control efforts with the National Park Service and D.C. Department of Public Works to maximize litter control efforts in the combined sewer system.

Status: no activities this month.

4. MONITORING

4.1 Condition Report Bar Racks at Main and O Street Storm Pumps

DC Water performs visual surveys of the bar racks at Main and O Street Pumping Stations to characterize the quantity and nature of floatable discharge. The physical condition of the bar racks and any maintenance requirements are also noted.

**Table 4-1
Bar Racks at Main & O Street Pumping Stations**

Inspector: Claude Price

| Pumping Station | Inspector | Date Inspected | Condition | | Work Needed | Work Performed or Schedule for Completion |
|---|-----------|----------------|-----------|------------|-------------|---|
| | | | Good | Needs Work | | |
| Bar Racks at O Street Storm Pumps (CSO 010) | CP | 9/18 | X | | | |
| Bar Racks at Main Storm Pumps (CSO 011) | CP | 9/18 | X | | | |

4.2 Rain Data

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

| Date | Brentwood Reservoir | Bryant St PS | Main PS | Rock Creek PS |
|-----------|---------------------|--------------|---------|---------------|
| 9/1/2013 | 0 | 0 | 0 | 0 |
| 9/2/2013 | 0.05 | 0.04 | 0.1 | 0.06 |
| 9/3/2013 | 0 | 0 | 0 | 0 |
| 9/4/2013 | 0 | 0 | 0 | 0 |
| 9/5/2013 | 0 | 0 | 0 | 0 |
| 9/6/2013 | 0 | 0 | 0 | 0 |
| 9/7/2013 | 0 | 0 | 0 | 0 |
| 9/8/2013 | 0 | 0 | 0 | 0 |
| 9/9/2013 | 0 | 0 | 0 | 0 |
| 9/10/2013 | 0 | 0 | 0 | 0 |
| 9/11/2013 | 0 | 0 | 0 | 0 |
| 9/12/2013 | 0.38 | 0.44 | 0.16 | 0.49 |
| 9/13/2013 | 0 | 0.02 | 0 | 0 |
| 9/14/2013 | 0 | 0 | 0 | 0 |
| 9/15/2013 | 0 | 0 | 0 | 0 |
| 9/16/2013 | 0.01 | 0 | 0.02 | 0.01 |
| 9/17/2013 | 0 | 0 | 0 | 0 |
| 9/18/2013 | 0 | 0 | 0 | 0 |
| 9/19/2013 | 0 | 0 | 0 | 0 |
| 9/20/2013 | 0 | 0 | 0 | 0 |
| 9/21/2013 | 0.82 | 0.11 | 0.77 | 1.02 |
| 9/22/2013 | 0 | 0.18 | 0 | 0 |
| 9/23/2013 | 0 | 0.19 | 0 | 0 |
| 9/24/2013 | 0 | 0.06 | 0 | 0 |
| 9/25/2013 | 0 | 0.01 | 0 | 0 |
| 9/26/2013 | 0 | 0 | 0 | 0 |
| 9/27/2013 | 0 | 0 | 0 | 0 |
| 9/28/2013 | 0 | 0 | 0 | 0 |
| 9/29/2013 | 0 | 0 | 0 | 0 |
| 9/30/2013 | 0 | 0 | 0 | 0 |
| TOTAL | 1.26 | 1.05 | 1.05 | 1.58 |

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results
Period: July, August, and September 2013

SCENARIO: Y2013_Q3, produced October 4, 2013

| NPDES No. | Description | Number of Overflows (Occurrences) | CSO Overflow Volume (mg) | Total Duration of Overflow (hrs) | Avg Duration of Overflow (hrs) | Maximum Duration of Overflow (hrs) | Minimum Duration of Overflow (hrs) | |
|-----------------------|---|-----------------------------------|--------------------------|----------------------------------|--------------------------------|------------------------------------|------------------------------------|--|
| Anacostia CSOs | | | | | | | | |
| 005 | Chicago St and Railroad Station SE | 12 | 1.52 | 22.00 | 1.83 | 6.75 | 0.25 | |
| 006 | Good Hope Road, West of Nichols Ave., SE | separated | | | | | | |
| 007 | 13 th Street and Ridge Place, SE | 6 | 1.24 | 5.00 | 0.83 | 2.75 | 0.25 | |
| 009 | 2nd Street, 300 feet North of N Place, SE | 5 | 0.59 | 4.25 | 0.85 | 2.50 | 0.25 | |
| 010 | O Street Sewage Pumping Station, SE (pumped Overflow) | 4 | 20.10 | 4.75 | 1.19 | 3.75 | 0.25 | |
| 011 | South of Main Sewage Pumping Station, SE (pumped overflow) | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 011a | South of Main Sewage Pumping Station, SE (gravity overflow) | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 012 | North of Main Sewage Pumping Station, SE (Tiber Creek) | 1 | 2.75 | 1.50 | 1.50 | 1.50 | 1.50 | |
| 013 | 4th and N Streets, SE | 7 | 1.04 | 6.75 | 0.96 | 4.25 | 0.25 | |
| 014 | 6th and M Streets, SE | 5 | 1.81 | 7.25 | 1.45 | 3.75 | 0.25 | |
| 015 | 9th and M Streets, SE | 5 | 0.24 | 4.75 | 0.95 | 2.25 | 0.50 | |
| 016 | 12th and M Streets, SE | 4 | 1.25 | 4.00 | 1.00 | 2.50 | 0.25 | |
| 017 | 14th and M Streets, SE | 8 | 3.60 | 18.50 | 2.31 | 7.25 | 0.75 | |
| 018 | Barney Circle and Pennsylvania Ave, SE | 6 | 1.83 | 6.50 | 1.08 | 3.25 | 0.25 | |
| 019 | Northeast Boundary - Swirl Effluent | 6 | 56.19 | 21.75 | 3.63 | 7.00 | 0.75 | |
| 019 | Northeast Bound. - Swirl Bypass | 2 | 10.97 | 1.75 | 0.88 | 1.50 | 0.25 | |
| | SUBTOTAL | | 103.15 | | | | | |
| Potomac CSOs | | | | | | | | |
| 003 | Bolling AFB | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 020 | 23rd Street, North of Constitution Ave, NW (Easby Point) | 3 | 4.49 | 4.50 | 1.50 | 3.25 | 0.50 | |
| 021 | Northeast of Roosevelt Bridge, NW | 4 | 35.83 | 6.25 | 1.56 | 3.25 | 0.50 | |
| 022 | 27th and K Streets, NW | 10 | 2.16 | 10.75 | 1.08 | 3.75 | 0.25 | |
| 024 | 30th and K Streets, NW | 7 | 3.73 | 8.75 | 1.25 | 4.25 | 0.25 | |
| 025 | 31st & K St NW | 4 | 0.18 | 2.50 | 0.63 | 1.50 | 0.25 | |
| 026 | Wisconsin Avenue and K St., NW | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 027 | Water Street West of Street, NW | 34 | 46.00 | 213.50 | 6.28 | 35.25 | 0.25 | |
| 028 | 36th and M Streets, NW | 30 | 11.08 | 81.00 | 2.70 | 17.25 | 0.25 | |
| 029 | Canal Road 1000 feet east of Rock Creek, NW | 11 | 13.89 | 25.25 | 2.30 | 9.50 | 0.25 | |
| | SUBTOTAL | | 117.36 | | | | | |
| Rock Creek | | | | | | | | |
| 031 | Pennsylvania Avenue, East Rock Creek, NW | separated | | | | | | |
| 032 | 26th and M Streets, NW | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 033 | N Street extended west of 25th Street, NW | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 034 | 23rd and O Streets, SW | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 035 | 22nd Street south of Q Street, NW | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 036 | 22nd Street South of Q Street, NW | 15 | 1.140 | 41.75 | 2.78 | 14.50 | 0.25 | |
| 037 | Northwest of Belmont and Rock Creek and Potomac Parkway | separated | | | | | | |
| 038 | North of Belmont Road, east of Kalorama Circle, NW | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 039 | Connecticut Avenue east of Rock Creek, NW | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 040 | Biltmore Street extended east of Rock Creek, NW | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 041 | Ontario extended and Rock Creek Parkway | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

District of Columbia Water and Sewer Authority

Combined Sewer System Model Results
Period: July, August, and September 2013

SCENARIO: Y2013_Q3, produced October 4, 2013

| NPDES No. | Description | Number of Overflows (Occurrences) | CSO Overflow Volume (mg) | Total Duration of Overflow (hrs) | Avg Duration of Overflow (hrs) | Maximum Duration of Overflow (hrs) | Minimum Duration of Overflow (hrs) | |
|-----------|---|-----------------------------------|--------------------------|----------------------------------|--------------------------------|------------------------------------|------------------------------------|--|
| 042 | Harvard Street and RockCreek Parkway, NW | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 043 | Adams Mill Road South of Irving Street, NW | 2 | 0.21 | 0.75 | 0.38 | 0.50 | 0.25 | |
| 044 | Kenyon Street and Adams Mill Road, NW | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 045 | Adams Mill Road and Lamont Street, NW | 1 | 0.00 | 0.25 | 0.25 | 0.25 | 0.25 | |
| 046 | Park Road south of Piney Branch Parkway, NW | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 047 | Ingleside Terrace extended and Piney Branch Parkway | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 048 | Mt. Pleasant Street extended and Piney Branch Parkway | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 049 | Piney Branch and LamontStreet, NW | 17 | 68.421 | 60.50 | 3.56 | 17.50 | 0.25 | |
| 050 | 28th Street west of 16th Street, NW | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 051 | Olive Street extended and Rock Creek Parkway, NW | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 052 | O Street extended and Rock Creek Parkway, NW | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 053 | O Street west of Rock Creek Parkway, NW | separated | | | | | | |
| 054 | West Side of Rock Creek300 ft. south of Mass. Ave, NW | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 056 | Normanstone Drive extended west of Rock Creek, NW | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 057 | 28th Street extended west of Rock Creek, NW | 12 | 16.07 | 47.00 | 3.92 | 19.50 | 0.25 | |
| 058 | Connecticut Avenue and Rock Creek Parkway, NW | separated | | | | | | |
| 060 | P St and 26 th St, NW | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | SUBTOTAL | | 85.84 | | | | | |
| | TOTAL | | 306.35 | | | | | |

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