

CITY OF BALTIMORE

STEPHANIE RAWLINGS-BLAKE, Mayor



DEPARTMENT OF PUBLIC WORKS

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October 28, 2015

**VIA OVERNIGHT MAIL**

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Reference DOJ Case No. 90-5-1-1-4402/1

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**RE: United States, et al. v. Mayor and City Council of Baltimore  
Civil Action No. JFM-02-1524  
Calendar Quarterly Report No. 52  
For Calendar Quarter Ending September 30, 2015**

Ladies and Gentlemen:

In the above referenced Consent Decree, the City of Baltimore agreed to submit a Calendar Quarterly Progress Report covering activities required by the Consent Decree. Included herewith is Calendar Quarterly Report No. 52, for the Calendar Quarter ending September 30, 2015.

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October 28, 2015

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We trust that you will agree that the City of Baltimore is in compliance with this requirement of the Consent Decree. Please notify us if you have any questions related to this item.

Sincerely,

A handwritten signature in blue ink that reads "Kumasi Vines".

Kumasi Vines, Acting Bureau Head  
Water & Wastewater

Enclosures

KV/ajd

cc: Rudolph Chow, P.E.  
Dana Cooper, Esquire  
Ms. Dawn Lettman  
Mr. George Nilson  
Thomas Ligan, Esquire  
Mr. Mike Gallagher  
Art Shapiro, P.E.  
Arthur Jones-Dove, P.E.  
File



# City of Baltimore Sanitary Sewer Overflow Consent Decree

**Civil Action No. JFM-02-1524**

Calendar Quarterly Report No. 52  
For Calendar Quarter ending September 30, 2015

*Submitted:  
October 30, 2015*

*Submitted To:  
United States Environmental Protection Agency  
United States Department of Justice  
Maryland Department of the Environment*

*Prepared By:  
City of Baltimore  
Department of Public Works,  
Bureau of Water and Wastewater*



## Statement of Certification

I certify under penalty of law that this information was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my directions and my inquiry of the person(s) who manage the system, or the person(s) directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.



---

Kumasi Vines  
Acting Bureau Head



# City of Baltimore Sanitary Sewer Overflow Consent Decree

Civil Action No. JFM-02-1524

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For Calendar Quarter ending September 30, 2015

*Submitted:  
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United States Environmental Protection Agency  
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Department of Public Works,  
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Civil Action No. JFM-02-1524  
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## **A. INTRODUCTION**

This Calendar Quarterly Report is submitted pursuant to the requirements of a Consent Decree entered on September 30, 2002 in the United States District Court for the District of Maryland as part of the response to Civil Action No. JFM-02-1524. This Calendar Quarterly Report is intended to provide an update on the progress of remedial measures required by the Consent Decree and the status of various programs to be implemented.

The requirements for the Calendar Quarterly Report are specified in Paragraph 18 of the Consent Decree, which reads as follows:

"Beginning with the first full calendar quarter after the Date of Entry of the Consent Decree, Baltimore shall submit to EPA and MDE within thirty (30) days after the end of each calendar quarter until termination of this Consent Decree a Calendar Quarterly Progress Report ("Calendar Quarterly Report") covering the subject of this Consent Decree. This Calendar Quarterly Report shall contain the following:

- i. Progress reports on the implementation of the requirements of Section VII (Remedial Measures) as described in Paragraphs 8 through 15;
- ii. A description of any problems anticipated with respect to meeting the requirements of Section VII (Remedial Measures) of this Consent Decree; and
- iii. A description of all environmentally beneficial projects and SEP implementation activity in accordance with Paragraphs 29-33 of the Consent Decree; and
- iv. Any such additional matters as Baltimore believes should be brought to the attention of EPA and MDE."

It was noted that Paragraph 18 contained a typographical error. The Remedial Measures described in Paragraphs 8 through 15 comprise Section VI of the Consent Decree, and not Section VII. Accordingly, this Calendar Quarterly Report refers to Paragraphs 8 through 17 of the Consent Decree as Section VI.



## **B. PROGRESS OF IMPLEMENTATION OF SECTION VI REQUIREMENTS**

For reference purposes, this Section B is organized so that the item numbers correspond directly to Paragraphs and subparagraphs in the Consent Decree.

### **Paragraph 8: Elimination of Sanitary Sewer Overflow and Combined Sewer Overflow Discharges**

- A. **General Requirements:** During the calendar quarter ending September 30, 2015, the City of Baltimore was in general compliance with the Clean Water Act and Title 9, Subtitle 3 of the Environment Article, Annotated Code of Maryland. Episodes of non-compliance include un-permitted sanitary sewer overflows (SSOs), as reported during the quarter in accordance with Paragraph 17 of the Consent Decree and as summarized in Appendix 5 herein.
- B. **Construction Projects:** Appendix 1 to this Calendar Quarterly Report provides a status update for each of the construction projects listed in Appendix D of the Consent Decree.

#### **1. Practical Completion**

As design and construction progress, concerns and issues have arisen that may impact the schedule for some of the Paragraph 8 projects, are as follows:

**Project No. 8: Stony Run Interceptor and Pumping Station:** Due to significant public opposition to the proposed pumping station site in Wyman Park, additional pumping station locations were investigated. A new location at the Department of Public Works Solid Waste Site, near the intersection of Sisson Street and 29<sup>th</sup> Street had been selected and approved by MDE and EPA. To expedite the project, this project was split into 3 phases:

- SC 819 (Phase 1) is an upper portion of Stony Run interceptor and consists of rehabilitation, and partial replacement of pipelines and manholes located north of Wyndhurst Avenue. Practical completion of this project was complete as of October 14, 2006.
- SC 838 (Phase 2) is the middle portion of Stony Run interceptor and consists of rehabilitation and partial replacement of pipelines located between Cold Spring Lane and Wyndhurst Avenue. Practical completion of this project was complete as of March 21, 2007.
- SC 839 and SC 847 (Phase 3) consist of 20 mgd pumping station, force main and gravity sewer. Due to delay in siting the pump station, the City has requested and MDE has approved a 6-month extension for the project advertisement and completion dates. Both SC 839 and SC 847 were advertised on June 16, 2006. For Contract SC 839, the city received only one bid 65% above the engineers estimate. The city rejected this bid and had determined that the compressed construction schedule of one year is the primary reason for the unusually high bid amount and lack of competitive bidding. The



City re-advertised Contract SC 839 on October 27, 2006 and, anticipated that based on bids received in December, contract negotiations will begin. The City sent a letter on October 13, 2006 requesting an additional extension of fourteen (14) months to account for the additional time required for construction due to the increased scope of work. For SC 847 the city had awarded this contract to a successful bidder and the current duration was one year, however the full functionality and operation of the pumping station will depend on the progress of SC 839. Therefore, the City has requested to move the practical completion date for SC 839 and SC 847 from December 31, 2007 to February 28, 2009. A response from MDE was received on February 26, 2007, granting the requested extension. The Practical Completion deadline for both of these projects is now February 28, 2009. The extension letter request for the extension of SC 847 to May 31, 2009 was granted by EPA on June 22, 2009 and MDE on April 15, 2010. Practical Completion was achieved on May 29, 2009, for lower portion of project SC 839RR – Stony Run Interceptor. Conditional acceptance for SC 839RR was achieved on July 21, 2011.

## **2. SSO Structure Elimination**

SSO No. 132 is located at the intersection of Springdale Avenue and Hilton Street. It was proposed to monitor this SSO structure for a twelve-month period ending September 18, 2004. During the calendar quarter ending September 30, 2005, activity was observed at this SSO structure on March 23, and March 28, 2005.

The City of Baltimore eliminated SSO No. 33 & No. 34 on December 10, 2008 and December 23, respectively. The City of Baltimore eliminated SSO No. 136 on January 21, 2009.

SSO No. 132 is located at intersection of Hilton Street & Springdale Ave  
SSO No. 134 is located near the intersection of Liberty Heights and Elamont Road.  
SSO No. 135 is located one block away from SSO No. 134, at the intersection of Liberty Heights and Dennlyn Road.  
SSO No. 137 is located near the intersection of Shannon Drive and Brehms Lane.  
SSO No. 138 is located at the intersection of Cold Spring Lane & Ayrdale Ave.  
SSO No. 139 is located at the intersection of W Garrison Ave and Queensberry Ave.

The City is working on addressing these SSOs. The City has engaged the services of an engineering firm to investigate and evaluate the collection system adjacent to SSO Nos. 132, 134 and 135. The design to eliminate these SSOs is complete and the contract was advertised on February 10, 2012, bids were opened on April 4, 2012, contract was awarded on September 26, 2012, and Notice to Proceed was issued on February 4, 2013. Due to construction and bypass activity at SSO #132 (site P8\_10\_132S), SSO #134 (site HL32) and SSO #135 (site P8\_10\_135S) these meters were removed on 2/20/14, 8/17/13 and 6/13/14 and, respectively. These meters were re-installed on 9/11/14 after construction activities were concluded.

**SSO 150 located at the intersection of N Calvert St & Chancery Rd**

**SSO 151 located in the proximity of 4210 Curtis Ave**

**SSO 152 located at the intersection of N Charles St & W Lanvale St**



**SSO 153 located at the intersection of Fernhill Ave & Hillsdale Rd**

**Flow meters have been installed and will monitor these locations for 6 months. The collected data in conjunction with the hydraulic model will determine if they can be sealed.**

The City will continue to monitor and evaluate activity at these SSO structures and will continue to keep EPA and MDE advised of progress in future Calendar Quarterly Reports.

Other than the concerns and issues noted here, all Paragraph 8 projects are complete. The milestone dates specified in Appendix D of the Consent Decree have all been met.

- C. Separate Sanitary Sewer Characterization Report:** This requirement has been completed.

**D. Elimination of Combined Sewer Overflows:**

Walbrook: This project has been completed.

Forest Park: During the calendar quarter ending September 30, 2006, combined sewer overflow (CSO) No. 13P was eliminated and the City reported that the Combined Sewer System has been separated and all CSO structures have been eliminated in the Forest Park neighborhood.

On October 11, 2006, the City sent a letter to MDE/EPA that included a report dated March 2006 entitled "Confirmatory Testing for Final Separation of Combined Sewer System in Forest Park Area". The letter also documented the elimination dates for the CSO structures associated with this area, including 10P, 11P, 13P, 18P, 19P, 21P, and 31P. Lastly, the City requested that post-construction monitoring be waived for these CSO structures since the eliminations were performed.

MDE responded to this letter on December 11, 2006, and approved the waiving of post monitoring for the CSO structures, with the exception of 13P. For this structure 13P, MDE noted that a site inspection was performed by MDE on October 19, 2006 that revealed the discharge of raw sewage. Therefore, MDE disapproved the waiving of the post-monitoring requirements at this location. On January 16, 2007, the City submitted a letter of response that included additional sampling results indicating that the high bacterial levels are due to stagnant pooling water at the outfall in lieu of a sewage discharge. It is therefore believed by the City that post-monitoring can be waived at overflow structure 13P. EPA requested that the City provide additional clarification regarding CSO 13P. Sampling was carried out on February 8, 2012 and a report and laboratory results were sent to EPA on March 21, 2012.

**E. Flow and Rainfall Monitoring for Paragraph 8 Construction Projects:**

As of September 30, 2015, 3 flow meters are installed as indicated in Table 8-1 specifically for Paragraph 8 Projects.



**Table 8-1: Flow Monitor Installations for Paragraph 8 Projects**

Consent Decree Project ID No.	ADS Project ID No.	Project	No. of Meters		
			July	August	September
7	4	Lower Jones Falls Interceptor	1	1	1
8	5	Stony Run Interceptor & P.S.	1	1	1
10	7	Greenmount Interceptor	1	1	1
Total			3	3	3

A summary of rainfall and flow monitoring data collected during June, July and August 2015 (the data reported lags by one month due to the 30-day lag time in delivery of the prior month's data), prepared by RJN/ADS Environmental Services is submitted on a compact disk in the inside of the back cover of this Calendar Quarterly Report. The ADS report includes:

- Meter location maps
- Meter site reports
- Rain gauge location maps
- Tabular flow monitoring data
- Tabular rain gauge data
- Depth and velocity scattergraph plots
- Flow and rainfall data in Excel format

All flow meters are ADS Model 4000 flow monitors. Each meter was calibrated by manually measuring depth and velocity to confirm that the flow meters are functioning properly. Multiple measurements were obtained for each flow meter. These measurements are shown on the depth-velocity scattergraphs provided for the flow monitoring sites.

#### **F. Progress Reports:**

Progress of work under Paragraph 8 is as reported herein.

### **Paragraph 9: Collection System Evaluation and Sewershed Plans**

- A. The milestone dates for completion of the Sewershed Study and Plan for each of the City's eight sewersheds, as established by Paragraph 9.B of the Consent Decree, recognize that evaluation work will not begin in earnest until several years after the Date of Entry.

**Sewershed Study and Plan:** The City submitted Jones Falls, the first of the sewershed plans to MDE/EPA and DOJ on December 26, 2008 with an approach plan for



prioritizing the capital improvements recommended by the Jones Falls team and the other sewersheds. MDE/EPA submitted comments on the Jones Falls Report in a letter dated June 4, 2009. The City responded within 30 days. The Herring Run sewershed plan was submitted to MDE/EPA and DOJ on June 26, 2009. The Low Level sewershed plan was submitted to MDE/EPA and DOJ on December 22, 2009. The High Level sewershed plan was submitted to MDE/EPA and DOJ on December 21, 2009. The Patapsco, Dundalk, Outfall and Gwynns Falls sewershed plan were submitted to MDE, EPA and DOJ on June 15, 2010, June 18, 2010, June 25, 2010 and June 28, 2010, respectively. All eight (8) Sewershed Plans/Reports were submitted by the milestone dates established in the Consent Decree.

In the Planning phase the Sewershed teams have completed quality control and the quantities below are provided as final inspection quantities.

- A total of 33,227 manholes were inspected during Paragraph 9 sewershed studies
- A total of 5,994,171 linear feet of sewers were CCTV inspected during Paragraph 9 sewershed studies (~ 94%).

Any remaining assets will be inspected during Paragraph 9 rehabilitation projects.

**B. The Sewershed Study and Plan Elements:** The Plan Elements in the Consent Decree are to be followed for each sewershed.

**C. Collection System Inspections:** Please refer to Section A above for a summary of final inspection quantities.

In accordance with Paragraph 8 and 9 of the Consent Decree, many collection system components have been replaced, rehabilitated, and slip-lined. The City submitted to the EPA/MDE, under Paragraph 9 D (vii), a request for wavier of the Paragraph 9.D inspection requirements for these system components. In a letter dated September 04, 2007, MDE approved the request to waive inspection of selected portions of the collection system.

**D. Infiltration and Inflow ("I/I") Evaluation:** Flow monitoring began on May 09, 2006. As of September 30, 2015, the flow monitoring continues at 9 meter locations throughout the City, including the long term monitoring program.

**E. Long-Term Capacity/Peak Flow Management:** During the calendar quarter ending September 30, 2015, there was no capacity/flow management analysis activity related to the Sewershed Studies and Plans.

**F. Sewershed Study and Plan(s) Approval and Implementation:**

#### **Sewershed Study and Plan(s):**

All eight (8) Sewershed Plans/Reports have been submitted by the milestone dates established in the Consent Decree.



### **Approval**

The plans have been submitted. The City provided a technical workshop on February 26, 2009, addressed comments sent on June 4, 2009 for Jones Falls and met with MDE and EPA on May 3, 2010 to provide further justification on the use of the 2-year 24 hr design storm. In addition to other items such as an affordability analysis, MDE and EPA also requested that the City consider levels of improvement that would minimize SSOs in sensitive areas. Based on EPA's definition of "sensitive areas" received on June 28, 2010, the City evaluated an approach that includes the sewershed studies recommended improvements and accounts for higher levels of controls for minimizing SSOs in identified sensitive areas. The City received a letter from United States Environmental Protection Agency (EPA) dated February 10, 2011, stating that it has reviewed the Final Sewershed Plans for Jones Falls, Herring Run, and High Level. Based on its review has concluded that after the City implements the proposed improvements (2-year 24-hour design storm) a significant number of overflows will remain during greater storm events, including 5-year and 10-year 24-hour storm events. Therefore, EPA cannot approve these sewershed plans as submitted because the recommended improvements fall short from the goal of the CD in ensuring that Baltimore's sewage collection system does not cause or contribute to SSOs.

EPA's response provides minimal direction on how the City should proceed with revising the plans. Therefore the City met with EPA and MDE on June 02, 2011, to better understand their expectations. During this meeting, the City presented a revised approach utilizing 64 years of historic rainfall data for determining the appropriate level of protection to be utilized as the basis of design for system improvements to reduce the number of SSOs. Based upon this meeting, EPA and MDE requested further clarification of the proposed methodology. The City submitted a white paper outlining the Continuous Simulation Methodology on June 30, 2011.

On July 8, 2011, representatives from EPA, MDE and the City participated in a conference call and the City answered EPA and MDE's questions regarding the white paper and the continuous simulation methodology. The City sent a follow-up letter to EPA and MDE on July 22, 2011 which further addressed EPA and MDE's questions. On August 29, 2011, EPA submitted additional comments and questions to the City and MDE. EPA and the City participated in a second conference call on August 31, 2011 during which the City responded to EPA's questions.

In a letter dated November 22, 2011, EPA requested that the City, simultaneously submit a proposed plan of improvements based on the continuous simulation approach in addition to a revised implementation plan based on a 10-year, 24 hour design storm by the end of 2011. The City submitted the requested information to EPA and MDE on December 30, 2011. The City received comments from EPA on the continuous simulation report on March 6, 2012 and responded in a letter dated March 22, 2012. EPA, MDE and the City met on March 8, 2012 to discuss on-going consent decree activities, the appropriate level of protection and modification to the compliance schedule. The EPA, MDE, and the City all agreed that starting with a baseline 5 year level of protection (LOP) to be augmented with greater protection in some areas is the right approach. It was that a series of technical workshops would be coordinated to develop the criteria to be used in selecting the appropriate LOP. The first of these technical workshops was held on March 26, 2012, with representatives of the City, EPA Region 3 and MDE with



other technical workshops to follow. During the workshop, EPA and MDE had some questions on the hybrid approach. The City provided the necessary clarification in a letter dated April 13, 2012.

On May 10, 2012, via e-mail, the City received preliminary guidance from EPA Region 3 on behalf of both EPA and MDE on the proposed continuous simulation methodology to address SSOs as follows:

1. Baltimore will submit a continuous simulation study and plan for each sewershed in its collection system to EPA and MDE by December 2012. Baltimore shall evaluate and propose hydraulic and capacity related improvements necessary to achieve a 5-year and 10-year SSO Level of Protection (LOP).
2. The decision on how to comply with the CD will remain with Baltimore. Based on modeling provided to date, the Agencies will not accept anything less than a 5-year LOP. However, where the calibrated modeling shows that there are remaining overflows, Baltimore will prioritize these overflows based on volume and develop a plan that will achieve a LOP necessary to meet CD requirements. This plan may include up to a 15-year LOP in some areas. These areas prioritized by volume will be addressed prior to the post construction monitoring phase."

EPA and MDE have indicated that they would be meeting in the near future to discuss the details associated with any proposed modifications to the consent decree and that a letter would be forthcoming once those details have been agreed to. The City submitted a letter dated, June 8<sup>th</sup>, 2012, to EPA and MDE acknowledging receipt of their e-mail on May 10. Further, the City requested a meeting to discuss the schedule, clarification regarding EPA's intentions, and regular coordination moving forward. To date the City still awaits a response from EPA and MDE. By letter dated September 10, 2012, the U.S. Department of Justice provided a proposal to modify the CD, extending the compliance deadline and addressing other issues.

On October 19, 2012, the EPA sent a letter to the City that included comments on the Integrated Planning Framework (IPF) presentation conducted by the City on September 24, 2012. On December 7, 2012, the City sent a letter to the Regulators regarding among other things the Sewershed Report Revisions and Integrated Planning. The City submitted the Sewershed Study and Plan Amendment in December 28, 2012.

The City met with EPA and MDE on January 31, 2013, to further discuss the revised Sewershed Report Revisions and Integrated Planning. Based upon this meeting, the City prepared a document called Phase 1 Adaptive Management Technical Memorandum (TM) that was submitted to EPA and MDE on February 28, 2013, detailing proposed projects, costs, estimated benefits and time frames for the first phase of the adaptive management approach.

The City received comments from EPA regarding the Technical Memorandum (TM) on March 12, 2013. The City responded to the comments in a letter dated April 11, 2013.

On November 1, 2013, the City received a response from the Regulators to the June 28, 2013, City letter regarding the time line for completion of Phase 2 Consent Decree work.



The Regulators recognized the ongoing efforts by the City and indicated that they have no objection to the implementation of a refined version of the IPF and a two-phased adaptive management approach to complete the structural and hydraulic rehab under the Consent Decree. The Regulators also pointed out that a court approval of an amended Consent order is required if any deadlines are to be modified. **The City responded to the November 1, 2013 correspondence in a letter dated December 16, 2013 and met with EPA, DOJ and MDE on March 27, 2014 to provide a progress update on the Consent Decree. The City followed up with a letter dated May 12, 2014, to the Regulators highlighting the two phased adaptive management approach and re-iterating the City's willingness and commitment to move forward with the Consent Decree modification. On May 12, 2014 the City provided a response based on questions raised by EPA and MDE during the progress meeting on March 27, 2014. An additional follow-up conversation between EPA and the City on June 4, 2014 resulted in the Phase 1 Adaptive Management Contract Summary which was submitted to EPA on June 27, 2014.**

**The City of Baltimore received a letter dated June 11, 2015, from the Department of Justice including proposed modifications to the City of Baltimore Consent Decree. The City is currently reviewing the language and will schedule multiple meetings with the Regulators to finalize.**

### **Implementation**

The sewershed studies and the system-wide hydraulic model clearly demonstrate how the sewage flows generated in the County will impact the recommended improvements within the City. Unfortunately, the timing of the City's and County's Consent Decrees limits the ability to best represent the planned improvements in the County. More importantly, County flows could be significant and could render a number of the recommended hydraulic improvements ineffective in eliminating SSOs. Conversely, we understand that the County is planning to reduce wet-weather flows which could result in over-sized hydraulic improvement projects and excessive costs for our downstream facilities. Since an estimate of the reduction in wet-weather flows from the County is not available at this time, the City cannot model this benefit. Therefore, we believe that implementing hydraulic improvements in the sewersheds that are impacted by County flows would be premature, may not result in the most fiscally responsible approach for the City, and may not achieve the Consent Decree goal of eliminating SSO's.

The Final Sewershed Plans as submitted outlined how the City plans to implement all of the identified structural repairs and hydraulic improvement rehabilitation projects by January 1, 2016. However, the City believes this project scheduling ignores the inherent problem of lack of reliable Baltimore County hydraulic flow data crucial to five (5) of the City's sewersheds. The remaining three (3) sewersheds have no or minimal impacts from County flow. In addition to flow impacts from the County, the February 10, 2011, letter does not provide clear guidance for the City to evaluate all projects previously identified in the final sewershed plans. However, the City recognizes its responsibility to comply with the Clean Water Act and the Consent Decree, thus, the City is in good faith proceeding with some O&M related projects. These projects include designing other structural defect and hydraulic projects that will improve management of the collection



system such as, cleaning and CIPP lining, point repairs, manhole rehabilitation, etc.

The City plans on advancing executable projects that are not impacted by the design storm selection while the City and MDE/EPA determine how best to address the misaligned Baltimore County Consent Decree data and the appropriate level of protection selection approach for Baltimore City. The City will monitor the collection system and calibrate the model, perform additional hydraulic simulations and assess the impact of County flows on the City's collection system, and determine the effectiveness of the selected construction projects and the effectiveness of projects implemented by the County. Doing so will allow the City to design and implement hydraulic improvements that more precisely comply with the intent of the Consent Decree, which is the elimination of SSOs. Appendix 2 of this Calendar Quarterly Report provides a status update for each of the construction projects being carried out under Paragraph 9 of the Consent Decree. The City will continue to coordinate with MDE and EPA to address the aforementioned issues and will revise the sewershed planning recommendations accordingly.

**G. Progress Reports:** Progress of work under Paragraph 9 is as reported herein.

## **Paragraph 10: Illegal Sewer Connections**

**A. Illegal Private Connections:** During the calendar quarter ending September 30, 2015, Baltimore further addressed the list of suspected illegal connections to the collection system known to the City. The City had previously initiated enforcement actions for 14 suspected illegal connections by notifying the respective property owners of the suspected illegal connections and actions to be taken, as required by Paragraph 10.A of the Consent Decree. In accordance with the City's enforcement plan, staff of Housing and Community Development (HCD) inspected these 14 properties and determined that two were not illegal connections, ten required dye/smoke testing for confirmation, and two required further evaluation. The City performed dye testing and determined that only 5 are illegal connections. Furthermore, the City has identified and confirmed 33 additional properties within the Western Run Sewershed with potential illegal storm water connections to the sanitary system.

The City has further researched the 38 illegal connections documented in the past Quarterly Reports and has determined that the results of the testing performed to date cannot differentiate between an illegal connection or a privately-owned portion of a customer service connection lateral. Dye testing performed did prove that sources of inflow are connected to the sewer; however, it was not determined whether the connections were via direct connections to the sewer pipe or via the privately owned portion of the lateral. As such, the City should not have positively identified these as illegal connections and requests approval to remove the 38 connections from the list in Appendix 3 until further investigation can be performed. In February 2010, the City completed its illegal connections investigations in the Jones Falls Sewershed, including the 38 potential connections in the Western Run Area previously provided in Appendix 3, plus an additional 25 as identified in the Jones Falls Collection System Sewershed Study



and Plan, utilizing dye-testing, smoke testing along with CCTV inspections. Based upon these investigations out of the 63 previously suspected illegal connections, only two illegal connections were confirmed. These locations are, 6309 Greenspring Ave and 4424 Marble Hall Rd.

6309 Greenspring Ave: A letter was sent to the property owner on August 08, 2011, and a follow up letter was sent on January 5, 2012. The second letter was returned unclaimed. Dye testing confirmed the location is abated.

4424 Marble Hall Road: On August 11, 2008 while performing dye testing as part of their field investigations, the Herring Run Sewershed team identified an illegal sewer connection at 4424 Marble Hall Road. Once an illegal connection is identified, the approved Illegal Connection Enforcement and Implementation Plan will be adhered to.

This illegal connection has been found to be located on private property. The City has contacted its Housing Department (HCD) to send the owner a notice to eliminate this illegal connection. Additional dye-testing was carried out in March 2011 to satisfy HCD requirements and a letter was sent to HCD on May 25, 2011, for further action. A Violation Notice was issued in July 2011. A meeting was held on July 28, 2011, with Marble Hall Apartment management to discuss the progress of eliminating the illegal connection. Per the management of the apartment complex, the connection was re-routed in August 2011. Follow up testing was carried out in September which indicated that the fix did not prevent storm water from getting into the sanitary sewers. The City attempted to coordinate with the property owner to fix the problem permanently but the property owner is not responsive. This location has been referred to the Code Enforcement Legal Section of HCD (ID 28567). The violation has been corrected. A City representative visited the site and conducted visual inspection and dye test on March 11, 2013, to confirm. This location is closed.

The City plans to perform supplemental investigation as part of the Paragraph 9 Sewershed Studies. Under these studies, each of these connections and any additional connections will be investigated and a distinction will be made between the two types of connections as noted herein.

- B. **Updated List of Illegal Connections:** Appendix 3 contains the updated list of known illegal connections.
- C. **Illegal Connection Enforcement and Implementation Plan:** This requirement has been completed as reported in Quarterly Report No. 7.
- D. In a letter dated May 05, 2003, MDE stated that they had reviewed the draft plan for implementation and enforcement with regard to illegal connections and found it to be acceptable. As requested by MDE, the City is considering the merits of adding a provision to the Plan that would enable the City Department of Public Works to actually do disconnections themselves and bill people for the materials and labor as a last resort if they have a situation where flows may cause a SSO and there is no cooperation from the property owner. To date, the need for this has not occurred. EPA in its letter dated January 12, 2005 has approved the Illegal Sewer Connection Detection and Enforcement Plan.



- E. Progress of work under Paragraph 10 is as reported herein.
- F. **Privately-Owned Portion of a Customer Service Connection Lateral:** During the calendar quarter ending September 30, 2015, no privately-owned portion of a customer service connection was identified as a source of I/I that causes or contributes to an overflow from the collection system. During this same quarter, no owners of such laterals were notified of the need to repair, rehabilitate, replace or terminate their laterals, and no enforcement actions in regard to such laterals were pending.

## **Paragraph 11: Pumping Station Inspection, Rehabilitation, and Repair**

- A. **Pumping Station Rehabilitation and Repair:** As reported in Quarterly report No. 8, all pumping station rehabilitation projects are complete.
- B. **Pumping Station Inspection Procedures:** During the calendar quarter ending September 30, 2015, Baltimore inspected each of the eight pumping stations at least twice daily in accordance with Paragraph 11.B. All inspections were conducted in accordance with the inspection checklist attached as Appendix F to the Consent Decree, and completed inspection checklists are being maintained. All deficiencies noted during inspections were corrected within eight hours, or a work order was issued for correction. A listing of these work orders is attached as Appendix 4 to this Calendar Quarterly Report.

As reported in Quarterly Report No. 8, the project to upgrade the SCADA system for remote monitoring of pumping stations is completed. As such, the City of Baltimore recognizes that once daily pumping station inspections will satisfy the requirements of the Consent Decree in accordance with Paragraph 11.B.i.

- C. **Pumping Station Remote Monitoring:** As of September 30, 2015, Baltimore continuously monitored pumping station data in accordance with Paragraph 11.C. of the Consent Decree. Alarm data was electronically archived.
- D. **Pumping Station Equipment Inventory:** As of September 30, 2015, all pumps, motors, bar screens, sensors and other critical components of Baltimore's pumping stations had been assigned unique equipment identification numbers. These numbers are recorded in the maintenance information management system ("MIMS") operated by Baltimore's Wastewater Facilities Division.
- E. **Pumping Station Preventative Maintenance:** The MIMS system operated by Baltimore's Wastewater Facilities Division automatically generates work orders for preventive maintenance at Baltimore's eight pumping stations, including standard operating procedures and parts lists. During the calendar quarter ending September 30, 2015, the MIMS system was used to initiate and track scheduled preventive maintenance activities at the pumping stations.

During the calendar quarter ending December 31, 2002, a procedure for determining the



cause of equipment and/or system failures was submitted as required by Paragraph 11.E.ii of the Consent Decree.

- F. Pumping Station Operation and Maintenance Manuals:** As of September 30, 2015, operations and maintenance ("O&M") manuals for each of Baltimore's eight pumping stations were up to date, reflecting current station configuration, equipment, and characteristics. Operating parameter value ranges for each pumping station are available in the standard operating procedures ("SOPs") for that pumping station, which are posted at the pumping station and considered part of the O&M manual. Pump run times are kept in the log books at each pumping station.
- G. Progress Reports:** Table 11-1 Summarizes the status of Baltimore's pumping station inspection and repair program during the calendar quarter ending September 30, 2015.

**Table 11-1: Pumping Station Inspection and Repair Program**

Pumping Station	Date of Inspection Completion	Date of Repair Completion	Repairs or Improvements	No. of Overflows
Eastern Avenue	All Pumping Stations inspected twice per day throughout reporting period	See Appendix 4	See Appendix 4	None
Brooklyn				None
Dundalk				None
Jones Falls				None
Locust Point				None
Quad Avenue				None
McComas				None
Westport				None

Progress toward installation of the new SCADA system for remote monitoring of pumping stations is reported in item 11.C above

## **Paragraph 12: Collection and Transmission System Model**

- A.** The hydraulic modeling task for each sewershed will be performed utilizing the previously-selected hydraulic modeling software package: InfoWorks, marketed by Innovyze.
- B. Model Elements:** The InfoWorks hydraulic modeling package is fully compliant with the requirements listed in Paragraph 12.B.i of the Consent Decree.
- C. Model Project Approach Report:** This draft Report was submitted by the February 27, 2003 milestone date (150 days from the Date of Entry of the Consent Decree).
- D.** EPA in its letter dated January 12, 2005 has approved the Model Project Approach Report. Baltimore has initiated implementation of the Model Project Approach Report. The first phase of model implementation, involving the migration of the four models developed as part of previous sewershed studies into an InfoWorks environment, is



underway.

- E. **Model Certification:** Baltimore completed implementation of the Model for each sewershed on or before submission of the respective Sewershed Study and Plan required under Paragraph 9, and certified the model for each sewershed at that time.
- F. **Progress Report:** **The City continued development and enhancement of the model during this Quarterly period.**

### **Paragraph 13: Collection System Operation and Maintenance**

- A. During the calendar quarter ending September 30, 2015, Baltimore continued to review current practices and procedures for collection system operation and maintenance, and to identify any changes that are needed for full compliance with the requirements of Paragraph 13.A. of the Consent Decree.
- B. The draft Operations and Maintenance Program Report required under Paragraph 13.B. of the Consent Decree was submitted in accordance with the milestone date of January 28, 2003 (120 days from the Date of Entry of the Consent Decree). MDE has indicated approval of this draft Report; EPA has also approved this report in its letter dated January 12, 2005.
- C. The City of Baltimore has implemented root and grease control programs after approval of chemical products that will be used as part of the cleaning for root and grease problem areas. Those pipes that are found to have root and grease problems are being treated under these programs and recorded/tracked in the GIS system.
- D. **Progress Reports:** The implementation period of the Operations and Maintenance Plan was completed in July 2006. The City submitted the Year 1 Annual Report on October 30, 2007, which covered the time period from July 2006 to July 2007. This report includes all elements as specified in this section of the Consent Decree. The Year 2 Annual Report was submitted on October 30, 2008 and it covers the time period from July 2008 to June 2009. The Year 3 Annual Report was submitted to EPA/MDE and DOJ on October 27, 2009. The City of Baltimore submitted the fourth annual progress report, on October 28, 2010. The fifth annual progress report was submitted to EPA/MDE on October 21, 2011. The sixth annual progress report was submitted on October 25, 2012. The seventh annual progress report was submitted on October 30, 2013. **The eighth annual progress report was submitted on October 30, 2014**

### **Paragraph 14: Information Management System Program**

- A. During the calendar quarter ending September 30, 2015, Baltimore continued to develop an information management system that will facilitate engineering analysis, evaluation, operation and maintenance of the collection system.
- B. **Geographic Information System:** On September 24, 2004, Baltimore demonstrated



to EPA and MDE that the GIS is fully functioning and capable of displaying the information described in Paragraph 14.B.i through iv.

- C. **500 Scale Maps:** This requirement has been completed as reported in Quarterly Report No. 7.
- D. **Global Positioning System:** Water and Wastewater Maintenance crews are equipped with eight global positioning system ("GPS") units for use in collection system maintenance. A standard operating procedure (SOP) has been developed for the use of these units in locating collection system components. Maintenance crews have received appropriate training to use the GPS units.
- E. **Inventory of Collection System Components:** On September 24, 2004, Baltimore demonstrated to EPA and MDE that the GIS is fully functioning and capable of displaying the information described in Paragraph 14.E for each component.
- F. **Update Inventory of Collection System Components:** Within ninety (90) days of completion of inspection or rehabilitation of a collection system component as required under Paragraph 9, Baltimore will update the collection system inventory.
- G. **Progress Reports:** Development of the Baltimore collection system inventory database continued throughout the calendar quarter ending September 30, 2015. Most of the information currently in the database has been taken from record documents (for example, "as-built" drawings). **This information will be verified and supplemented with field inspection data/information, and all required database fields are being populated, as part of the Sewershed Studies required under Paragraph 9 of the Consent Decree. Progress toward implementation of the GIS is reported in Item 14.B. above.**

### **Paragraph 15: Valve Inspection and Repair Program**

- A. All requirements of Paragraph 15 have been completed as summarized in Quarterly Report No. 7.
- B. **Progress Reports:** All requirements of Paragraph 15 have been completed as noted in Appendix H of Consent Decree.

### **Paragraph 16: Emergency Response Plan – Un-permitted Discharges**

- A. **Emergency Response Plan (ERP):** Baltimore has developed and implemented an Emergency Response Plan for protection of public health and the environment in the event of an un-permitted discharge from the wastewater collection system.
- B. This requirement has been completed as reported in Quarterly Report No. 7.
- C. The EPA and MDE reviewed the draft Emergency Response Plan, and review comments



were forwarded to Baltimore in a letter from EPA Region 3 received by Baltimore on July 23, 2002. The City of Baltimore revised the draft Emergency Response Plan accordingly by responding to the review comments within the 30-day requirement established by Paragraph 16.C. of the Consent Decree. MDE and EPA granted approval of the Plan in separate letters received by Baltimore on May 5, 2003, and May 14, 2003, respectively. As of the June 13, 2003 milestone date for implementation of the Plan (30 days from final approval), 70 copies of the Plan had been produced and distributed to appropriate staff.

- D. Yearly Review and Update:** During the Calendar Quarter ending December 31, 2007, the City submitted the Yearly Update for 2007. The 2008 update was submitted on December 26, 2008. The City of Baltimore submitted updates to the ERP for 2009 on December 28, 2009. The 2010 annual updates to the ERP were submitted to the Regulators on December 28, 2010. The 2011 annual updates to the ERP were submitted to the Regulators on December 23, 2011. The 2012 annual updates to the ERP were submitted to the Regulators on December 21, 2012. The 2013 annual updates to the ERP were submitted to the Regulators on December 21, 2013. **The 2014 annual updates to the ERP were submitted to the Regulators on December 18, 2014.**
- E.** No portion of the Emergency Response Plan is in dispute at this time, and Baltimore has implemented the Plan in its entirety.

### **Paragraph 17: Reporting of Discharge Events and Recordkeeping**

- A.** During the calendar quarter ending September 30, 2015, Baltimore has complied with the reporting requirements for overflows from the wastewater collection system as established by Paragraph 17 of the Consent Decree, by NPDES Permit Numbers 21555 and 21601, by State Discharge Permit Numbers 89-DP-0581 and 93-DP-0580A, and by State and Federal regulations. Oral notifications of overflows were made to MDE within 24 hours that Baltimore first became aware of them, and written reports were forwarded within 5 days. A summary of reported overflows for the calendar quarter ending September 30, 2015 is provided in Appendix 5.
- B.** During the calendar quarter ending September 30, 2015, Baltimore maintained a monitoring, sampling, analysis and reporting program to monitor water quality in Baltimore surface water. This program is administered by the Water Quality Management Section of the Environmental Services Division in accordance with the requirements of the NPDES referenced in item 17.A. above. Monitoring results are published annually in Baltimore's Water Quality Report.
- C.** Records of all sanitary sewer overflows from Baltimore's collection system during the calendar quarter ending September 30, 2015, are being maintained in accordance with the requirements of Paragraph 17.C.
- D.** Copies of all written reports prepared pursuant to Paragraph 17 will be maintained for a minimum of 5 years, as required by Paragraph 17.D.



### **C. DESCRIPTION OF ANTICIPATED PROBLEMS WITH SECTION VI REQUIREMENTS**

Issues and concerns related to Paragraph 8 construction projects are reported above in the Paragraph 8 section of this Calendar Quarterly Report. As of September 30, 2015, there were no other anticipated problems with Section VI requirements to report.

### **D. DESCRIPTION OF SEP ACTIVITIES**

The study and 30% design for the Patapsco Wastewater Treatment Plant Enhanced Nutrient Removal (ENR) project was completed and submitted to Maryland Department of the Environment (MDE) and US EPA Region III (EPA) in September 2004. The MDE letter approving the 30% design for the Patapsco Wastewater Treatment Plant was on December 01, 2004. The EPA letter approving the 30% design was on received May 24, 2005.

The consultant agreement for the design of the Patapsco Wastewater Treatment Plant ENR project was approved by the City's Board of Estimates on December 21, 2005. As of the calendar quarter ending September 30, 2015, SC 845R - BAF and tertiary PS bids were rejected and the project was re-advertised in December 2011 and bids were received on February 15, 2012. Notice to Proceed (NTP) for construction was issued on August 1, 2012 and the estimated construction completion date is February 2015. SC 852R - Denitrification filters project was advertised on March 27, 2009 and the bids were rejected. This project was re-advertised on October 13, 2009 and the successful bidder was awarded the NTP on December 29, 2009. **This project is currently in the construction phase.**

In addition, the City has selected the consultant for engineering services for SC 855 - ENR Modifications to the Existing Facilities at the Patapsco Wastewater Treatment Plant. As of the calendar quarter ending September 30, 2015, this contract was advertised on April 30, 2010, and bids were due on September 30, 2010. The construction NTP was issued on February 22, 2011. **This project is currently under one year warranty period.**

**Contract for the Improvements to the Headworks and Wet Weather Flow Equalization at Back River WWTP Project (SC 918) will be re-advertised**

### **E. ADDITIONAL MATTERS FOR THE ATTENTION OF THE EPA AND MDE**

As of the calendar quarter ending September 30, 2015 the City of Baltimore has updated the Sanitary Discharges of Unknown Origin (SDUO) tracking sheet to the Quarterly Report per the requirements of the policy letter by EPA and MDE dated March 31, 2009. The details of these sites are located in the SDUO tracking sheets in Appendix 5.



The City provided a response to MDE/EPA and requested additional time to research and develop possible methods of quantifying SDUOs in a letter dated April 30, 2009. The City submitted the SDUO Quantification Protocol to MDE and EPA for review, comments and approval on August 06, 2009. EPA/MDE issued a SDUO Quantification Protocol comment letter on December 21, 2009. The City of Baltimore issued a response letter to EPA/MDE on February 16, 2010. EPA/MDE approved the quantification protocol on October 12, 2010, and requested that the City apply the protocol to all resolved and outstanding SDUO sites since October 30, 2008, and to all future SDUOs. The City submitted a final approved copy of the SDUO Quantification Protocol to MDE/EPA on November 18, 2010 and sent in the application of the SDUO Protocol on December 28, 2010.



# **APPENDIX 1**

## **STATUS OF PARAGRAPH 8 CONSTRUCTION PROJECTS**



**APPENDIX 1**  
**STATUS OF PARAGRAPH 8 CONSTRUCTION PROJECTS**  
As of September 30, 2015

PROJ. ID NO.	PROJECT	DESCRIPTION AND REMARKS	DATE CONSTRUCTION CONTRACT ADVISED	DATE OF PRACTICAL COMPLETION	DATE SSO STRUCTURES ELIMINATED	SSO/CSO STRUCTURES ELIMINATED	STATUS
<b>UPPER JONES FALLS SEWERSHED</b>							
1	Western Run Interceptor (JPI Branch) Sanitary Contract Nos. 760 & 789	1. Install approximately 880 linear feet of 30-inch parallel relief sewer from JPIB49 to JPI10 (along JPIB9A-JPIB4) (SC760) 2. Install approximately 9,400 linear feet of 21- to 24-inch parallel relief sewer from JPI20 to JPI65 (SC789) 3. Rehabilitate approximately 3,300 linear feet of existing 18-inch sewer from JPI07 to JPI20 (SC789)	June 30, 2002	June 30, 2004	June 30, 2005	Eliminates SSO nos. 21, 22, 23, 24 and 29	Complete
2	Upper Jones Falls Interceptor (North & South Pumping Plant) Sanitary Contract Nos. 772 & 824	1. Rehabilitation of approximately 1,800 linear feet of existing 42- to 48-inch sewer located between JPI01 (Mt. Washington Flume) and JPI10, and approximately 6,570 linear feet of 48- to 66-inch sewer located between JPI10 and JPI20. Replacement of approximately 1,500 linear feet of 48" sewer between JPI10 and JPI18, and approximately 1,550 linear feet of 60" sewer between JPI70 and the Jones Falls Pumping Station (SC 772) 2. Replacement of approximately 7,080 linear feet of 48-inch sewer between JPI18 and JPI42 (SC 824). 3. Manhole and stream bank restoration.	June 30, 2004	December 27, 2006	12/30/2008 **	Eliminates SSO Nos. 33 and 34	SC 772- Practical Completion was achieved on June 30, 2006. SC 824 - Construction Phase** Letter sent to MDE and EPA on 6-25-07 requesting an extension of the SSO elimination date to December 2008. MDE response letter approving extension was received on September 5, 2007. Eliminated SSO Nos 33 and 34 on 12/10 and 12/23/08, respectively.
3	New Jones Falls Force Main/Pressure Sewer - Lower Section and Valves Improvements of existing force/pressure sewer Sanitary Contract Nos. SC779 & SC805	1. Replacement of approximately 1600 linear feet of force main/pressure sewer in Broadway from Oliver to East Chase Street connecting to High Level sewer (SC 779) 2. Improvements to gate valves, blow-off valves and air release valves for existing force main/pressure sewer (SC 805)	December 30, 2002	June 30, 2004	6/30/2005 - SEE STATUS	Contributes to elimination of SSO No. 5	SSO No. 5 cannot be eliminated until projects 4 and 5 are completed.
4	Jones Falls Pumping Station Force Main/Pressure Sewer Sanitary Contract No. 800	Upgrade existing force mains/pressure sewer to handle increased flows from rehabilitated/upgraded Jones Falls Pumping Station as well as additional flows from possible future pumping stations in Stony Run and along the JGA branch	June 30, 2005	12/29/2007**	May 2, 2008	Contributes to elimination of SSO No. 5	Construction Phase** Letter sent to MDE and EPA on 6-11-07 requesting additional 90 day practical completion extension to December 2007. MDE response letter received December 11, 2007. MDE received September 5, 2007. Letter sent to MDE and EPA on 12/17/07 requesting additional 60 day extension for practical completion. Practical completion occurred on 1/23/08. Extension request approval granted by MDE in a letter dated April 15, 2010. Awaiting response from EPA.
5	Jones Falls Pumping Station Sanitary Contract No. 822	Upgrade existing pumping station to handle at least 50 mgd	December 30, 2005	12/29/2007**	June 30, 2008	Eliminates SSO No. 5	Construction Phase** Letter sent to MDE and EPA on 6-11-07 requesting additional 90 day practical completion extension to December 2007. MDE response letter approving additional extension received September 5, 2007. Benifical Occupancy achieved 11/16/07.
6	Elimination of Collection System Overflows in Upper Jones Falls Sewershed Sanitary Contract No. 876	Assess hydraulics and design improvements to areas adjacent to overflows	Existing on-call contract	June 30, 2003	June 30, 2004	Eliminates SSO Nos. 20, 31, 32 and 36	Complete

Note: Shaded date cells indicate completion.



PROJ. ID NO.	PROJECT	DESCRIPTION AND REMARKS	DATE CONSTRUCTION CONTRACT ADVISED	DATE OF PRACTICAL COMPLETION	DATE SSO STRUCTURES ELIMINATED	SSO/CSO STRUCTURES ELIMINATED	STATUS
LOWER JONES FALLS SEWERSHED							
7	Lower Jones Falls Interceptor (Upper Portion of Gravity Mainline) Sanitary Contract Nos. 773 & 818	1. Install approximately 7,900 linear feet of 18- to 24-inch parallel relief sewer from JG630 (near Jones Falls Pumping Station) to JG61 (at the connection of the JGE branch) (SC418) 2. Rehabilitation of approximately 16,500 linear feet of existing sewer ranging from 12- to 50-inch (SC773) 3. Inverted siphon rehabilitation in Falls Road (mainline JG662) (SC773) 4. Stream bank restoration along Union Avenue near Meadow Mills at Woodberry	July 31, 2003	June 30, 2006	2/28/10***	Eliminates SSO No. 67	Post Construction Monitoring Phase. Monitoring period is extended at one site.
8	Stony Run Interceptor and Pumping Station (JGF Branch) -- Sanitary Contract No. 819, 838, 839 & 847	1. Construct a 20 mgd capacity pumping station near Department of Public Works Solid Waste Site near the intersection of 28th Street and Sisson Street. 2. Install approximately 1,200 linear feet of 24-inch force main from new pumping station to JFPS pressure sewer (length depends on location of pumping station) 3. Parallel approximately 10,000 linear feet of existing sewer from south of Coldspring Lane (JGF-48) to the new pumping station with 18 to 36-inch sewer	December 30, 2005 (SC-819 & 838) June 30, 2006 * (SC-839 & 847)	5/31/2009***	2/28/10***	Contributes to elimination of SSO No. 72; eliminates SSO No. 129	Practical completion was achieved on May 29, 2009 for the lower portion of the Stony Run Interceptor (SC - 839). Non-CD portion of the project is nearly complete. Flow monitor installed at new Stony Run Pump Station on August 26, 2009. The City submitted an extension request to EPA and MDE for SSO 67 and 72 dated February 16, 2010 requesting an extension to February 28, 2011. The City further submitted another extension letter dated February 15, 2011 requesting an extension to June 28, 2019 to complete the project. The City believes that the hydraulic restriction project at the BR-WWTP, which the City believes is a major contributor to not being able to eliminate these SSOs.
9	Maryland Avenue Interceptor (JGB Branch) Sanitary Contract No. 799	1. Replace (upsize) approximately 4,400 linear feet of existing 12- to 24-inch sewer with new 21- to 36-inch sewer along branch interceptor, excluding proposed 901 N. Howard project area 2. Improvements to siphon/SSO No. 125 under I-83 (JGB15-JGB19) 3. Sewer replacement may require crossing the CLRL	December 30, 2003	July 14, 2005 *	June 30, 2006	Eliminates SSO Nos. 69 & 125	Complete
10	Greenmount Avenue Interceptor (JGA Branch) * Sanitary Contract No. 820, 833	1. Install approximately 7,325 linear feet of 36 to 42-inch parallel relief sewer from Bonaparte Avenue to the High level Interceptor on Eager Street. 2. Line approximately 6,000 linear feet of 15- to 33-inch existing sewer.	December 30, 2005	12/27/07 **	2/28/10***	Contributes to elimination of SSO No. 72	Construction Phase. SC 833-Extension letter was sent on 12/7/07 for a 90 day extension through March 28, 2008. This extension was approved and a letter was received from EPA on June 27, 2008 was submitted. Available from MDE/EPA. Practical completion achieved on May 27, 2008. Monitoring period began July 25, 2008. In a letter dated 11/08/2011, EPA approved the minor schedule modification.
11	Elimination of Siphon Blowoff (Siphon No. 6 - south of North Avenue Bridge, west of RR tracks) Sanitary Contract No. 830	1. Cleaning and inspection of siphon with repairs as necessary. 2. Elimination of blow-off.	On-call contract	June 30, 2004	June 30, 2005	Eliminates SSO No. 68	Complete
HERRING RUN SEWERSHED							
12	Moore's Run Interceptor - Middle Section Storm Water Contract Nos. 7746 and 7751	Construction of approximately 400 linear feet of 18-inch, approximately 600 linear feet of 21-inch, approximately 490 linear feet 24-inch, and approximately 100 linear feet of 30-inch sewer to replace existing interceptor	June 30, 2003	July 14, and Sept 2, 2005**	June 30, 2006	Contributes to elimination of SSO Nos. 118 and 119	Complete
13	Moore's Run Interceptor - Lower Section Sanitary Contract No. 801 and 843	Construction of approximately 6900 linear feet of 42-inch, approximately 2700 linear feet of 36-inch siphon, and approximately 3700 linear feet of 54-inch sewer to replace the existing interceptor	June 30, 2005	June 30, 2007	June 30, 2008	Eliminates SSO No. 93 and 94	Construction Phase - Complete
14	Moore's Run Interceptor - Upper Section Sanitary Contract No. 817	Construction of approximately 1700 linear feet of 18-inch and approximately 2200 linear feet of 21-inch sewer to replace the existing interceptor	June 30, 2004	June 30, 2005	June 30, 2006	Contributes to elimination of SSO Nos. 118 and 119	Complete
15	Elimination of Collection System Overflows in Herring Run Sewershed	Assess hydraulics and design improvements to areas adjacent to overflows	Existing on-call contract	June 30, 2003	June 30, 2004	Eliminates SSO Nos. 88 and 109	Complete
16	Elimination of Siphon Blowoffs (Siphon No. 2 - Bay View Yard south of RR tracks; Siphon No. 4 - Bowleys Lane/Moravia Road) Sanitary Contract No. 830	1. Cleaning and inspection of siphons with repairs as necessary. 2. Elimination of blow-offs.	On-call contract	June 30, 2004	June 30, 2005	Eliminates SSO Nos. 92	Complete*

Note: Shaded date cells indicate completion.



PROJ. ID NO.	PROJECT	DESCRIPTION AND REMARKS	DATE CONSTRUCTION CONTRACT ADVERTISED	DATE OF PRACTICAL COMPLETION	DATE SSO STRUCTURES ELIMINATED	SSO/CSO STRUCTURES ELIMINATED	STATUS
<b>GWYNNS FALLS SEWERSHED</b>							
17	Powder Mill System Improvements including GFG branch in Gwynns Falls Sewershed Sanitary Contract Nos. 777 & 804	Rehabilitation of approximately 12,000 linear feet of 12- to 24-inch conveyance piping (SC777) and approximately 33,000 linear feet of 8- to 10-inch collection piping (SC804)	June 30, 2003	June 30, 2006	June 30, 2007	Eliminates SSO Nos. 28P, 29P and 33P	Complete
18	Dead Run System Improvements DRA Branch Sanitary Contract No. 788, 825	Clean, inspect and rehabilitate of approximately 20,000 linear feet of 12- to 24-inch conveyance piping (GOE) and approximately 11,000 linear feet of 8- to 12-inch collection piping (SC788).	June 30, 2003	June 30, 2006	June 30, 2007	Eliminates SSO Nos. 16P and 17P	Complete
19	Maddens Choice Interceptor Sanitary Contract No. 826	Clean, inspect, and rehabilitate 12,400 linear feet of 12- to 24-inch conveyance piping.	On-call contract	June 30, 2007	June 30, 2008	Eliminates SSO Nos. 23P and 24P	Construction Phase - Complete
20	Elimination of Siphon Blowoffs (Siphon No. 11 - Annapolis Road and Clare Street; Siphon No. 12 - Chesholm Rd. west of Franklinton Rd.) SC No. 827	1. Cleaning and inspection of siphons with repairs as necessary. 2. Elimination of blow-offs.	On-call contract	June 30, 2004	June 30, 2005	Eliminates SSO Nos. 84 and 22P	Complete*
<b>COMBINED SEWER AREAS</b>							
21	Walbrook Sanitary Contract No. 780	Implementation of Long Term Control Plan and combined sewer separation design in Walbrook area		June 30, 2002	June 30, 2003	Eliminates CSO No. 21P	Complete
22	Forest Park Sanitary Contract Nos. 780 and 813	Implementation of Long Term Control Plan and combined sewer separation design in Forest Park area	December 30, 2003	June 30, 2005	June 30, 2006	Eliminates CSO No. 13P and SSO Nos. 10P, 11P, 12P, 18P, 19P, 25P, 26P, 27P and 31P. SSO Nos. 10P, 18P, 19P & 31P are eliminated.	Complete
<b>HIGH LEVEL SEWERSHED</b>							
23	Gwynns Run Interceptor Sanitary Contract No. 812	Improvements to the Gwynns Run Interceptor	December 30, 2004	February 25, 2007	12/27/2007**	Eliminates SSO Nos. 106, 107 and 130	Complete
24	Gwynns Run System Improvements Sanitary Contract No. 807	Assess hydraulics and design improvements to areas adjacent to overflows	June 30, 2003	June 30, 2006	June 30, 2007	Eliminates SSO Nos. 55, 56, 57, 60, 63, 103, 126, 127, 128 and 131	Complete
25	Elimination of Siphon Blowoffs (Siphon Nos. 9 and 10 - east of Dukenland Street, south of Wilkens Avenue) SC No. 827	1. Cleaning and inspection of siphons with repairs as necessary. 2. Elimination of blow-offs.	On-call contract	June 30, 2004	June 30, 2005	Eliminates SSO Nos. 79 and 81	Complete*
<b>LOW LEVEL SEWERSHED</b>							
26	Elimination of Siphon Blowoff (Siphon No. 8 - rear of 800 Unetta Avenue) Sanitary Contract No. 827	1. Cleaning and inspection of siphon with repairs as necessary. 2. Elimination of blow-off.	On-call contract	June 30, 2004	June 30, 2005	Eliminates SSO No. 32P	Complete
<b>* Approved by MDE/EPA. ** Approved by MDE, *** Approved by EPA</b>							



# **APPENDIX 2**

## **STATUS OF PARAGRAPH 9 CONSTRUCTION PROJECTS**



**STATUS OF PARAGRAPH 9 CONSTRUCTION PROJECTS**  
As of September 30, 2015

Proj. No.	PROJECT	DESCRIPTION AND REMARKS	DATE CONSTRUCTION CONTRACT ADVISED	DATE OF CONSTRUCTION COMPLETION	DATE OF EVALUATION COMPLETION	STATUS
<b>JONES FALLS SEWERSHED</b>						
JF-1	Lower Jones Falls Sewer Cleaning	SC 876 - The work includes the Lower Jones Falls Interceptor, located in the gravity sewage collection system. Typical work includes initial SONAR assessment of the sanitary sewers to quantify sediment and debris levels, cleaning 8,400 feet of 10" to 75" sanitary sewers between Falls Rd Siphon to the High Level Interceptor, with proper disposal of removed material, and post cleaning CCTV/SONAR/Laser assessment to document the internal condition of the pipes.	5/20/2009 (A)	1/1/2012 (A)	1/1/2013 (A)	This contract was awarded to Video Pipe Services (VPS) on October 21, 2009. The Cleaning of the Lower Jones Falls and Maryland Ave. Siphon Cleaning were combined into one Project (SC 876).
JF-2	Maryland Avenue Sewer Siphon Cleaning	SC 876 - The work includes Maryland Avenue Siphon, and sewers upstream of the Maryland Avenue Siphon (18 and 24-inch sewer siphon). Typical work includes initial SONAR assessment of the sanitary sewers to quantify sediment and debris levels, cleaning of Maryland Avenue Siphon, and various sewers upstream of the Maryland Avenue Siphon, with proper disposal of removed material, and post cleaning CCTV/SONAR/Laser assessment to document the internal condition of the pipes.	5/20/2009 (A)	1/1/2013 (A)	1/1/2014 (A)	This contract was awarded to Video Pipe Services (VPS) on October 21, 2009. The Cleaning of the Lower Jones Falls and Maryland Ave. Siphon Cleaning were combined into one Project (SC 876).
JF-3	Upper Jones Falls Interceptor Reactivation	Reactivation of an inactive 42-inch diameter interceptor sewer along Jones Falls from Northern Parkway (MH S19CC, 2045MH) to Cold Spring Lane (MH S19OO, 1042MH). Prior to reactivation of the 42-inch sewer, an internal inspection of the sewer was necessary to find the actual condition of the line. The City utilized its technical support consultant (KCI) to carry out the inspection process. The field work was started in September 2009 and their findings were completed and a final report was delivered on June 30, 2010.	07/15/2009 (A)	08/08/2010 (A)	N/A	Per Consultant's (KCI) evaluation of the inspection and cleaning work, the line is in fairly good condition and can be re-activated without any major repair/rehabilitation work. This project is complete and the City will utilize this line in the future as deemed necessary a Construction project will not be pursued. All Future work for this pipe will be tracked independently by the City. Conditional Acceptance was on 11/17/10, and Final Acceptance was on 09/22/11.
JF-4	SC 895 - MD Ave Sewer Rehab	SC 895 - Repair and rehabilitation of sanitary sewer and manholes in the Maryland Ave sub-sewershed of the Jones Falls Sewershed.	11/04/11 (A)	05/20/13 (A)	5/8/14 (A)	Bids were opened on 12/14/11 and AM Liner was the lowest bidder. Contract was awarded to AM Liner on 03/21/2012. Pre-construction meeting was held on May 17, 2012. Construction began June 2012. Fourth construction progress meeting was held on March 20, 2013. Last construction progress meeting was held on May 08, 2013. Construction completed.
JF-5	SC 898 - Story Run Area	Repair and rehabilitation of sanitary sewer and manholes in the Story Run Area of the Jones Falls Sewershed.	7/27/2012 (A)	2/7/2015 (P)	2/7/2016 (P)	The project was advertised on 7/27/12. The lowest bidder is Insituform Technologies. Award date is 12/19/12 and NTP issued on 2/8/13. Project in liquidated damages
JF-6	SC 899 - Western Run Area	Repair and rehabilitation of sanitary sewer and manholes in the Western Run Area of the Jones Falls Sewershed.	7/27/2012 (A)	11/30/2014 (P)	11/30/2015 (P)	The project was advertised on 7/27/2012. The lowest bidder is Insituform Technologies. Award date is 12/19/12 and NTP issued on 2/8/13. Project in liquidated damages
JF-7	SC 900 - Upper Jones Falls and Maryland Avenue	Repair and rehabilitation of sanitary sewer and manholes in the Upper Jones Falls and Maryland Avenue areas of the Jones Falls Sewershed.	7/27/2012 (A)	2/2/2015 (P)	2/2/2016 (P)	The project was advertised on 7/27/2012. The lowest bidder is Insituform Technologies. Award date is 12/19/12 and NTP issued on 2/8/13. Project in liquidated damages
JF-8	SC 897R - Greenmount, Hampden and Bollon Hill	Repair and rehabilitation of sanitary sewer and manholes in the Greenmount, Hampden, and Bollon Hill areas of the Jones Falls Sewershed.	3/22/2013 (A)	3/14/2015 (P)	3/14/2016 (P)	The contract was advertised on 3/22/13. The lowest bidder is Insituform Technologies. Award date is 6/26/13 and NTP issued on 6/27/13. Project in liquidated damages
<b>OUTFALL SEWERSHED</b>						
OF-1	Sediment Cleaning Trunk Sewers in City of Baltimore.	SC 894 - Cleaning of Outfall Sewershed 99-inch and Outfall Interceptor (From N. Bond Street to 6300 Block of E. Lombard Street)	08/05/11 (A)	04/12/2014 (A)	4/12/2015 (A)	This contract was awarded to Metra Industries, who was the lowest bidder, on 6/8/11. NTP was issued on 8/8/11. Cleaning of the outfall stopped as of 6/25/12. Project re-started on 4/29/13 and was completed on 4/27/14.
OF-2	SC934 - CLEANING OF THE OUTFALL INTERCEPTOR AND RELIEF SEWERS - PHASE II	Cleaning of the relief sewer and outfall interceptor - phase II	12/13/2013 (A)	9/5/2015 (P)	9/5/2016 (P)	The contract was advertised on 12/13/13. The lowest bidder is Metra Industries. Award date is 3/12/14 and NTP issued on 4/24/14.
OF-3	SC919 - Sewer Rehab in the Outfall Sewershed	SC 919 - Sewer Rehab in the Outfall Sewershed	7/17/2015 (A)	1/17/2018 (P)	1/17/2019 (P)	The contract was advertised on 7/17/2015. Bid opening is 8/26/2015.



**STATUS OF PARAGRAPH 9 CONSTRUCTION PROJECTS**  
**As of September 30, 2015**

HIGH LEVEL SEWERSHED						
HL-1	Liberty Heights Relief Sewer	SC 879 - Design and construction 18" Relief Sewer from intersection of Springdale Rd and N Hilton St to intersection of Vabash Ave and Liberty Heights Ave. (S09JUJ 007MH to S13UJ 008MH). Work includes excavation and removal of existing 12 inch sewer line, installation of 2400 LF of new 18-inch sewer line and relocation of 720 LF of 20-inch water line. Evaluation phase will include continual monitoring of existing engineered SSOs 132, 134 and 135 to ensure no overflows	2/10/2012 (A)	4/11/2014 (A)	4/11/2015 (A)	The contract was advertised on 2/10/12. Bids were due by 3/21/12, but date was extended to 4/4/12. The contract was awarded on 9/26/12 to Monumental Paving and Excavating Inc. First construction progress meeting was held on 3/20/13.
HL-2	SC907 - East Baltimore Region	SC 907 - Repair and rehabilitation of sanitary sewer and manholes in the East region of the High Level Sewershed.	3/22/2013 (A)	7/8/2015 (P)	7/8/2016 (P)	The contract was advertised on 3/22/13. The lowest bidder is Inland Waters. The project was awarded on 8/14/13 and NTP was issued on 11/11/13. Project in liquidated damages
HL-3	SC906 - West Baltimore Region	SC 906 - Repair and rehabilitation of sanitary sewer and manholes in the West region of the High Level Sewershed.	5/10/2013 (A)	11/5/2015 (P)	11/5/2016 (P)	The contract was advertised on 5/10/13. Lowest Bidder is SAK Construction. The contract was awarded on 11/13/13 and NTP issued on 2/5/14.
HL-4	SC932 - Improvements to Lower Gwynns Run Interceptor – Phase II From Franklin Street to Baltimore Street	SC 932 - Improvements to Lower Gwynns Run Interceptor – Phase II From Franklin Street to Baltimore Street - microtunneling project	7/26/2013 (A)	11/25/2015 (P)	11/25/2016 (P)	The contract was advertised on 7/26/13. Lowest Bidder is Bradshaw Construction. Contract was awarded on 3/12/14 and NTP issued on 5/28/14.
HL-5	SC933 - High Level Interceptor Cleaning	SC 933 - cleaning of the High Level Interceptor	7/26/2013 (A)	7/29/2015 (P)	7/29/2016 (P)	The contract was advertised on 7/26/13. Lowest Bidder is Video Pipe Services Construction. Due to an unbalanced bid, the contract will be awarded to the second lowest bidder, Proven Management. Award date is 4/23/14 and NTP issue date is 7/30/14
HL-6	SC905 - North Region of High Level Sewershed	SC 905 - Repair and rehabilitation of sanitary sewer and manholes in the North region of the High Level Sewershed.	10/11/2013 (A)	6/1/2015 (A)	6/1/2015 (P)	The contract was advertised on 10/11/13. Lowest Bidder is Spinnello. Contract was awarded on 3/19/14 and NTP issued on 6/2/14. Project completed.
Herring Run Sewershed						
HR-1	SC911 - Herring Run Sewer Improvement	SC 911 - Repair and rehabilitation of sanitary sewer and manholes in the Herring Run Sewershed.	8/16/2013 (A)	11/14/2015 (P)	11/14/2016 (P)	The contract was advertised on 8/16/13. Lowest Bidder is AM Liner East. Contract was awarded on 2/5/14 and NTP issued on 5/14/14.
HR-2	SC908 - Herring Run Sewer Improvement	SC 908 - Repair and rehabilitation of sanitary sewer and manholes in the Herring Run Sewershed.	9/6/2013 (A)	1/15/2016 (P)	1/15/2017 (P)	The contract was advertised on 9/6/13. Lowest Bidder is Anchor Construction. Due to issues with MBE/WBE, the contract was awarded to the second lowest bidder AM Liner East. Contract was awarded on 2/5/14 and NTP issued on 5/1/14.
HR-3	SC909 - Herring Run Sewer Improvement	SC 909 - Repair and rehabilitation of sanitary sewer and manholes in the Herring Run Sewershed.	10/11/2013 (A)	9/30/2015 (P)	9/30/2016 (P)	The contract was advertised on 10/11/13. Lowest Bidder is Inland Construction. Contract was awarded on 1/29/14 and NTP issued on 4/2/14.
HR-4	SC937 - Improvements to Sanitary Sewers in HR07A and along Chesterfield Avenue in Herring Run Sewershed	Improvements to Sanitary Sewers in HR07A and along Chesterfield Avenue in Herring Run Sewershed	7/17/2015 (A)	7/17/2017 (P)	7/17/2018 (P)	The contract was advertised on 7/17/2015. Bid opening is 8/19/2015.
Low Level Sewershed						
LL-1	SC922R - Low Level Interceptor Cleaning	SC 922R - cleaning of the Low Level Interceptor	1/31/2014 (P)	9/30/2015 (P)	9/30/2016 (P)	The contract was advertised on August 16, 2013. Lowest Bidder is Video Pipe Services Construction. Due to unbalanced bids, this contract was readvertised on 2/7/14. Lowest Bidder is Video Pipe Services Construction. Award date is 7/23/14. NTP issued on 10/1/2014.
LL-2	SC913 - Western Region of Low Level	SC 913 - Repair and rehabilitation of sanitary sewer and manholes in the Western Region of the Low Level Sewershed.	9/20/2013 (A)	10/8/2015 (P)	10/8/2016 (P)	The contract was advertised on 9/20/13. The lowest bidder is Meira. Contract was awarded on 2/12/14 and NTP issued on 4/17/14.
LL-3	SC912 - Eastern Region High Level	SC 912 - Repair and rehabilitation of sanitary sewer and manholes in the Eastern Region of the Low Level Sewershed.	9/20/2013 (A)	8/28/2015 (P)	8/28/2016 (P)	The contract was advertised on 9/20/13. The lowest bidder is Insulform. Contract awarded on 1/15/14 and NTP issued on 3/7/14.
LL-4	SC914 - Improvements to Sanitary Sewers in Low Level Sewershed	SC 914 - Improvements to Sanitary Sewers in Low Level Sewershed	6/26/2015 (A)	12/30/2017 (P)	12/30/2018 (P)	The contract was advertised on 6/26/2015. Bid opening is 7/29/2015.

Note: Shaded date cells indicate completion.



**STATUS OF PARAGRAPH 9 CONSTRUCTION PROJECTS**  
**As of September 30, 2015**

Gwynns Falls Sewershed						
GF-1	SC 920 - South Area Gwynns Falls	SC 920 - Improvements to the Gwynns Falls Sewershed Collection System - Area A	6/6/2014 (A)	4/5/2016 (P)	4/5/2017 (P)	The contract was advertised on 6/6/14. The lowest bidder is SAK Construction. NTP was issued on 1/12/2015.
GF-2	SC 939R - Maidens Choice Pressure Sewer Inspection and Uplands Sewer Rehab	SC 939R - Maidens Choice Pressure Sewer Inspection and Uplands Sewer Rehab	6/26/2015 (A)	6/30/2016 (P)	6/30/2017 (P)	The contract was advertised on 6/26/2015. Bid opening is 7/29/2015.
Dundalk Sewershed						
DD-1	SC 902 - Sewer Rehab in the Dundalk	SC 902 - Sewer Rehab in the Dundalk Sewershed	3/6/2015 (A)	9/15/2017 (P)	9/15/2018 (P)	The contract was advertised on 3/6/15. Bid opening is 4/8/2015. The lowest bidder is Spiniello. NTP was issued on 10/14/2015
Patapsco Sewershed						
PA-1	SC 903 - Sewer Rehab in the Patapsco Sewershed	SC 903 - Sewer Rehab in the Patapsco Sewershed	7/24/2015 (A)	1/24/2018 (P)	1/24/2019 (P)	The contract was advertised on 7/24/2015. Bid opening is 8/26/2015.

Key: "SS - XX" = Sewershed Name - CD Project No.

Note: Shaded date cells indicate completion.



# **APPENDIX 3**

## **LIST OF ILLEGAL CONNECTIONS**



**City of Baltimore Sanitary Sewer Overflow Consent Decree**  
 Civil Action No. JPM-02-1524  
**List of Illegal Connections**

Full Address	Test ID	Person/Entity Responsible	Source Type	Date Identified	Dye Result	Current Status	Comments
1. 5904 Berkeley Ave.	172 B 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
2. 6203 Baltimore Ave.	311 A 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
3. 3310 Clarks Ln.	212 B 7	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
4. 3312 Clarks Ln.	212 B 6	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
5. 3601 Clarks Ln.	256 B 1	Property Owner	Area Drain	3/21/2005	Positive	Newly Identified	Confirmed Not Illegal
6. 2238 Crest Rd.	14 A 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
7. 2302 Crest Rd.	13 A 5	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
8. 5618 Cross Country Blvd.	13 A 6	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
9. 6309 Fairlane Dr.	159 A 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
10. 6309 Fairlane Dr.	159 B 1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
11. 6908 Fieldcrest Rd.	277 B 3	Property Owner	Downspout Connection	6/20/2005		Newly Identified	Confirmed Not Illegal
12. 6908 Fieldcrest Rd.	277 B 3	Property Owner	Downspout Connection	6/20/2005		Newly Identified	Confirmed Not Illegal
13. 3800 Glenlyne Ave.	275 B 13	Property Owner	Downspout Connection	6/20/2005		Newly Identified	Confirmed Not Illegal
14. 6309 Greenspring Ave.	153. B 5	Property Owner	Downspout	4/3/2011		Illegal	It was confirmed as an illegal connection in January 2011 after carrying out dye-testing. A letter was sent to the property owner on August 08, 2011. A follow up letter dated 01/05/2012 was sent to the property owner requesting that the drain be disconnected. Corrective action has been taken. This location was tested and confirmed that the problem has been abated.
15. 2212 Ken Oak Rd.	153 B 4	Property Owner	Area Drain	3/28/2005	Positive	Newly Identified	Confirmed Not Illegal
16. 2212 Ken Oak Rd.	100 A 1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
17. 2212 Ken Oak Rd.	100 A 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
18. 2416 Ken Oak Rd.	103 A 1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
19. 5609 Key Ave.	50 B 4	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
20. 2504 Lantvale Rd.	154 B 7	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
21. 5815 Lochlea Rd.	116 B 1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
22. 4424 Marble Hall Road		Property Manager	Stormwater Drain	4/13/2011		Illegal	A letter was sent to HCD on May 25, 2011, for further action. A violation notice was issued in July 2011. A meeting was held on July 26, 2011, with Marble Hall Apartment management to discuss the progress of relocating the illegal connection. Per the management of the apartment complex, the illegal connection was re-routed in August 2011. Follow up testing was conducted on September 14, 2011, indicating that the fix has not worked and water getting into the sanitary system. Further coordination is being done to permanently resolve the issue. A letter dated 11/28/11 was sent to HCD to continue enforcement. Property owner is not responsive. DPW will coordinate with HCD for enforcement. <b>This violation has been corrected. A City representative visited the site and conducted visual inspection and dye test on March 11, 2013 to confirm. This location is closed.</b>
23. 3 Millbrook Rd.	D 1	Property Owner/Trustee	Patio Drain	5/19/2011		Illegal	It was confirmed as an illegal connection in May 2011 after carrying out more dye-testing. A letter was sent to the property owner on August 08, 2011. A follow up letter dated 11/28/11 was sent to the property owner requesting that the temporary seal becomes permanent.
24. 5806 Park Heights Ave.	78 B 4	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
25. 5806 Park Heights Ave.	78 B 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
26. 5806 Park Heights Ave.	78 B 3	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
27. 5806 Park Heights Ave.	78 B 9	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
28. 5905 Park Heights Ave.	78 B 8	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
29. 5905 Park Heights Ave.	95 B 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
30. 6414 Park Heights Ave.	315 A 4	Property Owner	Downspout Connection	6/20/2005		Newly Identified	Confirmed Not Illegal
31. 6414 Park Heights Ave.	315 A 3	Property Owner	Area Drain	3/22/2005	Positive	Newly Identified	Confirmed Not Illegal
32. 7126 Park Heights Ave.	280 B 16	Property Owner	Downspout Connection	6/20/2005		Newly Identified	Confirmed Not Illegal
33. 6311 Pearce Ave.	203 B 5	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
34. 6106 Rinitco Rd.	203 B 4	Property Owner	Driveway Drain	6/20/2005	Positive	Newly Identified	Confirmed Not Illegal
35. 6306 Rinitco Rd.	135 A 1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
36. 5903 Rusik Ave.	127 B 1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
37. 5903 Rusik Ave.	300 B 1	Property Owner	Driveway Drain	6/20/2005		Newly Identified	Confirmed Not Illegal
38. 3208 Shelburne Rd.	334 A 1	Property Owner	Driveway Drain	3/15/2005	Positive	Newly Identified	Confirmed Not Illegal
39. 1702 South Rd.	324 A 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
40. 2117 Sudgrave Ave.	320 B 6	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
41. 2607 Toney Rd.	183 B 1	Property Owner	Driveway Drain	3/23/2005	Positive	Newly Identified	Confirmed Not Illegal
42. 2607 Toney Rd.	183 B 2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
43. 2708 Toney Rd.	183 B 8	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
44. 2808 Toney Rd.	183 B 6	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
45. 2808 Toney Rd.	182 B 5	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
46. 2810 W. Strathmore Ave.	182 B 5	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
47. 3602 Chesholm Rd.	180 A 5	Property Owner	Downspout	5/9/2005	Positive	Newly Identified	Confirmed Not Illegal
48. 6708 Park Heights Ave.		Property Owner	Downspout	5/9/2005	Positive	Newly Identified	Confirmed Not Illegal
49. 4214 Groveland Ave.		Property Owner	Downspout	5/9/2005	Positive	Newly Identified	Confirmed Not Illegal
50. 4414 Groveland Ave.		Property Owner	Downspout	5/9/2005	Positive	Newly Identified	Confirmed Not Illegal
51. 2705 Queen Anne Ave.		Property Owner	Downspout	5/9/2005	Positive	Newly Identified	Confirmed Not Illegal
52. 5614 Seward Ave		Property Owner	Swimming Pool	8/9/2011	Positive	Illegal	A letter dated 12/9/11 was sent to the property owner requesting that the drain be disconnected from the sanitary line. The illegal connection was removed by the owner.



# **APPENDIX 4**

## **PUMPING STATION WORK ORDERS**



Co.	No.	Area	Machine	Machine Description	W0	Sts	P Intr	Short problem Description	Full Problem Description	Craft	W0	Wrk Sht
			Number				Code	Number		Req. Code	Issue	Typ dwn
										By	Date	Cls
11		CLINT	991125	CLINTON ST. FORCE MAIN	25	4	MKA	13.81374	PENG-ATTEND MEETING W/CON 930.	RK	PENG	20121219 W51
Total * PENG * Work Orders:												
COUNT 1												
Area * * Work Orders:												
COUNT 1												
PUMPING ST BRKLYN 951000 FACILITY, BROOKLYN PUMPING												
		BRKLYN	951000	FACILITY, BROOKLYN PUMPING	25	3		14.80891	BLDG- REPAIR ROOF LEAK (E stielperc 64972	CS	BLDG	20131021 W18
		BRKLYN	951000	FACILITY, BROOKLYN PUMPING	25	3D		12.80842	BLDG-MAKE REPAIRS TO WOO in back of sta. Sullivan 6-4972	US		20110913 W08
		BRKLYN	951000	FACILITY, BROOKLYN PUMPING	25	4		13.82703	BLDG- REPAIR LEAK IN ROOF room} stielperc 64972	CS		20130611 W58
		BRKLYN	951000	FACILITY, BROOKLYN PUMPING	25	4		15.80820	BLDG-BUILD STEPS FOR HYD TANK TO MAKE WORKING ON UNIT EASTER. REQ. BY W.HOOKS 65701	WH		20141006 W58
		BRKLYN	951000	FACILITY, BROOKLYN PUMPING	25	4		15.82249	BLDG- REPAIR ROOF LEAKS - see Chris stielperc } 64972	CS		20130620 W15
		BRKLYN	95770	FOUNTAIN, DRINKING WATER	25	4		15.82654	1 BLDG/HIA-REPAIR OR REPLACE cooler	WJ		20150626 W15
		BRKLYN	951000	FACILITY, BROOKLYN PUMPING	25	4		16.80027	BLDG- SPRAY METHWELL AND B REQ BY R BARTONJR	RBJ		20150722 W55
		BRKLYN	951000	FACILITY, BROOKLYN PUMPING	25	4		16.80397	BLDG- REPLACE TOILET SEAT in bathroom stielperc 64972	CS		20150817 W15
		CAROL	985302	PUMP-STORM DRAIN #2	25	4		16.80391	BLDG-PAINT #2 PUMP AT CAR SEE J MAROCK	JCN		20150814 W26
		DUNDAL	941000	FACILITY, DUNDALK PUMPING	25	3D		15.81059	BLDG- REPAIR/REPLACE DOO STIELPERC 64972	CS		20150105 W15
		DUNDAL	941000	FACILITY, DUNDALK PUMPING	25	3D		15.81875	BLDG.-CONSTRUCT SCAFFOLDI at Dundalk pumping station. See Keith Raynor 6-9748	JCN		20150318 W68
		DUNDAL	941000	FACILITY, DUNDALK PUMPING	25	4		14.81687	BLDG- REPAIR BROKEN LOCK on back door stielperc 64972	CS		20140114 W08
		DUNDAL	941000	FACILITY, DUNDALK PUMPING	25	4		14.81940	BLDG-ROOF LEAKING ONTO EL EQUIPMENT.	JAD		20140220 W58
		DUNDAL	941000	FACILITY, DUNDALK PUMPING	25	4		14.82463	BLDG- REPAIR FLUSH VALVE toilet (leaking} stielperc 64972	CS		20140512 W71
		DUNDAL	941000	FACILITY, DUNDALK PUMPING	25	4		15.81061	BLDG-SCRAPE AND PAINT STA PUMP ROOM.	CC		20150105 W26
		DUNDAL	941000	FACILITY, DUNDALK PUMPING	25	4		15.81062	M, BCKRHID TEST			20150105
		DUNDAL	941000	FACILITY, DUNDALK PUMPING	25	4		15.81652	BLDG-PAINT STATION FRONT scape and paint W. Johnson 6-5194	WJ		20150302 W26
		DUNDAL	941000	FACILITY, DUNDALK PUMPING	25	4		15.81871	BLDG- INSPECT ROOF (LEAKIN W. JOHNSON 6-4972	WJ		20150311 W18
		DUNDAL	947803	FOUNTAIN, WATER	25	4		15.82656	1 BLDG/HIA-REPAIR OR REPLACE cooler	WJ		20150626 W15
		DUNDAL	941000	FACILITY, DUNDALK PUMPING	25	4		16.80013	BLDG-REPLACE TOILET SEAT, to the floor	WJ		20150710 W15
		DUNDAL	941000	FACILITY, DUNDALK PUMPING	25	4		16.80030	BLDG-SPRAY METHWELL, AND BL REQ BY R BARTON JR	RBJ		20150722 W55
		EASTER	911000	FACILITY, EASTERN AVENUE	25	2		15.81860	BLDG-SNAKE DRAIN AT PUMP REQ BY C.STIELPER 6-4972	CS		20150306 W35
		EASTER	911000	FACILITY, EASTERN AVENUE	25	3D		13.80593	BLDG-REPAIR FLOAT IN TOIL stielperc 64972	CS		20120911 W71
		EASTER	911000	FACILITY, EASTERN AVENUE	25	3D		13.82258	BLDG-REPLACE BATHROOM DO in computer room. Sullivan 6-4972	US		20130501 W08
		EASTER	911000	FACILITY, EASTERN AVENUE	25	3D		13.82260	BLDG-CAULK WINDOWS IN CO Sullivan 6-4972	US		20130501 W08
		EASTER	911000	FACILITY, EASTERN AVENUE	25	3D		15.80621	BLDG-PIPE-TOLIET LEAKING REQ BY R BARTON JR	RBJ		20140924 W18
		EASTER	911000	FACILITY, EASTERN AVENUE	25	3D		15.81017	BLDG- REPAIR SCREEN ROOM STIELPERC 64972	CS		20141110 W08
		EASTER	911000	FACILITY, EASTERN AVENUE	25	3D		15.81022	BLDG- REPLACE MOLDED CEIL ALL OFFICES STIELPERC 64972	CS		20141114 W15
		EASTER	911000	FACILITY, EASTERN AVENUE	25	3D		15.81033	BLDG- REPLACE DOOR CLOSUR stielperc 64972	CS		20141125 W08
		EASTER	911000	FACILITY, EASTERN AVENUE	25	3D		15.81631	BLDG-SCRAPE PAINT SCREEN {stielperc 64972			20150209 W26
		EASTER	911000	FACILITY, EASTERN AVENUE	25	4		12.82124	BLDG-PAINT SMALL BACK ROO stielperc 64972	CS		20120124 W26
		EASTER	911000	FACILITY, EASTERN AVENUE	25	4		13.81888	BLDG-CARP-REPAIR OR REPLA REQ BY R BARTON	RBJ		20130318 W15
		EASTER	911000	FACILITY, EASTERN AVENUE	25	4		13.82237	BLDG / PAINT BACK ROOM FL stielperc 64972	CS		20130415 W26
		EASTER	911000	FACILITY, EASTERN AVENUE	25	4		14.81677	BLDG-ROOF LEAKING,SECONDA REQ BY C.STIELPER	CS		20140106 W58
		EASTER	911000	FACILITY, EASTERN AVENUE	25	4		14.82488	BLDG- REPAIR SCREEN ROOM see chris 64972	CS		20140530 W15
		EASTER	911000	FACILITY, EASTERN AVENUE	25	4		15.80004	BLDG- UNLOG DRAIN LINE ( stielperc 64972	CS		20140707 W35
		EASTER	911000	FACILITY, EASTERN AVENUE	25	4		15.80020	BLDG- -PAINT OFFICE WALLS stielperc 64972	CS		20140723 W26
		EASTER	911000	FACILITY, EASTERN AVENUE	25	4		15.80828	BLDG- REPAIR DOOR SCREEN stielper 64972	CS		20141009 W68
		EASTER	911203	PUMP, SEWAGE PUMP #3	25	4		15.81867	BLDG-PAINT PUMP MOTOR AND WJ	WJ		20150310 W26
		EASTER	911204	MOTOR, SEWAGE PUMP #4	25	4		15.81868	BLDG-PAINT PUMP MOTOR AND WJ	WJ		20150310 W26
		EASTER	911205	MOTOR, SEWAGE PUMP #5	25	4		15.81869	BLDG-PAINT PUMP MOTOR AND WJ	WJ		20150310 W26
		EASTER	911818	FOUNTAIN, WATER	25	4		15.82653	1 BLDG/HIA-REPAIR OR REPLACE cooler	WJ		20150626 W15



Co.	No.	Area	Loc.	Machine Number	Machine Description	W/O Sts	Plnr Prty Code	W/O	Short problem Description	Full Problem Description	Req. Code	Craft W/O	Issue Date	Wk Sht Typ	Ch
	11	PUMPING ST	EASTER 911818	FOUNTAIN-WATER		25	4	16.80002	BLDS-LOW WATER PRESSURE.W H. JOHNSON 6-4972		HJ	BLDG	20150708	W15	
		JF	920012	METER-OVERBOARD (LEVEL		25	3D	14.82473	BLDG-CARP- MAKE BOX/COVER REQ BY R BARTON JR		RBJ		20140516	W08	
		JF	921000	FACILITY,JONES FALLS		25	3D	14.82481	BLDS/REPAIR HIME ON OFFI stielperc 64972		CS		20140522	W15	
		JF	920091	PLC/LOCAL CONTROL STATION		25	3D	15.82347	BLDG-INSTALL PLYWOOD TO M REQ BY C-STIELPER		CS		20150519	W58	
		JF	921000	FACILITY,JONES FALLS		25	4	13.81912	BLDS/REPAIR FRONT DOOR IC stielperc 64962		CS		20130327	W08	
		JF	921000	FACILITY,JONES FALLS		25	4	14.80890	BLDS/ REPAIR ROOF LEAK { vent pipe } stielper 64972		CS		20131021	W18	
		JF	921000	FACILITY,JONES FALLS		25	4	14.82432	BLDS/ REPAIR OFFICE WINDOW stielperc 64972		CS		20140423	W15	
		JF	925702	FOUNTAIN-WATER COOLER		25	4	15.82552	1 BLDS/HA-REPAIR OR REPLACE water cooler		HJ		20150626	W15	
		JF	921000	FACILITY,JONES FALLS		25	4	16.80031	BLDG- SPRAY METHWELL AND B REQ BY R BARTON JR		RBJ		20150722	W55	
		JF	921000	FACILITY,JONES FALLS		25	4	16.80407	BLDS-REPLACE LARGE PAPER in bathroom		HJ		20150818	W15	
		LOCP0	985000	FACILITY,LOCUST POINT		25	3D	12.80836	BLDG-CINDER BLOCKS APART door frame. Sullivan 6-4972		US		20110913	W08	
		LOCP0	985000	FACILITY,LOCUST POINT		25	4	14.82487	BLDS/REPLACE TOILET {CRAC stielperc 64972		CS		20140530	W15	
		LOCP0	985000	FACILITY,LOCUST POINT		25	4	16.80006	1 BLDS-FOUNTAIN-WATER/BROKE W. JOHNSON 6-4972		HJ		20150708	W15	
		MCST	975000	FACILITY,MCOWAS		25	3D	16.80009	BLDG-IST FLOR DRAIN CLOG REQ BY C-STIELPER		CS		20150709	W35	
		QUAD	931000	FACILITY,QUAD AVENUE		25	3D	15.82660	1 MCHPS/BLDS, REPLACE DRAIN in cieling and flr-rusted , leaking badly} stielperc 64972		CS		20150629	W15	
		QUAD	935806	FOUNTAIN-WATER		25	4	15.82657	1 BLDS/HA-REPAIR OR REPLACE cooler		HJ		20150626	W15	
		QUAD	931000	FACILITY,QUAD AVENUE		25	4	16.80029	BLDG- SPRAY METHWELL AND B REQ BY R BARTON JR		RBJ		20150722	W55	
		WSTPT	971000	FACILITY,WESTPORT		25	4	13.80582	BLDG-RAIN SPOUTS NEED REP stielper c 64972		CS		20120828	W08	
		WSTPT	971000	FACILITY,WESTPORT		25	4	15.82655	1 BLDS/HA-REPAIR OR REPLACE cooler		HJ		20150626	W15	
		WSTPT	971000	FACILITY,WESTPORT		25	4	16.80028	BLDG- SPRAY METHWELL AND B REQ BY R BARTON JR		RBJ		20150722	W55	
Total * BLDG * Work Orders:															
COUNT 62															
		BRKLYN	955101	GENERATOR-EMERGENCY SET		25	2	15.81887	ELCPS-REPORT TO RESET GEN W. JOHNSON 6-4972		HJ	ELCPS	20150401	W22	
		BRKLYN	953101	SCREEN-MECHANICAL BAR		25	3	13.80567	ELCPS. - BAR SCREEN W/IN' REMOVAL: K. KUBSKI 6-4972.		KK		20120820	W21	
		BRKLYN	952202	ACTUATOR,#2 PUMP DISCHARG		25	3D	12.80163	ELCPS-REPROGRAM UNIT Sullivan 6-4972		US		20110718	W23	
		BRKLYN	952202	ACTUATOR,#2 PUMP DISCHARG		25	3D	12.80180	ELCPS/MAKE REPAIRS TOVALV stielperc 64972		CS		20110725	W21	
		BRKLYN	955303	SWITCH-TRANSFER EMERG. GEN		25	3D	12.80520	ELCPS-MAKE NECESSARY REPA NOT SHUTDOWN. SULLIVAN 6-4972		US		20110805	W15	
		BRKLYN	953201	MOTOR,BAR SCREEN		25	3D	12.81843	ELCPS-OPER. SAID HOA SAIT Sullivan 6-4972		US		20111222	W21	
		BRKLYN	952103	VALVE,#3 PUMP DISCHARGE (M		25	3D	13.81853	1 ELCPS/MCHPS-INSTANT VLV F not opening stielperc 64972		CS		20130219	W15	
		BRKLYN	955301	FAN,#1 EXHAUST (ON ROOF FO		25	4	12.80168	ELCPS/ REPAIR FAN MOTOR-N stielperc 64972		CS		20110720	W21	
		BRKLYN	952102	VALVE,#2 PUMP DISCHARGE (M		25	4	12.80172	ELCPS/RESET VALVE CONTROL stielper 64972		CS		20110721	W22	
		BRKLYN	950003	PANEL, PLC/LOCAL CONTROL		25	4	TAD 12.81192	1 ELCPS INVESTIGATE WHY VLV opens drive fails to start stielper		CS		20111003	W51	
		BRKLYN	952101	VALVE,#1 PUMP DISCHARGE (M		25	4	12.81216	ELCPS-CHECK OPERATION OF REQ. BY J. NAROCK 6-9748		JCN		20111018	W38	
		BRKLYN	951202	MOTOR,SEWAGE PUMP #2		25	4	12.82390	ELCPS/REPAIR DRIVE TRIPPT Inhibit-stielper 64972		CS		20120221	W15	
		BRKLYN	951203	MOTOR,SEWAGE PUMP #0		25	4	12.82741	ELCPS/RESET DISCONNECT SWI stielper 64972		CS		20120327	W22	
		BRKLYN	950003	PANEL, PLC/LOCAL CONTROL		25	4	12.83007	ELCPS/ INSPECT I/O CARD F operation cstielper 64972		CS		20120409	W15	
		BRKLYN	950003	PANEL, PLC/LOCAL CONTROL		25	4	12.83330	ELCPS/ CHECK PLC FOR POME stielperc 64972		CS		20120515	W21	
		BRKLYN	955311	UPS-SYSTEM1		25	4	12.80008	ELCPS/ASSIST INSPS UPS IN stielperc 64972		CS		20120531	W22	
		BRKLYN	951103	PUMP,SEWAGE #3		25	4	13.81856	1 MCHPS/ ELCPS-REPLACE PUM stielperc 64972		CS		20130220	W15	
		BRKLYN	951101	PUMP,SEWAGE #1		25	4	13.82253	ELCPS/ ASSIST MCPS WITH P (not pumping) 5E4972		CS		20130425	W46	
		BRKLYN	957101	PUMP,#1 SUBVERSIBLE SUMP		25	4	14.82426	BLDG/ REPAIR BUMP (NOT W stielperc 64972		CS		20140415	W15	
		CLINT	991121	FACILITY,CLINTON STA.#1		25	3D	15.80605	1 ELCPS/MCHPS/STORM-NO POME REQ BY J. NAROCK 6-9748		JCN		20140915	W80	
		COLGAT	949202	MOTOR,STORM DRAIN PUMP		25	4	12.80554	1 ELC/ELCPS-REPLACE BEARIN requester r slayton 6-9752		RLS		20110824	W15	
		COLGAT	949202	MOTOR,STORM DRAIN PUMP		25	4	14.80572	ELCPS/INVESTIGATE POWER L stielperc 64972		CS		20130808	W21	
		COLGAT	949201	MOTOR,STORM DRAIN PUMP		25	4	14.80528	1 ELCPS/ ASSIST CONTRACTOR removal--stielper 64972		CS		20130812	W09	
		COLGAT	949505	LIGHTS,EMERGENCY		25	4	14.82891	ELCPS- REPAIR LIGHT REQ. 6-9748		JCN		20140610	W20	
		DUNDAL	941101	PUMP,SEWAGE #1		25	3D	14.80559	1 MCHPS/ELCPS-REPLACE COUPL stielperc 64972		CS		20130904	W15	
		DUNDAL	947501	FAN,PRV-1 EXHAUST (ROOF)		25	3D	15.80594	ELCPS/REPAIR SUPPLY FAN F (not working locked out) stielperc 64972		CS		20140909	W15	



Co.	No.	Area	Machine Number	Machine Description	Wt	Sts	Pty	Plnr	Code	Number	Short problem Description	Full Problem Description	Craft Wt	Issue Date	Wk Sht	Typ	Ch
11	PUMPING ST	DUNDAL 943407	MOTOR, MILLING GARAGE, DOOR	15.81639	25	3D					ELCPS/ REPAIR DOOR ( NOT stielperc 64972		CS	20150218	W21		
		DUNDAL 948103	CONTROL, VFD #2 SEWAGE PUM	15.82329	25	3D				1	ELCPS/ INSPS/ELCPS-REPAIR GROUND FAULT-stielperc 64972		CS	20150505	W41		
		DUNDAL 943102	SCREEN, #2 BAR	12.82379	25	4					ELCPS-ASSIST MECH. AND MC HOOKS 69701		WH	20120215	W22		
		DUNDAL 941000	FACILITY, DUNDALK PUMPING	13.81638	25	4					ELCPS-REPLACE SWITCH FOR bar screen room		JCN	20130004	W15		
		DUNDAL 947409	HEATER, UNIT (GENERATOR RM)	13.81875	25	4					ELCPS/ REPAIR UNIT HEATE stielperc 64972		CS	20130307	W22		
		DUNDAL 948104	CONTROL, VFD #3 SEWAGE PUM	13.82245	25	4					ELCPS/ REPAIR DRIVE REG. BY J. NAROCK 6-9748		JCN	20130417	W21		
		DUNDAL 941000	FACILITY, DUNDALK PUMPING	14.80099	25	4					ELCPS/ REPAIR OFFICE / SC access stielperc 64972		CS	20131021	W15		
		DUNDAL 944601	PUMP, VACUUM #1	14.81226	25	4					ELCPS/ ASSIST MECH. WITH RE stielperc 64972		CS	20131126	W15		
		DUNDAL 944603	PUMP, VACUUM #3	14.81245	25	4				1	ELCPS/ELCPS-REPAIR PUMP T stielperc 64972		CS	20131210	W21		
		DUNDAL 943101	SCREEN, #1 BAR	14.82460	25	4				1	ELCPS/ELCPS/ MAKE REPAIRS ( stop mid travel)- stielperc 64972		CS	20140509	W15		
		DUNDAL 941000	FACILITY, DUNDALK PUMPING	15.81628	25	4					ELCPS-REPAIR PUMP ROOM AN form 64972		CS	20150205	W20		
		DUNDAL 941000	FACILITY, DUNDALK PUMPING	15.81649	25	4					ELPS CLEAN AND TEST BREAK from damage created from leaking roof		DTS	20150227	W24		
		DUNDAL 948624	PANEL, SEAL WATER SYS. PRES	15.82336	25	4					ELCPS/ REPAIR OR REPLACE to seal water system that was damaged due to pump room flood		CS	20150512	W15		
		DUNDAL 940018	MINUTER, GAS	15.82338	25	4					ELCPS-INSTALL EXPLOSION P REG BY RBJ PER ELLWOOD KLUMP		RBJ	20150512	W22		
		EASTER 911000	FACILITY, EASTERN AVENUE	12.82401	25	3D					ELCPS-REPAIR OR REPLACE P Sullivan 6-4972		US	20120228	W44		
		EASTER 913202	MOTOR, BAR SCREEN (SOUTH)	12.83006	25	3D				1	ELCPS-REPAIR UNIT KMP stielperc 64972		US	20120528	W21		
		EASTER 917101	PUMP, SUPP #1	13.81866	25	3D				1	ELCPS/ELCPS-REPAIR OR REP Sullivan 6-4972		US	20130301	W21		
		EASTER 912102	VALVE, CINE #2 PUMP	13.82459	25	3D					ELCPS-MOTOR KEEPS RUNNING REG BY J. NAROCK		JCN	20130514	W21		
		EASTER 915510	FAN, EXHAUST	14.80012	25	3D				1	ELCPS/ELCPS-REPAIR UNIT KMP stielperc 64972		CS	20130717	W21		
		EASTER 913201	MOTOR, BAR SCREEN (NORTH)	15.81636	25	3D					ELCPS/REPAIR UNIT KEEPS T on (trq ret) stielperc 64972		CS	20150210	W21		
		EASTER 911000	FACILITY, EASTERN AVENUE	16.80398	25	3D					ELCPS/ REPLACE U SHAPE BU way and lower bathroom stielperc 64972		CS	20150817	W20		
		EASTER 916910	VALVE, GV-10 GATE (VAULT "C")	16.80425	25	3D					ELCPS/ REPAIR VALVE (no power to unit ) see C stielperc 64972		CS	20150831	W21		
		EASTER 916901	VALVE, GV-1 GATE (VAULT #1)	12.83325	25	4					ELCPS/REPAIR ELECTRIC OPE stielperc 64972		CS	20120508	W15		
		EASTER 913101	SCREEN, BAR (NORTH)	13.80024	25	4					ELCPS-ASSIST MECH. WITH R HOOKS 69701		WH	20120719	W15		
		EASTER 916021	LAUNDER, AUTO #1 GENERATOR (S)	13.80545	25	4				1	ELCPS/CHECK FAN MOTOR RUNNING slow see stielperc 64972		CS	20120802	W38		
		EASTER 911000	FACILITY, EASTERN AVENUE	13.81601	25	4					ELCPS/INVESTIGATE FIRE SU system pressure alarm (fire Marshall) stielperc 64972		CS	20130117	W02		
		EASTER 181501	STARTER, UNIT #2, MOTOR -	13.81618	25	4					ELCPS-REPLACE VACUUM CONT requester r Slayton 6-9748		RLS	20130201	W15		
		EASTER 911000	FACILITY, EASTERN AVENUE	13.81848	25	4					ELCPS-REPAIR LIGHT FIXTURE stielperc 64972		CS	20130211	W20		
		EASTER 911000	FACILITY, EASTERN AVENUE	13.81899	25	4					ELCPS/REPLACE LIGHT SWITCH in shed #1 stielperc 64972		CS	20130321	W20		
		EASTER 911000	FACILITY, EASTERN AVENUE	13.82236	25	4					ELCPS/ NEED BUCKET TRUCK sign stielperc 64972		CS	20130415	W22		
		EASTER 913202	MOTOR, BAR SCREEN (SOUTH)	13.82467	25	4					ELCPS-ASSIST MECH. NAR. BY		WH	20130521	W21		
		EASTER 916054	FAN, SUPPLY	14.80021	25	4					ELCPS-REPLACE MOTOR TRIPS REG BY C. STIELPER		CS	20130724	W15		
		EASTER 915416	HEATER, UNIT #4	14.81703	25	4					ELCPS-REPAIR HEATING UNIT (not working ) stielperc 64972		CS	20140128	W21		
		EASTER 916601	MOTOR CONTROL CENTER (MCC)	15.80051	25	4					ELCPS-REPAIR MCC BREAKERS REG. BY J. NAROCK 6-9748		JCN	20141031	W21		
		EASTER 916601	MOTOR CONTROL CENTER (MCC)	15.81642	25	4					ELCPS-REPAIR BROKEN KEY A REG. BY J. NAROCK 6-9748		JCN	20150223	W15		
		EASTER 916908	VALVE, GV-8 GATE (VAULT "C")	15.81644	25	4					ELCPS/INVESTIGATE CAUSE 0 out (keeps tripping out ) stielperc 64972		CS	20150223	W21		
		EASTER 916220	GUARD, STATION	16.80017	25	4					ELCPS-GATE WENT OPEN remote		JCN	20150715	W21		
		EASTER 911000	FACILITY, EASTERN AVENUE	16.80392	25	4					ELCPS-REPLACE LIGHTS IN M REG. BY J. NAROCK 6-9748		JCN	20150817	W20		
		EASTER 911000	FACILITY, EASTERN AVENUE	16.80393	25	4					ELCPS-REPAIR RADIOS REG. BY J. NAROCK 6-9748		JCN	20150817	W15		
		EASTER 910035	PROBE, VAULT FLOOD	16.80446	25	4					ELCPS-REPLACE LIGHT BULBS room area (bulbs are out)		HJ	20150918	W20		
		HILLAND 954402	PANEL, MAIN CIRCUIT	16.80424	25	4					ELCPS/ RESTORE MAIN POWER (no alarm) stielperc 64972		CS	20150831	W15		
		HILLAND 951000	FACILITY, HIGHLAND TOWN	12.81522	25	3D					ELCPS/CHECK PANNEL FOR POW stielperc 64972		CS	20111206	W15		
		HILLAND 954101	GENERATOR, EMERGENCY SET	13.82235	25	3D					ELCPS-REPAIR STATION Sullivan 6-4972		US	20130415	W20		
		HILLAND 954101	PUMP, SUPP	12.82125	25	4					ELCPS/REPLACE GEN BATTERY stielperc 64972		CS	20120124	W15		
		JF 921101	PUMP, SEWAGE #1	13.81851	25	4				1	ELCPS/ELCPS-REPAIR PUMP N stielperc 64972		CS	20130213	W15		
		JF 921102	PUMP, SEWAGE #2	13.80017	25	3D					ELCPS-PUMP SHOWING FAULT, Sullivan 6-4972		US	20120718	W41		
		JF 921202	MOTOR, SEWAGE PUMP #2	13.80018	25	3D					ELCPS-PUMP SHOWING FAULT, (craft already notified) Sullivan 6-4972		US	20120718	W41		
		JF 921203	MOTOR, SEWAGE PUMP #3	13.81770	25	3D					ELCPS-INTERMEDIATE CAUSE OF alarm and make repairs. Sullivan 6-4972		US	20130205	W41		
		JF 926301	GENERATOR, EMERGENCY SET	15.81056	25	3D					ELCPS/CHECK MOTOR FOR PHA STIELPERC 64972 (PER TEAM SERV)		CS	20150105	W15		
				16.80414	25	3D				1	INSPS/ ELCPS-INVESTIGATE breaker 52-G fault ) stielperc 64972		CS	20150820	W51		















Co.	No.	Area	Loc.	Machine Number	Machine Description	W/O Sts	Plnr Prty Code	W/O Number	Short problem Description	Full Problem Description	Craft W/O	Issue Date	Wk Sht
											Req. Code	By	Typ
													cls
11 PUMPING ST DUNDAL 944001 DUMPSTER, BAR SCREEN													
						25	4	16.80379	MCHFB-REPAIR WHEEL ON DUM W. JOHNSON 6-4972		WJ	MCHFB 20150805	W15
						25	4	16.80421	MCHFB- MAKE BRACKET FOR L REQ BY R BARTON JR		RBJ	20150827	W31
						25	3D	16.80008	MCHFB-DRAIN PIPE LEAKING REQ BY C. STIELPER		CS	20150708	W18
						25	4	15.80288	MCHFB-PATCH HOLES IN DUMP REQ. T. SMITH 6-9738		THS	20140805	W39
						25	4	15.82023	MCHFB/ REPAIR HOLE IN SID stielperc 64972		CS	20150423	W31
						25	4	15.82026	MCHFB-PATCH HOLD IN DUMPS W. JOHNSON 4-4972		WJ	20150423	W15
						25	4	15.82643	MCHFB-REPAIR WHEEL ON DUM W. JOHNSON 6-4972		WJ	20150616	W39
						25	4	16.80032	MCHFB-REPAIR OVER HEAD LE OFFICES 2 ON FIRST FLOOR AND 1 ON SECOND FLOOR		WJ	20150722	W39
						25	4	13.80661	PB/ REPLACE WHEELS {2} stielperc 64972		CS	20121022	W39
						25	4	15.82676	MCHFB-REPAIR WHEEL ON DUM W. JOHNSON 64972		WJ	20150707	W15
						25	4	15.82677	MCHFB-REPAIR WHEEL ON DUM W. JOHNSON 6-4972		WJ	20150707	W15
						25	4	16.80380	MCHFB-REPAIR WHEEL ON DUM W. JOHNSON 6-4972		WY	20150805	W15
						25	4	16.80405	MCHFB-REPAIR BROKEN WHEEL W. JOHNSON 6-4972		WJ	20150818	W15
						25	4	16.80415	MCHFB-REPAIR HOLE IN DUMP W. JOHNSON 6-4972		WJ	20150821	W39
						25	4	16.80423	MCHFB-INSTALL METAL PLATE bottom of fence at mc comas		WJ	20150828	W39
						25	3D	16.80411	MCHFB-MAKE REPAIRS TO SEC heavily damaged and bent up, look like it was hit by a car		WJ	20150820	W15
Total * MCHFB * Work Orders:													
COUNT 19													
BRKLYN 952801 TANK, HYDRO-PNEUMATIC SEAL													
						25	4	14.80966	2 MCHPS/ELCPS-CHECK SYSTEM pressure. stielperc 64972		CS	MCHPS 20131003	W38
						25	4	16.80395	MCHPS/ INSTALL DRAIN LINE stielperc 64972		CS	20150817	W15
						25	4	16.80396	MCHPS/ REPLACE CHECK VALV system stielperc 64972		CS	20150817	W15
						25	4	16.80399	MCHPS/ INSTALL HOSE REEL stielperc 64972		CS	20150817	W15
						25	4	14.81257	2 ELCPS/MCHPS-REPLACE PUMP requester r slayton 6-9700		RLS	20131220	W15
						25	4	15.82359	2 MCHPS/MCHFB-MAKE MODIFICA Q. BY W. HOOKS.		WH	20150527	MOD
						25	4	14.82410	MCHPS/INSTALL TEMPORARY W to station} stielperc 64972		CS	20140402	W15
						25	3D	15.80522	MCHPS/ INSTALL FLANGE ON stielperc 64972		CS	20140925	W15
						25	4	14.80810	MCHPS/ INSPECT FOR ANTI F stielperc 64972		CS	20130923	W18
						25	4	14.81936	MCHPS/ REPLACE VAC GAUGES meters-stielperc 64972		*CS	20140212	W15
						25	4	15.81465	MCHPS/ REPAIR LEAK ON PAC stielperc 64972		CS	20150202	W52
						25	4	15.81635	MCHPS-PUMP OUT VAULT FOR E. REQ. BY W. HOOKS 69738		WH	20150210	W15
						25	4	15.81885	MCHPS-REBUILD SPARE PUMP. 69738		WH	20150325	W27
						25	4	15.82039	MCHPS-MAKE NEEDED REPAIR S AT THE STATION. REQ. BY W. HOOKS 69701		WH	20150504	W15
						25	4	15.82040	MCHPS/CHECK #4 PUMP MECHAN leaking		WJ	20150504	W52
						25	4	15.82632	2 MCHPS/ELCPS REPAIR #25UMP W. JOHNSON 6-4972		WJ	20150608	
						25	4	16.80041	2 ELCPS/MCHPS BAR SCREEN ST of channel		WJ	20150803	W21
						25	4	15.81030	MCHPS/ CHECK OIL IN BEARI stielperc 64972		CS	20141125	W15
						25	4	15.81032	MCHPS/ ASSIST OPERATIONS stielperc 64972		CS	20141125	W15
						25	4	15.82659	MCHPS-CHECK #3PUMP (LEAKI ATTENTION-ROBERT DEBELIUS		WJ	20150629	W18
						25	4	16.80408	MCHPS-REPAIR PUMP SEAL, RE 1		WH	20150818	W15
						25	4	16.80425	MCHPS/ ASSIST OPERATIONS pumping vault {transport trailer mounted pump} 64972 stielperc CS		CS	20150831	W15
						25	4	16.80428	MCHPS/ REPAIR FLAT TIRE O stielperc 64972		CS	20150901	W15
						25	4	16.80400	MCHPS-REPAIR BROKEN WHEEL W. JOHNSON 6-4972		WJ	20150817	W31
						25	4	16.80418	MCHPS-DISCHARGE VALVE NOT REQ BY W. JOHNSON		WJ	20150827	W15
						25	4	16.80401	2 ELCPS/MCHPS-HIGH TEMP ALA PUMPING. W. JOHNSON 6-4972		WJ	20150818	W41
						25	3D	15.82660	2 MCHPS/BLDS, REPLACE DRAIN in cieling 2nd flr { rusted , leaking badly} stielperc 64972		CS	20150629	W15
						25	4	14.82430	2 ELCPS/MCHPS-REPAIR OPERAT correcty} stielperc 74972		CS	20140423	W15
						25	4	14.82438	MCHPS/ASSIST INSFS WITH R pipe in well-stielperc 649072		CS	20140425	W15
						25	4	15.82017	MCHPS/INSPECT PUMP {PUMPI stielperc 64972		CS	20150416	W15



Co.	No.	Area	Loc.	Machine Number	Machine Description	WO Sts	Plnr Prty Code	WO Sts	Plnr Prty Code	Short problem Description	Full Problem Description	Craft W0	Req. Code	Issue Date	Wk Snt	Typ	Wk Snt
11		PUMPING ST	WSTPT	971101	PUMP, SEWAGE #1	25	4	16.80409		MCNPS-BLEED AIR FROM PUMP BLEED OFFS ON ALL PUMPS. REQ. BY W.HOOKS		WH	MCNPS	20150819	W15		
Total * MCNPS * Work Orders:																	
COUNT 31																	
		EASTER	911106	PUMP, STANDBY SEWAGE		25	4	13.80655		MECH - REPAIR OIL PAN (L stielperc 64972		CS	MECH	20121018	W18		
Total * MECH * Work Orders:																	
COUNT 1																	
		CAROL	985701	CONTROLLER, PUMP, #1		25	4	15.81484	2	OPSEK/INSPS-INVESTIGATE C not working in auto-stielperc 64972		CS	OPSEK	20150202	W21		
		DUNDAL	948103	CONTROL, VFD #2 SEWAGE PUM		25	3D	15.82329	3	OPSEK/INSPS/ELCPS-REPAIR GROUND fault-stielperc 64972		CS		20150505	W41		
		JF	928005	VFD, #4 SEWAGE PUMP(CPX300		25	3D	15.82624		OPSEK-INVESTIGATE/REPAIR (BY-Pass) stielperc 64972		CS		20150603	W41		
		JF	928002	VFD, #1 SEWAGE PUMP(CPX300		25	4	15.82362		OPSEK-REPAIR #1VFD FAULT( over temp.)		WJ		20150527	W41		
Total * OPSEK * Work Orders:																	
COUNT 4																	
		BRKLYN	951000	FACILITY, BROOKLYN PUMPING		25	4	TAD	13.80684	PENG-ROOF LEAKING	REQ BY C-STIELPER	CS	PENG	20121030	W58		
		COLGAT	949501	MOTOR CONTROL CENTER		25	4	BJZ	10.83537	PENG-INVESTIGATE ELECTRIC from dundalk pumping station may not be proper size for the		RLS		20100430	W51		
		DUNDAL	941000	FACILITY, DUNDALK PUMPING		25	3D	15.80603	1	PENG/MCNPS- INSTALL SUP vault stielperc 64972		CS		20140910	WDD		
		DUNDAL	946101	CRANE, BRIDGE (15 TON)		25	3D	15.82645	2	ELCPS/PENG-MAKE REPAIRS T to no function pendant) stielperc 64972		CS		20150617	W09		
		DUNDAL	941000	FACILITY, DUNDALK PUMPING		25	4	TAD	12.80566	PENG- INSPECT ROOF VENT leaking stielperc 64972		CS		20110830	W15		
		DUNDAL	941000	FACILITY, DUNDALK PUMPING		25	4	TAD	12.80569	PENG-ROOF LEAKS NEEDS REP requester r slayton 6-9752		RLS		20110830	W58		
		DUNDAL	941000	FACILITY, DUNDALK PUMPING		25	4	TAD	13.80683	PENG-ROOF LEAKING	REQ BY C-STIELPER	CS		20121030	W58		
		EASTER	916000	BUILDING, DYER GENERATOR		25	3D	13.81592		P-INVESTIGATE CAUSE OF FOW station. Sullivan 64972		US		20130110	W51		
		EASTER	915417	AIR HANDLING UNIT AND CHI		25	3D	16.80389	2	HA/PENG- KEEPS SHUTTING D stielperc 64972		CS		20150811	W19		
		EASTER	911000	FACILITY, EASTERN AVENUE		25	4	BJZ	12.82123	2	PENG-INVESTIGATE POSSIBLE a wall small wall mounted heater/chris 64972	CS		20120124	W22		
		EASTER	911000	FACILITY, EASTERN AVENUE		25	4	TAD	12.82363	PENG- REPAIR CONCRETE PAD broken up tripping hazzard-see chris stielperc 64972		CS		20120203	W02		
		EASTER	911000	FACILITY, EASTERN AVENUE		25	4	TAD	12.83000	PENG/ INVESTIGATE NOOP DR see chris 64972		CS		20120425	W51		
		FTWC	902000	FACILITY, PORT MCHENRY		25	4	BJZ	12.80574	PENG-INVESTIGATE INSTALL BACKUP GENERATOR/AUTO TRANSFER SWITCH FOR STATION.		JAD		20110831	W51		
		HILLAND	961000	FACILITY, HIGHLANDTOWN		25	4	BJZ	12.81525	PENG/ INVESTIGATE 110 VLT UPGRADE -(PER J NARROCK) 64972		CS		20111206	W51		
		JF	921000	FACILITY, JONES FALLS		25	4	TAD	12.80529	PENG-HAVE PHONE LINE AND installed in upstairs VFD room stielperc 64972		CS		20110809	W44		
		LOCPO	965000	FACILITY, LOCUST POINT		25	4		14.81255	PENG/ RE-DIRECT BLOW OFF stielperc 64972		CS		20131219	W15		
		MCST	977801	SWITCH, TRANSFER		25	4	TAD	12.83589	PENG-PROVIDE FUEL TANK FO T.DAVIS		TAD		20120619	W27		
		PLTWD	999516	TEST BACKFLOW PREVENTERS		25	4	TG	10.83565	PENG-TEST & CERTIFY BACKF IN ALL PUMPING STATIONS.		TG		20100512	W09		
		PLTWD	999599	PRESSURE VESSEL INSPECTIO		25	4	TG	12.81492	PENG-PERFORM PRESSURE VES IN ALL PUMPING STATIONS AND REPORT		TG		20111103	W09		
		PLTWD	999815	ANNUAL CRANE INSPECTION(S		25	4		14.82462	PENG-PERFORM CRANE SAFETY IN ALL PUMPING STATIONS AND REPORT		TG		20140509	W09		
		STRUN	991126	FACILITY, STONEY RUN P.S		25	4	TAD	12.81199	PENG-INVESTIGATE PREVIATUR pump failure (operational problems or pump design) requester RLS		RLS		20110005	W51		
		STRUN	991126	FACILITY, STONEY RUN P.S		25	4		13.81600	PENG-INVESTIGATE PUMP CAU wall design problem stielperc 64972		CS		20130115	W51		
		WSTPT	971000	FACILITY, WESTPORT		25	4	MKA	13.80727	2	PENG-INVESTIGATE INSTALL stielperc 64972	CS		20121129	W51		
Total * PENG * Work Orders:																	
COUNT 23																	
		DUNDAL	943301	MOTOR, BAR SCREEN #1		25	4		16.80382	PM-SERVICE MECH. SCREEN. RE 69701		WH	PM	20150807	W48		
		EASTER	916910	VALVE, GV-10 GATE(VAULT"C"		25	4		13.80575	PM-LUBE NOISEY OPERATOR IF STILL NOISEY MULTICRAFT WORK ORDER TO REPAIR AS NEEDED.		CS		20120823	W48		
		EASTER	916909	VALVE, GV-9 GATE(VAULT"C"		25	4		13.80576	PM-LUBE OPERATOR REQ BY C-STIELPER		CS		20120823	W48		
		EASTER	916908	VALVE, GV-8 GATE(VAULT"C"		25	4		13.80577	PM-LUBE OPERATOR REQ BY C-STIELPER		CS		20120823	W48		



Back River, FS & M.L.C.												Status 1 & 25																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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# **APPENDIX 5**

## **SUMMARY OF REPORTED OVERFLOWS**



**City of Baltimore**  
**Activity at Sanitary Sewer Overflow Structures**  
**For Calendar Quarter Ending September 30, 2015**

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**SSO No. 67**

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<u>Date</u>	<u>Surcharge Depth (in)**</u>	<u>Rainfall (in)</u>
6/23/2015	Flow Meter in Place	1.38
6/27/2015	Flow Meter in Place	2.77
8/24/2015	Flow Meter in Place	1.83

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**SSO No. 72**

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<u>Date</u>	<u>Surcharge Depth (in)**</u>	<u>Rainfall (in)</u>
6/23/2015	Flow Meter in Place	1.38
6/27/2015	Flow Meter in Place	2.77
8/24/2015	Flow Meter in Place	1.83

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**SSO No. 132**

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<u>Date</u>	<u>Surcharge Depth (in)**</u>	<u>Rainfall (in)</u>
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None Reported this Quarter



**City of Baltimore**  
**Activity at Sanitary Sewer Overflow Structures**  
**For Calendar Quarter Ending September 30, 2015**

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**SSO No. 134**

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<u>Date</u>	<u>Surcharge Depth (in)**</u>	<u>Rainfall (in)</u>
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None Reported this Quarter

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**SSO No. 135**

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<u>Date</u>	<u>Surcharge Depth (in)**</u>	<u>Rainfall (in)</u>
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6/27/2015	Flow Meter in Place	2.67
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**SSO No. 137**

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<u>Date</u>	<u>Surcharge Depth (in)**</u>	<u>Rainfall (in)</u>
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6/1/2015	Flow Meter in Place	0.43
6/8/2015	Flow Meter in Place	0.23
6/27/2015	Flow Meter in Place	1.70
6/28/2015	Flow Meter in Place	0.03

Flow monitor removed on July 1, 2015 for construction

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**City of Baltimore**  
**Activity at Sanitary Sewer Overflow Structures**  
**For Calendar Quarter Ending September 30, 2015**

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**SSO No. 138**

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<u>Date</u>	<u>Surcharge Depth (in)**</u>	<u>Rainfall (in)</u>
6/27/2015	Flow Meter in Place	2.30

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**SSO No. 139**

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<u>Date</u>	<u>Surcharge Depth (in)**</u>	<u>Rainfall (in)</u>
6/27/2015	Flow Meter in Place	2.30
8/24/2015	Flow Meter in Place	2.01

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**City of Baltimore**  
**Activity at Sanitary Sewer Overflow Structures**  
**For Calendar Quarter Ending September 30, 2015**

Pumping Station Overflows			
<u>Pumping Station</u>	<u>Date</u>	<u>Volume Loss (gal)</u>	<u>Rainfall (in)</u>
None Reported this Quarter			
Wastewater Treatment Plant Overflows			
<u>WWTP</u>	<u>Date</u>	<u>Volume Loss (gal)</u>	<u>Rainfall (in)</u>
Patapsco		None Reported this Quarter	
Back River		None Reported this Quarter	



**City of Baltimore**  
**Un-Permitted Sanitary Sewer Overflows**  
**For Calendar Quarter Ending September 30, 2015**

Date	Estimated Volume (Gal)	Cause	Rain (in)	Receiving Waters	Location	Zip
7/1/2015	Evidence of Overflow	Rags, Grease	0.72	N/A	513 W Cold Spring Ln	21210
7/1/2015	2,955	Rags, Grease, Trash, Sand, Gravel, Rocks	0.72	N/A	2709 Greenmount Ave	21218
7/2/2015	755	Rags, Roots, Grease	0.04	N/A	4201 Ridgewood Ave	21215
7/3/2015	Evidence of Overflow	Rags, Grease, Trash, Sand, Gravel, Rocks	0.00	N/A	5656 The Alameda	21239
7/5/2013	1,420	Rags, Roots	0.00	N/A	3447 Spelman Rd	21225
7/6/2013	360	Rags, Roots	1.08	Gwynns Falls	1110 Cook Ln	21229
7/6/2013	Evidence of Overflow	Rags, Roots	1.08	N/A	4217 Audrey Ave	21225
7/6/2013	500	Rags, Trash, Sand, Gravel, Rocks	1.08	Gwynns Falls	5807 Royal Oak Ave	21207
7/7/2015	62,050	Infiltration/Inflow, Pipe Break	0.04	Gwynns Falls	4000 Edmondson Ave	21229
7/8/2015	4,750	Rags, Grease, Trash, Sand, Gravel, Rocks	0.02	Jones Falls	3803 Juniper Rd	21218
7/8/2015	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0.02	N/A	4300 Hayward St	21215
7/9/2015	540	Rags, Grease	0.16	Jones Falls	568 W Preston St	21201
7/9/2015	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0.16	N/A	4002 Kathland Ave	21207
7/9/2015	8,025	Rags, Trash, Sand, Gravel, Rocks	0.16	Biddison Run	6830 Everall Ave	21236
7/9/2015	5,150	Rags, Trash, Sand, Gravel, Rocks	0.16	Gwynns Falls	Edmondson Ave and Hilton Pkwy	21229
7/11/2015	Evidence of Overflow	Rags	0.00	N/A	2600 Marbourne Ave	21230
7/11/2015	635	Rags, Roots, Trash, Sand, Gravel, Rocks	0.00	N/A	2700 Tivoly Ave	21218
7/13/2015	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0.30	N/A	3010 Presbury St	21216
7/13/2015	446	Rags	0.30	N/A	6807 Park Heights Ave	21215
7/14/2015	Evidence of Overflow	Rags, Grease	0.58	N/A	817 Stoll St	21225
7/14/2015	204	Rags, Trash, Sand, Gravel, Rocks	0.58	N/A	2311 Ashton St	21233
7/14/2015	1,095	Rags, Grease, Trash, Sand, Gravel, Rocks	0.58	N/A	3455 Wilkens Ave	21229
7/15/2015	Evidence of Overflow	Rags, Roots	0.18	N/A	4506 Wakefield Rd	21216
7/15/2015	Evidence of Overflow	Grease, Trash, Sand, Gravel, Rocks	0.18	N/A	2707 Jefferson St	21224
7/15/2015	510	Rags, Trash, Sand, Gravel, Rocks	0.18	Herring Run	6465 Frankford Ave	21206
7/16/2015	Evidence of Overflow	Rags, Roots, Grease, Trash, Sand, Gravel, Rocks	0.00	N/A	3324 Lyndale Ave	21213
7/16/2015	Evidence of Overflow	Rags, Roots	0.00	N/A	3505 Cedardale Rd	21215
7/16/2015	3,500	Rags, Roots, Grease	0.00	Jones Falls	3803 Juniper Rd	21218
7/21/2015	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0.10	N/A	4217 Audrey Ave	21225
7/21/2015	Evidence of Overflow	Rags, Grease	0.10	N/A	3209 N Charles St	21218
7/21/2015	Evidence of Overflow	Rags, Grease	0.10	N/A	710 N Monroe St	21217
7/21/2015	1,440	Infiltration/Inflow, Pipe Break, Other	0.10	Jones Falls	3500 N Calvert St	21218
7/21/2015	270	Other	0.10	Jones Falls	7106 Harford Rd	21234
7/22/2015	Evidence of Overflow	Rags, Roots, Trash, Sand, Gravel, Rocks	0.00	N/A	1905 Cedric Ave	21216
7/23/2015	Evidence of Overflow	Pipe Break	0.00	N/A	1729 Moreland Ave	21216
7/24/2015	756	Rags, Grease, Trash, Sand, Gravel, Rocks	0.00	Jones Falls	5615 York Rd	21212
7/25/2015	1,025	Rags, Grease	0.00	N/A	601 E Pratt St	21202
7/26/2015	1,020	Rags, Trash, Sand, Gravel, Rocks	0.02	Gwynns Falls	2417 Puget St	21230
7/26/2015	Evidence of Overflow	Rags, Roots, Grease	0.02	N/A	3903 Mayberry Ave	21206
7/27/2015	Evidence of Overflow	Grease, Trash, Sand, Gravel, Rocks	0.91	N/A	1739 E Preston St	21213
7/27/2015	Evidence of Overflow	Roots	0.91	N/A	3108 Windsor Ave	21216
7/27/2015	5,375	Pipe Break	0.91	Jones Falls	4210 N Charles St	21218
7/28/2015	270	Rags, Grease	0.00	Curtis Bay	431 Swale Ave	21225
7/28/2015	164	Rags, Trash, Sand, Gravel, Rocks	0.00	Herring Run	5400 Loch Raven Blvd	21239
7/29/2015	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	1.03	N/A	4501 Curtis Ave	21226
7/29/2015	Evidence of Overflow	Rags, Roots	1.03	N/A	4906 Westhills Rd	21229
5/27/15 - 7/30/2015	9,173	Other	0.28	Gwynns Falls	500 Poplar Grove	21223
7/30/2015	2,538	Pipe Break	0.28	Jones Falls	3119 N Calvert St	21218
7/31/2015	Evidence of Overflow	Rags	0.00	N/A	501 S Hanover St	21201
7/31/2015	Evidence of Overflow	Rags, Roots, Trash, Sand, Gravel, Rocks	0.00	N/A	2806 Roselawn Ave	21214



**City of Baltimore**  
**Un-Permitted Sanitary Sewer Overflows**  
**For Calendar Quarter Ending September 30, 2015**

Date	Estimated Volume (Gal)	Cause	Rain (in)	Receiving Waters	Location	Zip
8/1/2015	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0.00	N/A	2013 Brunt St	21217
8/2/2015	Evidence of Overflow	Roots	0.00	N/A	5015 Antanna Ave	21206
8/3/2015	Evidence of Overflow	Rags, Roots	0.00	N/A	116 S Schroeder St	21223
8/3/2015	1,500	Rags, Roots	0.00	Gwynns Falls	5609 Liberty Heights Ave	21207
8/3/2015	6,450	Rags, Roots, Grease	0.00	Gwynns Falls	Edmondson Ave and Hilton Pkwy	21223
8/6/2015	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0.00	N/A	4625 Falls Rd	21211
8/7/2015	Evidence of Overflow	Rags, Roots	0.00	N/A	511 Westgate Rd	21229
8/8/2015	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0.00	N/A	809 N Caroline St	21205
8/10/2015	765	Rags, Roots	0.10	N/A	305 Cable St	21210
8/10/2015	Evidence of Overflow	Rags, Grease	0.10	N/A	1331 N Stricker St	21217
8/10/2015	Evidence of Overflow	Rags, Roots	0.10	N/A	1315 N Stockton St	21217
8/10/2015	2,625	Rags, Grease	0.10	Jones Falls	N Charles St and E Lanvale Ave	21202
8/11/2015	Evidence of Overflow	Rags, Roots	0.48	N/A	2611 Kentucky Ave	21213
8/12/2015	610	Trash, Sand, Gravel, Rocks	0.02	Herring Run	4701 O'Donnell St	21224
8/12/2015	5,012	Rags, Trash, Sand, Gravel, Rocks	0.02	Jones Falls	3117 Calvert St	21218
8/13/2015	Evidence of Overflow	Rags, Roots	0.02	N/A	1203 John St	21217
8/13/2015	1,495	Grease	0.02	Inner Harbor	939 Oldham St	21224
8/13/2015	1,566	Roots, Pipe Break	0.02	Stony Run	4611 Wilmslow Rd	21210
8/14/2015	6,495	Infiltration/Inflow, Pipe Break, Other	0.00	Jones Falls	3500 N Calvert St	21218
8/15/2015	456	Rags, Roots, Grease	0.00	N/A	1111 N Stricker St	21217
8/17/2015	701	Pipe Break	0.00	Herring Run	4616 Newgate Ave	21224
8/18/2015	760	Rags, Grease, Trash, Sand, Gravel, Rocks	0.00	Inner Harbor	4501 Foster Ave	21224
8/18/2015	5,100	Rags, Roots, Grease	0.00	Gwynns Falls	4104 Fairview Ave	21216
8/18/2015	Evidence of Overflow	Roots, Grease	0.00	N/A	308 Wendover Rd	21218
8/18/2015	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0.00	N/A	2109 Garrison Blvd	21216
8/18/2015	Evidence of Overflow	Rags, Grease	0.00	N/A	2700 E Chase St	21213
8/19/2015	7,131	Rags, Grease, Infiltration, Trash, Sand, Gravel, Rocks	0.00	Gwynns Falls	500 N Edgewood St	21229
8/19/2015	Evidence of Overflow	Rags, Pipe Break	0.00	N/A	1704 Rogers Ave	21209
8/21/2015	Evidence of Overflow	Roots	0.00	N/A	821 Winans Way	21229
8/21/2015	Evidence of Overflow	Unknown	0.00	N/A	2924 Mallview Rd	21230
8/21/2015	3,217	Pipe Break	0.00	N/A	3209 N Charles St	21218
8/21/2015	Evidence of Overflow	Rags, Roots	0.00	N/A	3526 Old Frederick Rd	21229
8/22/2015	278	Grease	0.00	N/A	Cloverhill Rd & W Highfield Rd	21218
8/23/2015	300	Grease	0.00	Inner Harbor	2809 Boston St	21224
8/25/2015	Evidence of Overflow	Roots, Trash, Sand, Gravel, Rocks	0.02	N/A	2806 Roselawn Ave	21214
8/25/2015	5,265	Pipe Break	0.02	Jones Falls	4210 N Charles St	21218
8/26/2015	Evidence of Overflow	Rags, Roots	0.00	N/A	1628 Sexton St	21230
8/27/2015	1,070	Rags, Roots, Grease	0.00	Inner Harbor	1044 Leadenhall St	21230
8/27/2015	980	Grease	0.00	N/A	E McComas & Key Hwy	21230
8/28/2015	1,995	Rags, Grease	0.00	N/A	3500 Cottage Ave	21215
8/28/2015	1,695	Pipe Break	0.00	N/A	4210 N Charles St	21218
8/30/2015	89	Unknown	0.00	N/A	3101 Pulaski Hwy	21224
8/31/2015	1,068	Rags, Grease, Trash, Sand, Gravel, Rocks	0.12	N/A	2029 Beechwood Ave	21207



**City of Baltimore**  
**Un-Permitted Sanitary Sewer Overflows**  
**For Calendar Quarter Ending September 30, 2015**

Date	Estimated Volume (Gal)	Cause	Rain (in)	Receiving Waters	Location	Zip
9/2/2015	3,000	Rags, Grease, Trash, Sand, Gravel, Rocks	0.00	N/A	3500 Cottage Ave	21215
9/2/2015	4,315	Rags, Grease, Trash, Sand, Gravel, Rocks	0.00	Inner Harbor	Saint Paul Pl & Saratoga St	21202
9/3/2015	Evidence of Overflow	Grease	0.00	N/A	2229 Washington Blvd	21230
9/6/2015	376	Rags, Grease, Unknown	0.00	N/A	700 Pennsylvania Ave	21201
9/6/2015	Evidence of Overflow	Roots	0.00	N/A	3714 Elkader Rd	21218
9/7/2015	Evidence of Overflow	Rags, Roots	0.00	N/A	1822 E North Ave	21213
9/9/2015	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0.00	N/A	1740 E Lanvale St	21213
9/9/2015	Evidence of Overflow	Rags	0.00	N/A	5028 Queensberry Ave	21215
9/10/2015	Evidence of Overflow	Rags, Grease	2.70	N/A	3500 Cottage Ave	21215
9/11/2015	Evidence of Overflow	Rags, Roots	0.02	N/A	6410 Loch Raven Blvd	21239
9/12/2015	1,800	Grease	0.54	N/A	Edmondson Ave and N Hilton St	21229
9/13/2015	540	Grease	0.00	Inner Harbor	109 N Central Ave	21231
9/15/2015	Evidence of Overflow	Grease	0.00	Herring Run	3900 Harford Rd	21206
9/16/2015	1,680	Rags, Grease, Trash, Sand, Gravel, Rocks	0.00	N/A	1809 W Lexington St	21223
9/16/2015	346	Pipe Break	0.00	Jones Falls	5113 Falls Rd	21210
9/16/2015	7,150	Rags, Roots, Grease	0.00	Gwynns Falls	Edmondson Ave and N Hilton St	21229
9/17/2015	2,184	Rags, Roots, Trash, Sand, Gravel, Rocks	0.00	N/A	2401 Crest Rd	21209
9/18/2015	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0.00	N/A	816 S Decker St	21224
9/18/2015	535	Rags, Grease, Trash, Sand, Gravel, Rocks	0.00	Northwest Harbor	1333 N Milton Ave	21213
9/18/2015	Evidence of Overflow	Rags, Grease	0.00	N/A	1814 N Calvert St	21202
9/19/2015	Evidence of Overflow	Rags, Grease, Trash, Sand, Gravel, Rocks	0.00	N/A	1951 Edmondson Ave	21223
9/19/2015	Evidence of Overflow	Grease	0.00	N/A	4508 Bonner Rd	21216
9/19/2015	1,071	Rags, Roots, Grease	0.00	Gwynns Falls	Morris Rd and N Franklinton Rd	21216
9/19/2015	2,582	Rags, Grease	0.00	N/A	2500 Queen Anne Rd	21216
9/20/2015	Evidence of Overflow	Roots	0.00	N/A	410 E 31st St	21218
9/21/2015	Evidence of Overflow	Roots	0.06	N/A	6803 Hamlet Ave	21234
9/21/2015	Evidence of Overflow	Rags, Grease	0.06	N/A	3500 Cottage Ave	21215
9/22/2015	3,246	Pipe Break	0.02	Gwynns Falls	1000 Ellicott Dr	21229
9/23/2015	Evidence of Overflow	Roots, Trash, Sand, Gravel, Rocks	0.00	N/A	202 Longwood Rd	21210
9/23/2015	Evidence of Overflow	Rags, Roots	0.00	N/A	1032 Parksley Ave	21223
9/23/2015	Evidence of Overflow	Grease	0.00	N/A	147 N Streeper St	21224
9/23/2015	Evidence of Overflow	Trash, Sand, Gravel, Rocks, Pipe Break	0.00	N/A	830 N Broadway St	21205
9/24/2015	500	Rags, Roots	0.00	N/A	2801 Glen Ave	21215
9/24/2015	Evidence of Overflow	Rags, Grease	0.00	N/A	320 Millington Ave	21223
9/24/2015	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0.00	N/A	201 Deepdene Rd	21210
9/25/2015	Evidence of Overflow	Roots, Trash, Sand, Gravel, Rocks	0.00	N/A	3506 Chestnut Ave	21211
9/26/2015	Evidence of Overflow	Rags, Roots	0.00	N/A	5510 Roland Ave	21210
9/28/2015	70	Rags, Grease, Trash, Sand, Gravel, Rocks	0.02	N/A	3611 Springdale Ave	21216
9/28/2015	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0.02	N/A	5813 Loch Raven Blvd	21239
9/28/2015	Evidence of Overflow	Rags, Pipe Break, Other	0.02	N/A	2439 N Calvert St	21218
9/29/2015	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	2.73	N/A	827 W Lombard St	21201
9/30/2015	Evidence of Overflow	Rags, Grease	0.12	N/A	5816 Berkeley Ave	21215



Updated through September 30, 2015

No.	SDUO No.	Date of Occurrence	Location	Zip Code	Stream Affected	Date of Resolution (See Note 6 Below)	Duration (Days)	Est. Quantity of Discharge in Gallons (7, 8, 9)	Measures Taken to Identify Source or Resolve	Future/Planned Work
1	14	9/18/2007	JHU Campus	21218	Jones Falls	Not Resolved	On-going	3,737,284	City letter sent to JHU on 3/30/11 requiring that repairs be made. JHU completed significant repair effort. Subsequent retesting by the City determined that the repairs to date have been unsuccessful. City met with JHU maintenance on 12/5/13. <b>Owner continues to address the issue. 200 feet of lining were completed. Confirmatory testing to be performed. Confirmatory testing performed. Seems to be abated.</b>	Follow up sampling after a rainfall event to clear pipe but minor issues still exist. Working with the owner to address.
2	38	11/6/2009	3302 Esther Place (inside 54" storm drain)	21212	Inner Harbor	Not Resolved	On-going	1,255,680	For north side, letter to be sent to HCD/HABC. HCD issues a violation notice on 01/10/11. For south side, pipe has been plugged. SWMD checked on the plug on 12/15/10, and it continues to hold. <b>Active - With Department of Housing and Community Development (DHCD). Violation Notice issued 1/12/2015.</b>	Continue to follow up with DHCD and the owner
3	41	6/3/2010	Cross Country & Key Ave (Storm Drain MH with sewage in bottom)	21215	Western run	Not Resolved	On-going	283,824	Verified as SDUO site by ammonia field test and dye test completed on June 3, 2010. Dye testing and CCTV inspection revealed CIPP Lining is recommended. <b>Rehab work is completed. Confirmatory testing to be performed. Location is not abated. Site visit is scheduled for 1/20/2015.</b> After the site visit, additional rehab recommendation was forwarded to construction on 1/20/2015. lining completed and ready for testing	Problem still exists. More investigation is needed
4	43	5/26/2010	Cross Country & Chilham Rd (300 ft northeast of intersection in an uncharted 15" Storm Drain)	21209	Western Run	Not Resolved	On-going	80,654	Verified as SDUO site by ammonia field test and dye test completed on May 26, 2010. <b>Lining recommendation was forwarded to construction on 1/14/2015. A manhole needs to be located prior to the start of lining. Pipe bursting was done in lieu of CIPP.</b>	Ready for re-testing
5	55	8/10/2011	Mannasota & Parkside	21206	Herring Run	Not Resolved	On-going	56,868	Sewage is infiltrating the storm entering storm drain at Cylburn Ave. On 7/26/2011, on-call consultant recommended the sewer line be CIPP lined. Site lined, but follow-up testing documented ammonia. <b>Heavy cleaning complete - CIPP lining is pending</b>	Rehab work is in progress
6	68	10/11/2012	Mason & McMechen	21217	Jones Falls	Not Resolved	On-going	127,872	Dye test program and CCTV performed. <b>Recommendation was forwarded to construction on 1/14/2015. After a site visit, the recommendation was amended and sent back to construction on 3/18/2015.</b>	Stom drain was located and re-routed to sewer. Work completed. Ready for re-testing but access is temporary not available. Will continue to attempt testing
7	69	12/4/2012	Fait & Grundy	21224	Inner Harbor	Not Resolved	On-going	60,826	Heavy cleaning and CCTV performed. Dye testing of 3906 Fait Ave confirmed the property is not the source. Manhole installed and the sanitary house connection (SHC) was disconnected from storm drain. SDUO not abated. <b>Recommendation was forwarded to construction on 1/14/2015. Work completed but problem still exists</b>	More investigation is underway



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No.	SDUO No.	Date of Occurrence	Location	Zip Code	Stream Affected	Date of Resolution (See Note 6 Below)	Duration (Days)	Est. Quantity of Discharge in Gallons (7, 8, 9)	Measures Taken to Identify Source or Resolve	Future/Planned Work
	70	12/5/2012	Haven & Bank	21224	Inner Harbor	8/13/2015	981	35,316	Dye testing and manned inspection confirmed private connections. Property owner notified. <b>Working with the property owner to correct the issue.</b>	Abated on 8/13/2015
8	78	7/26/2013	500 block of Bloom St.	21217	Jones Falls	Not Resolved	On-going	1,018,411	CCTV program in progress. Lining repair work was performed under Consent Decree project. <b>Replacing/coating 3 manholes is planned. Work is completed but problem is still active.</b>	CCTV lateral camera revealed that the 6 inch pipe is collapsed, about 6 feet in from the 36 inch storm drain connection. Dye is present in flow of the 6 inch pipe. Work is planned
	79	7/31/2013	Perkins Homes, 263 Dallas Ct.	21223	Inner Harbor	7/24/2015	723	152,239	Dye test program and CCTV conducted. confirmatory test showed dye negative to storm drain. <b>Rehab work is completed. Confirmatory testing to be performed. Location is not abated. Additional lining is planned. Lining Complete</b>	Abated on 7/24/2015
9	82	9/17/2013	Fleet & Fagley Streets	21224	Patapsco	Not Resolved	On-going	867,084	Dye test program and CCTV in progress. <b>Under Investigation. CCTV is scheduled</b>	CCTV completed and lining recommendation was forwarded to construction. Rehab work is in progress
10	86	8/12/2014	2100 BLK Hamilton Av	21214	Herring Run	Not Resolved	On-going	22,385	Replacement of 3 sewer house connections is planned. <b>Replacement of 3 sewer house connections is planned. Work completed. Confirmatory test is pending</b>	2 sewer connections were completed. Confirmatory testing is slightly poisitive. Connection number 3 will be rehabbed
11	87	8/15/2014	Charles St. and Lanvale St	21214	Jones Falls	Not Resolved	On-going	17,710	Part of CD project 897R. <b>Work is removed from SC897R to expedite the rehab.</b>	Rehab work is in progress
	92	1/29/2015	4512 York Rd.	21212	Herring Run	7/21/2015	173	7,310	Field investigation was performed and rehab recommendation was forwarded to construction on 3/18/2015. Rehab work completed.	Abated on 7/21/2015
12	93	2/19/2015	2400-2500 Blocks of W. Coldspring Ln	21215	Jones Falls	Not Resolved	On-going	2,684	Rehab recommendation was forwarded to construction on 3/18/2015	Construction complete. Ready for confirmatory testing. Water main break is delaying the test
13	94	2/19/2015	2600 Block of Loyola Northway	21215	Jones Falls	Not Resolved	On-going	5,260	Rehab recommendation was part of consent decree project SC899. Work is completed	Confirmatory testing is pending,Problem is still active. Sent another lining recommendation
14	96	5/14/2015	3400 Block of Ash St	21211	Jones Falls	Not Resolved	On-going	35,142	Work completed end of June 2015. Dye test performed is negative but Ammonia is still high.	Additional work is needed on the connection of 3429 Ash St house
	15JF01	7/7/2015	3500 N Calvert Block	21202	Jones Falls	8/21/2015	45	12,960	Pipe bursting for 240 ft of sewer line	Abated on 8/21/2015
15	15JF02	07/10/15	3731 Greenmount Ave	21218	Jones Falls	Not Resolved	On-going	16,718	Illicit Connection / direct connection	Citation was sent to owner to take action. In the process of hiring a bonded licenced plumber
16	15JF03	07/21/15	3804 Juniper rd	21218	Jones Falls	Not Resolved	On-going	9,302	Illicit Connection / direct connection	Citation was sent to owner to take action. In the process of hiring a bonded licenced plumber



Updated through September 30, 2015

No.	SDUO No.	Date of Occurrence	Location	Zip Code	Stream Affected	Date of Resolution (See Note 6 Below)	Duration (Days)	Est. Quantity of Discharge in Gallons (7, 8, 9)	Measures Taken to Identify Source or Resolve	Future/Planned Work
	15BT01	7/17/2015	3710 Fairhaven Ave	21226	Harbor	8/5/2015	19	2,023	Illicit Connection / broken sanitray line connected to sump pump.	Abated on 8/5/2015.
	15GF01	7/20/2015	4500 Block of Bonner Rd	21216	Gwynns Falls Trib	9/17/2015	59	40,780	Uncharted broken sanitary line inside private apartment complex	Abated on 9/17/2015
	15JF04	7/23/2015	3119 N. Calvert St	21218	Jones Falls	8/29/2015	37	1,332	Aging infrastructure. Rehabilitation was performed	Abated on 8/29/2015
17	15GF02	07/30/15	4520 Wakefield Rd	21216	Gwynns Falls Trib	Not Resolved	On-going	2,870	Illicit Connection / direct connection	Citation was sent to owner to take action. In the process of hiring a bonded licenced plumber
18	15JF05	07/30/15	224 39th Street	21218	Jones Falls	Not Resolved	On-going	8,200	Illicit Connection / direct connection	Citation was sent to owner to take action. In the process of hiring a bonded licenced plumber

SDUO Summary:

1. Total SDUO Sites Documented: 106

2. Total SDUO Sites Resolved: 88 (83% Complete)

3. Total Active SDUO Sites on Private Property: 6

4. Total SDUO Sites Unresolved: 18 (17% Open)

5. New SDUO Sites documented in the last Quarter: 8

6. Under the column entitled "Date of Resolution", if the note reads Not Resolved an end date of 9/30/2015 was used to determine the quantity of discharge up to that point.

7. All of the Estimated Quantities of Discharge listed in the above table are based on a start date of October 30, 2008 in accordance with the letter issued by EPA dated November 12, 2010. The actual start date of the sewer discharge based on testing is listed in the Date of Occurrence.

8. (T) - Flow calculated utilizing TKN concentration.  
(A) - Flow Calculated utilizing Ammonia concentration.

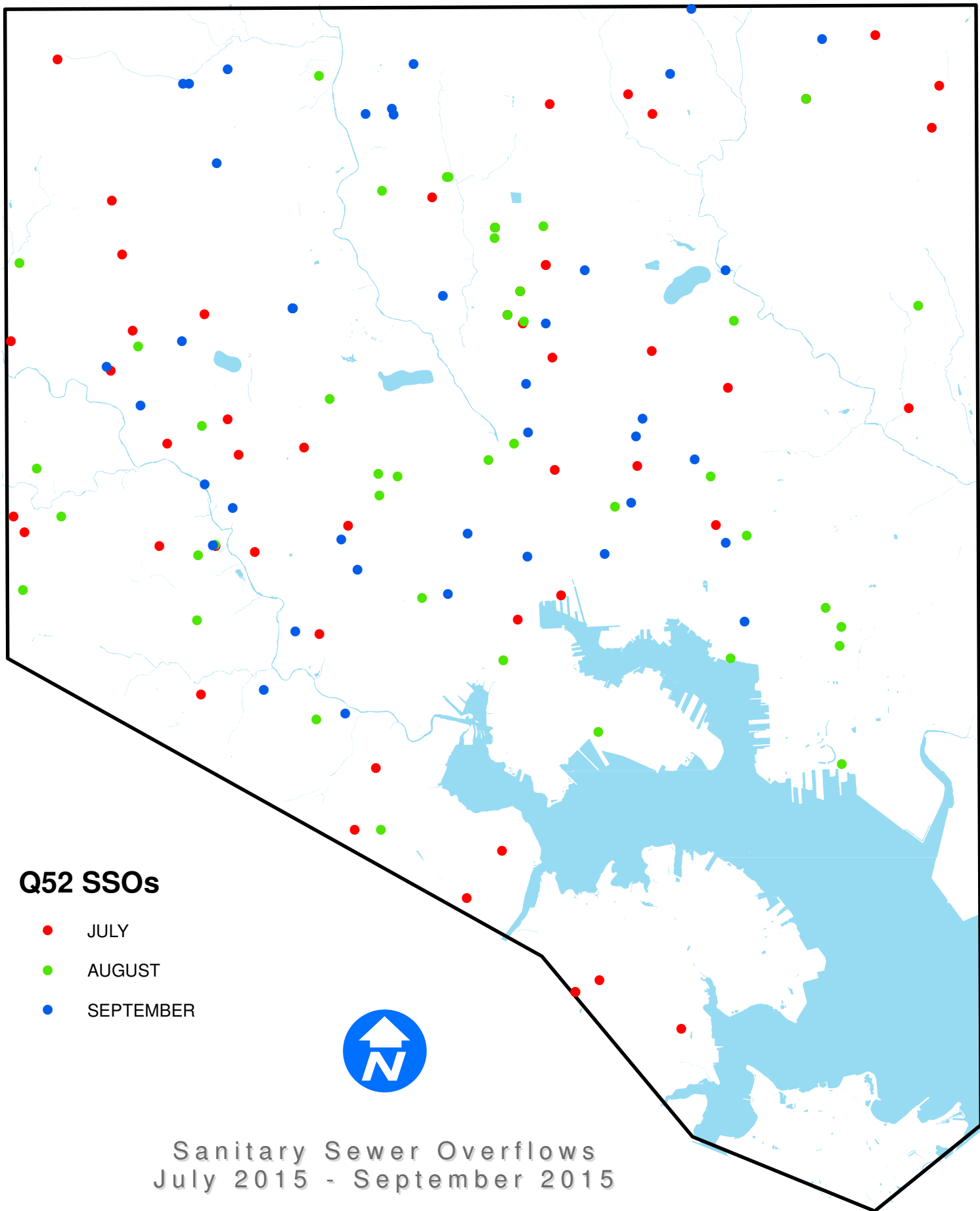
For all active sites, the City ultimately, plans on calculating flows using TKN - per guidelines of the approved protocol by EPA

9. For sites that have not yet been resolved, "Est. Quantity of Discharge (Gal)" is readjusted each quarter to reflect the elapse of time and any recent field information (flow, NH3, TKN) that may have been collected for a given site.

DPW

Appendix 5-10





## Q52 SSOs

- JULY
- AUGUST
- SEPTEMBER



Sanitary Sewer Overflows  
July 2015 - September 2015



Updated: September 2015