

Sanitary Sewer Overflow Report for 2011

| Incident Number | Incident Date | Site Name | Site Address | Responsible Party | Description of Incident | Total Overflow Amount (gallons) | Amount Reaching State Waters (gallons) |
|---------------------|---------------|----------------------------|-----------------------------|----------------------|---|---------------------------------|--|
| SSORS#2011-T-102950 | 1/28/2011 | road | Elm Avenue & Botetourt Road | HRSD | Contractor was relining gravity pipe. A subcontractor was pumping sewage from a manhole and discharging to a downstream manhole as part of the operation. After the vacor truck was filled and moved from manhole, it was observed that the suction/discharge line was not secured and releasing sewage along the roadway. Truck driver was flagged down after travelling approximately 700 feet. | 400 | 200 |
| SSORS#2011-T-102996 | 3/18/2011 | Pump Station 39 | 237 Colony rd. NN Va | City of Newport News | By-pass stand valve failure. Valve broke while being exercised. | 4,200 | 4,200 |
| SSORS#2011-T-103036 | 4/14/2011 | Gravity line | 633 41st Street | HRSD | Failure of temporary gravity line connection installed by contractor. This caused a section of 24-inch gravity main to be displaced and water filled the bottom of the excavation prior to continuing to flow into the downstream gravity line. The water level in the trench varied with the pump cycles from upstream pump stations. | -1 | -1 |
| SSORS#2011-T-103040 | 4/19/2011 | LAKESHORE DR AND ASTRO DR | 4 LINDA DR | City of Newport News | CROSS CONNECTION WHERE THE SEWER PIPE AND THE STORM DRAIN INTERSECT NEXT TO THE MAN HOLE ARE LEAKING. WE WILL TV THIS AND REPAIR ASAP. | 450 | 400 |
| SSORS#2012-T-103096 | 7/6/2011 | Center Avenue Pump Station | 315 Center Avenue | HRSD | Heavy rain caused high flow at pump station. The rain gauge at Morrison Avenue PS recorded 1.49" of rainfall within 30 minutes. Temporary auxiliary pump at station failed at 7:09 pm and overflow alarm at station began at 7:14 pm. The temporary pump is used to assist the pump station pumps during wet weather high flows. Overflow entered Government Ditch. | 14,260 | 14,260 |
| SSORS#2012-T-103105 | 7/9/2011 | Pump Station #37 | 13705 Warwick Blvd | City of Newport News | Due to Intense Heavy Rainfall from the evening of 7/8/11 into the morning of 7/9/11 (projected 3-5" of rainfall), coupled with saturated ground from previous rainfalls and high water tables the Inflow & Infiltration into the PS overwhelmed existing pumps to handle flows. | 10,125 | 10,125 |

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| SSORS#2012-T-103106 | 7/9/2011 | Pump Station #37 | 13705 Warwick Blvd. | City of Newport News | Due to Intense Heavy Rainfall from the evening of 7/8/11 into the morning of 7/9/11 (projected 3-5" of rainfall), coupled with saturated ground from previous rainfalls and high water tables the Inflow & Infiltration into the PS overwhelmed existing pumps to handle flows. | 3,000 | 3,000 |
| SSORS#2012-T-103107 | 7/9/2011 | Pump Station #56 | 907 Colleen Dr. | City of Newport News | Due to Intense Heavy Rainfall from the evening of 7/8/11 into the morning of 7/9/11 (projected 3-5" of rainfall), coupled with saturated ground from previous rainfalls and high water tables the Inflow & Infiltration into the PS overwhelmed the existing pumps to handle the flows. | 1,500 | 1,500 |
| SSORS#2012-T-103108 | 7/9/2011 | PS #83 Force Main | 11871 Jefferson Ave. | City of Newport News | Due to Intense Heavy Rainfall from the evening of 7/8/11 into the morning of 7/9/11 (projected 3-5" of rainfall), coupled with saturated ground from previous rainfalls and high water tables the Inflow & Infiltration into the Pump Station increased pressurization into the aged & deteriorating force main in a cyclic pumping action causing a 12 yr old wrap around band to break, causing the SSO to occur. | 72,000 | 20,700 |
| SSORS#2012-T-103115 | 7/9/2011 | Patrick Henry Pump Station, Influent flume | 215 G. Ave, Newport News, VA | HRSD | Heavy rains caused an overflow at the pump station influent flume. | 20,250 | 20,250 |
| SSORS#2012-T-103116 | 7/9/2011 | Center Avenue Pump Station | 315 Center Ave, Newport News, VA | HRSD | Heavy rain caused an overflow at the pump station weir a structure. Used the flow meter data from the overflow weir to calculate the amount of sewage lost. Start and stop times are from the bypass alarm SCADA data. Time of discovery was when the alarm page was sent out by the HRSD SCADA system. | 216,660 | 216,660 |
| SSORS#2012-T-103132 | 7/30/2011 | Manhole | 35th Street & Huntington Avenue | HRSD | Contractor set up bypass pumping system in order to do rehab work on gravity line. Pumps did not operate properly. They pumped down the manhole too low and lost suction. The pumps did not regain prime fast enough for the sewage coming into the manhole and the manhole overflowed a small amount (5-10 gallons) before the pumps could catch up. | 125 | 0 |

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| SSORS#2012-T-103153 | 8/27/2011 | Pump Station #37 | 13705 Warwick Blvd | City of Newport News | Friday night- 8/26/11 initial rain bands from the leading edges of Hurricane Irene brought multiple inches of rainfall/hr for the next day and a half of time into the Hampton Roads region of Virginia until Hurricane Irene passed out of this region on Sunday morning- 8/28/11. This massive increase of stormwater to the city's SS system overwhelmed the design capacity of the system to safely transport normal design flows to HRSD for treatment resulting in the SSO. | 53,790 | 53,790 |
| SSORS#2012-T-103155 | 8/28/2011 | Pump Station #49 | 14432 Old Courthouse Way | City of Newport News | Friday night- 8/26/11 initial rain bands from the leading edges of Hurricane Irene brought multiple inches of rainfall/hr for the next day and a half of time into the Hampton Roads region of Virginia until Hurricane Irene passed out of this region on Sunday morning- 8/28/11. This massive increase of stormwater to the city's SS system overwhelmed the design capacity of the system to safely transport normal design flows to HRSD for treatment resulting in the SSO. | -1 | -1 |
| SSORS#2012-T-103195 | 8/27/2011 | Center Avenue Pump Station | 315 Center Avenue | HRSD | Heavy rain during hurricane Irene caused station to overflow weir. Rain gauge at Copeland Park Pump Station recorded 8.71" of rain for 8/27. | 1,153,806 | 1,153,806 |
| SSORS#2012-T-103209 | 8/27/2011 | Newmarket Pump Station | 6000 Orcutt Avenue | HRSD | Heavy rain from hurricane Irene and emergency generator failure caused station to overflow. Staff responded to alarm and found power was off to station and emergency generator was not operating. Rain gauge at Copeland Park Pump Station recorded 8.71" of rain for 8/27. | -1 | -1 |
| SSORS#2012-T-103270 | 8/28/2011 | Pump Station #34 | 115 James Landing Road | City of Newport News | Electrical Power lines were brought down with area trees to block access to PS #34 due to Hurricane Irene's Impact. Loss of electrical power knocked out the PS causing the SSO. The PS has no permanently mounted emergency power generator on site. SSO calculated at 25 gpm. | 1,625 | 1,625 |

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| SSORS#2012-T-103327 | 12/21/2011 | Ferguson Park Pump Station | 227 75th Street | HRSD | Partial blockage of gravity line caused manhole beside pump station to overflow. HRSD was notified that floor drains at Leeward Marina were backing up with sewage. HRSD responded and the pump station was operating properly but the gravity line between the station wet well and the manhole was partially blocked. The manhole overflowed intermittently for ten minutes. | 250 | 250 |