

CITY OF BALTIMORE

STEPHANIE RAWLINGS-BLAKE, Mayor



DEPARTMENT OF PUBLIC WORKS

Rudolph S. Chow, P.E., Director  
Abel Wolman Municipal Building, 6th Floor  
200 N. Holliday Street  
Baltimore, Maryland 21202

April 28, 2016

**VIA OVERNIGHT MAIL**

Chief, Environmental Enforcement Section  
Environment and Natural Resources Division  
U.S. Department of Justice  
601 D Street NW, Room 6002  
Washington, D.C. 20579

Chief, Environmental Enforcement Section  
Environment and Natural Resources Division  
U.S. Department of Justice  
950 Pennsylvania Avenue, N.W.  
Washington, D.C. 20530

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

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

Michelle Price-Fay  
Chief, NPDES Enforcement Branch  
United States Environmental Protection Agency  
Region III  
1650 Arch Street  
Philadelphia, PA 19103

Joyce A. Howell (3RC20) (Cover letter only)  
Senior Assistant Regional Counsel  
United States Environmental Protection Agency  
Region III  
1650 Arch Street  
Philadelphia, PA 19103

Chief  
Enforcement Division, Compliance Program  
Water Management Administration  
Maryland Department of the Environment  
1800 Washington Boulevard  
Baltimore, MD 21230

Principal Counsel  
Maryland Department of the Environment  
Office of the Attorney General  
1800 Washington Boulevard  
Baltimore, MD 21230

**RE: United States, et al. v. Mayor and City Council of Baltimore  
Civil Action No. JFM-02-1524  
Calendar Quarterly Report No. 54  
For Calendar Quarter Ending March 31, 2016**

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. 54, for the Calendar Quarter ending March 31, 2016.

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April 28, 2016  
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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,



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 Lingan, 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. 54  
For Calendar Quarter ending March 31, 2016

*Submitted:  
April 30, 2016*

*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*



Civil Action No. JFM-02-1524  
Calendar Quarterly Report No. 54  
For Calendar Quarter Ending March 31, 2016

## 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*

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Kumasi Vines, Acting Bureau Head  
Water & Wastewater

# **City of Baltimore Sanitary Sewer Overflow Consent Decree**

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*Submitted:  
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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 March 31, 2016, 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  
SSO 154 located at N. Charles Street & W. Lafayette Avenue**

**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 March 31, 2016, 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		
			January	February	March
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 December, January and February 2016 (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 March 31, 2016, 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 March 31, 2016, 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. Negotiations between the City and the Regulators on the modifications are ongoing.**

### **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 March 31, 2016, 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 March 31, 2016, 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 March 31, 2016, 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 March 31, 2016, 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 March 31, 2016, 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 March 31, 2016, 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 March 31, 2016, 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 March 31, 2016.

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

<b>Pumping Station</b>	<b>Date of Inspection Completion</b>	<b>Date of Repair Completion</b>	<b>Repairs or Improvements</b>	<b>No. of Overflows</b>
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 March 31, 2016, 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 March 31, 2016, 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 March 31, 2016. 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 March 31, 2016, 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 March 31, 2016 is provided in Appendix 5.
- B.** During the calendar quarter ending March 31, 2016, 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 March 31, 2016, 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 March 31, 2016, 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 March 31, 2016, 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 March 31, 2016, this contract was advertised on April 30, 2010, and bids were due on December 31, 2010. The construction NTP was issued on February 22, 2011. **The warranty period for this project is over.**

**Contract for the Improvements to the Headworks and Wet Weather Flow Equalization at Back River WWTP Project SC 918S was re-advertised, interviews occurred on March 15th and selection of CMaR team pending Board Approval. Project SC 918H - Site work and relocation of the County Force main was bid on February 5, 2016 and NTP anticipated in April 2016. Yes, add this.**

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

As of the calendar quarter ending March 31, 2016 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 March 31, 2016

PROJ ID NO.	PROJECT	DESCRIPTION AND REMARKS	DATE CONSTRUCTION CONTRACT ADVERTISED	DATE OF PRACTICAL COMPLETION	DATE SSO STRUCTURES ELIMINATED	SSO/CISO STRUCTURES ELIMINATED	STATUS
UPPER JONES FALLS SEWERSHED							
1	Western Run Interceptor (UPI Branch) Sanitary Contract Nos. 780 & 789	1. Install approximately 880 linear feet of 30-inch parallel relief sewer from JPIB46 to JPI10 (along JPI60A-JPI63) (SC780). 2. Install approximately 6,400 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 of Papp Cole Plant) Sanitary Contract Nos. 772 & 824	1. Rehabilitation of approximately 1,800 linear feet of existing 42- to 48-inch sewer located between JPI42 and JPI10, and approximately 6,570 linear feet of 42- to 60-inch sewer located between JPI42 and the JPI10. Replacement of approximately 1,900 linear feet of 48" sewer between JPI10 and JPI18, and approximately 1,500 linear feet of 60" sewer between JPI70 and the Jones Falls Pumping Station (SC 772). 2. Replacement of approximately 7,000 linear feet of 48-inch sewer between JPI18 and JPI42 (SC 824). 3. Manholes 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 27, 2007. Construction Phase** Letter sent to MDE and EPA on 6-26-07 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 1000 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 main/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 JCA branch	June 30, 2006	12/26/2007**	May 2, 2008	Contributes to elimination of SSO No. 5	Construction Phase** Letter sent to MDE and EPA on 4-11-07 requesting additional 90 day practical completion extension to December 2007. MDE response letter approving additional extension received September 5, 2007. Letter sent to MDE and EPA on 12/17/07 requesting additional 90 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	12/26/2007**	June 30, 2008	Eliminates SSO No. 5	Construction Phase** Letter sent to MDE and EPA on 4-11-07 requesting additional 90 day practical completion extension to December 2007. MDE response letter approving additional extension received September 5, 2007. Beneficial Occupancy achieved 11/10/07.
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.

APPENDIX 1  
STATUS OF PARAGRAPH 8 CONSTRUCTION PROJECTS  
As of March 31, 2016

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>LOWER JONES FALLS SEWERSHED</b>							
7	Lower Jones Falls Interceptor (Upper Portion of Gravity Mainline) Sanitary Contract Nos. 773 & 618	1. Install approximately 7,900 linear feet of 18- to 24-inch parallel relief sewer from JG030 (near Jones Falls Pumping Station) to JG001 (at the connection of the JGE branch) (SC618). 2. Rehabilitation of approximately 16,500 linear feet of existing sewer ranging from 12- to 60-inch (SC773). 3. Inverted siphon rehabilitation in Falls Road (manhole JG082) (SC773). 4. Stream bank restoration along Union Avenue near Meadow Mills at Woodberry	July 31, 2003	June 30, 2008	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. 619, 839, 839 & 847	1. Construct a 20 mgd capacity pumping station near Department of Public Works Solid Waste Site near the intersection of 29th Street and Station Street. 2. Install approximately 1,200 linear feet of 24-inch force main from new pumping station to JFFS pressure sewer (length depends on location of pumping station). 3. Parallel approximately 10,800 linear feet of existing sewer from south of Coldspring Lane (JGF-49) to the new pumping station with 18 to 36-inch sewer	December 30, 2005 (SC-819 & 839) 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). Now CD portion of the project is nearly complete. Final construction of the Stony Run Pumping Station on August 28, 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, 2011 to allow for adequate time for the City to complete the hydraulic restriction project at the BRWWTP. While the City has not yet received a contribution to not being able to eliminate these SSOs.
9	Meadow Avenue Interceptor (JGB Branch) Sanitary Contract No. 769	1. Replace (update) approximately 4,000 linear feet of existing 12- to 24-inch sewer with new 21- to 36-inch sewer. 2. Improvements to siphon/SSO No. 125 under I-43 (JGB19-USB19). 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, 839	1. Install approximately 7,295 linear feet of 36- to 42-inch parallel relief sewer from Bonaparts Avenue to the High Level Interceptor at High Street. 2. Line approximately 8,000 linear feet of 18- to 36-inch existing sewer.	December 30, 2005	12/27/07**	2/28/10***	Contributes to elimination of SSO No. 72	Construction Phase. SC 839-Extension letter was submitted on 12/27/07. On March 29, 2008, this extension was approved, and a subsequent extension for 90 days, through June 27, 2008 was submitted. Awaiting response from MDE/EPA. Practical completion achieved on May 27, 2008. Monitoring period began July 25, 2008, in a letter dated 11/09/2011, EPA approved the minor schedule modification.
11	Elimination of Siphon Blowoff (Siphon No. 8 - 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 blowoff.	On-call contract	June 30, 2004	June 30, 2005	Eliminates SSO No. 68	Complete
<b>HERRING RUN SEWERSHED</b>							
12	Moore Run Interceptor - Middle Section Storm Water Contract Nos. 7748 and 7751	Construction of approximately 460 linear feet of 18-inch, approximately 600 linear feet of 21-inch, approximately 4900 linear feet 24-inch, approximately 1000 linear feet of 27-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 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 Run Interceptor - Upper Section Sanitary Contract No. 817	Construction of approximately 7700 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. 850	1. Cleaning and inspection of siphons with repairs as necessary. 2. Elimination of blowoffs.	On-call contract	June 30, 2004	June 30, 2005	Eliminates SSO Nos. 92	Complete*

Note: Shaded date cells indicate completion.

APPENDIX 1  
STATUS OF PARAGRAPH 8 CONSTRUCTION PROJECTS  
As of March 31, 2016

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 6- to 10-inch collection piping (SC804)	June 30, 2003	June 30, 2006	June 30, 2007	Eliminates SSO Nos. 28P, 29P and 39P	Complete
18	Dead Run System Improvements DRA Branch Sanitary Contract No. 788, 825	Clean, inspect and rehabilitate approximately 20,000 linear feet of 12- to 24-inch conveyance piping (CCE) and approximately 11,000 linear feet of 6- to 12-inch collection piping (SC788)	June 30, 2003	June 30, 2006	June 30, 2007	Eliminates SSO Nos. 14P and 17P	Complete
19	Maidens Choice Interceptor Sanitary Contract No. 828	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 Claire Street; Siphon No. 12 - Siphon No. 12 - east of Framlington 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. 64 and 22P	Complete*
<b>COMBINED SEWER AREAS</b>							
21	Walbrook Sanitary Contract No. 790	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 Nos. 13P and SSO Nos. 10P, 11P, 12P, 18P, 19P, 23P, 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. 837	Assess hydraulics and design improvements to areas adjacent to overflows	June 30, 2003	June 30, 2006	June 30, 2007	Eliminates SSO Nos. 85, 96, 57, 60, 63, 103, 126, 127, 128 and 131	Complete
25	Elimination of Siphon Blowoffs (Siphon Nos. 9 and 10 - east of Dukeland 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 Uneta 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

\* Approved by MDE/PA. \*\* Approved by MDE. \*\*\* Approved by EPA



**APPENDIX 2**

**STATUS OF  
PARAGRAPH 9  
CONSTRUCTION PROJECTS**

**STATUS OF PARAGRAPH 9 CONSTRUCTION PROJECTS**  
As of March 31, 2016

Proj. No.	PROJECT	DESCRIPTION AND REMARKS	DATE CONSTRUCTION CONTRACT ADVERTISED	DATE OF CONSTRUCTION COMPLETION	DATE OF EVALUATION COMPLETION	STATUS
JF-1	Lower Jones Falls Sewer Cleaning	<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.	6/20/2009 (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.	6/20/2009 (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 Resealation	Resealation of an inactive 42-inch diameter interceptor sewer along Jones Falls from Northern Parkway (MH S19CC, 2045MH) to Cold Spring Lane (MH S1900, 1042MH). Prior to resealation 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.	07/16/2006 (A)	09/09/2010 (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-sealed 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 issued on 11/17/10, and Final Acceptance was on 09/22/11.
JF-4	SC 865 - MD Ave Sewer Rehab	SC 865 - 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 866 - Stony Run Area	Repair and rehabilitation of sanitary sewer and manholes in the Stony Run Area of the Jones Falls Sewershed.	7/27/2012 (A)	4/30/2016	4/30/2017	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 869 - West in Run Area	Repair and rehabilitation of sanitary sewer and manholes in the Western Run Area of the Jones Falls Sewershed.	7/27/2012 (A)	4/30/2016	4/30/2017	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)	9/30/2016	9/30/2017	The project was advertised on 9/22/12. The lowest bidder is Insituform Technologies. Award date is 12/19/12 and NTP issued on 2/8/13. Project in liquidated damages
JF-8	SC 897R - Greenmount, Hampden and Bolton Hill	Repair and rehabilitation of sanitary sewer and manholes in the Greenmount, Hampden, and Bolton Hill areas of the Jones Falls Sewershed.	3/22/2013 (A)	11/30/2016	11/30/2017	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
OF-1	Sediment Cleaning Trunk Sewers in City of Baltimore	<b>OUTFALL SEWERSHED</b>				
OF-1	Sediment Cleaning Trunk Sewers in City of Baltimore	SC 804 - Cleaning of Outfall Sewershed 90-inch and Outfall Interceptor (From N Bond Street to 8300 Block of E Lombard Street)	09/05/11 (A)	04/12/2014 (A)	4/1/2015 (A)	The contract was awarded to Meira Industries on 09/05/11. The lowest bidder, on 08/11/11, NTP issued on 8/6/11. 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)	6/28/2017	6/29/2018	The contract was advertised on 12/13/13. The lowest bidder is Meira 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)	2/24/2018	2/24/2019	The contract was advertised on 7/17/2015. Bid opening is 8/26/2015.

Note: Shaded date cells indicate completion.

**STATUS OF PARAGRAPH 9 CONSTRUCTION PROJECTS**  
As of March 31, 2016

HIGH LEVEL SEWERSHED						
HL-1	Liberty Heights Relief Sewer	SC 879 - Design and construction 18" Relief Sewer from intersection of Springdale Rd and N Hillen St to intersection of Webster Ave and Liberty Heights Ave. (S090JL007491 to S090JL008049). Work includes installation of 2400 LF of new 18-inch sewer line and installation of 720 LF of 20" pipe. Existing 12" pipe will be replaced. Existing manholes will be replaced with engineered SSOs 132, 134 and 138 to ensure no overflows	2/10/2012 (A)	4/1/2014 (A)	4/1/2015 (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 3/26/12 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)	6/30/2016	6/30/2017	The contract was advertised on 3/22/13. The lowest bidder is Inland Videos. The contract 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)	5/15/2016	5/15/2017	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 Gwynne Run Interceptor - Phase II From Franklin Street to Baltimore Street	SC 932 - Improvements to Lower Gwynne Run Interceptor - Phase II From Franklin Street to Baltimore Street - microtunneling project	7/28/2013 (A)	11/15/15 (A)	11/15/16 (P)	The contract was advertised on 7/20/13. Lowest Bidder is Bredraw Construction. Contract was awarded on 3/12/14 and NTP issued on 5/29/14. Project completed.
HL-5	SC933 - High Level Interceptor Cleaning	SC 933 - cleaning of the High Level Interceptor	7/28/2013 (A)	12/31/2016	12/31/2017	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)	6/4/2016 (A)	6/3/2016	The contract was advertised on 10/11/13. Lowest Bidder is Spheello. Contract was awarded on 3/10/14 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)	5/14/2016	5/14/2017	The contract was advertised on 8/16/13. Lowest Bidder is AV 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.	9/9/2013 (A)	5/13/2016	5/13/2017	The contract was advertised on 9/9/13. Lowest Bidder is Arch Construction. Due to unbalanced bid, the contract will be awarded to the lowest bidder, AV 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)	6/28/2016	6/29/2017	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)	10/22/17 (P)	10/22/18 (P)	The contract was advertised on 7/17/2015. Bid opening is 8/19/2015 and awarded to SAK.
Low Level Sewershed						
LL-1	SC922R - Low Level Interceptor Cleaning	SC 922R - cleaning of the Low Level Interceptor	1/31/2014 (P)	12/31/15 (A)	12/31/2016	The contract was advertised on August 16, 2013. Lowest Bidder is Video Pipe Services Construction. Due to unbalanced bids, the contract was awarded on 2/7/14. Lowest Bidder is Video Pipe Services Construction. Award date is 7/23/14. NTP issued on 10/1/2014. Project completed.
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)	4/29/2016	4/29/2017	The contract was advertised on 9/20/13. The lowest bidder is Melira. 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)	7/30/2016	7/30/2017	The contract was advertised on 9/20/13. The lowest bidder is Insituform. 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)	4/30/2018 (P)	4/30/2019 (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 March 31, 2016**

Gwynns Falls Sewershed						
GF-1	SC 920 - South Area Gwynns Falls	SC 920 - Improvements to the Gwynns Falls Sewershed Collection System - Area A	6/9/2014 (A)	11/14/2016	11/24/2017	The contract was advertised on 6/11/14. The lowest bidder is SAK Construction. NTP was issued on 1/12/2015.
GF-2	SC 939R - Maidens Choice Pressure Sewer Inspection and Upgrades Sewer Rehab	SC 939R - Maidens Choice Pressure Sewer Inspection and Upgrades Sewer Rehab	6/26/2015 (A)	TBD (P)	TBD (P)	The contract was advertised on 6/26/2015. Bid opening is 7/29/2015. Bid is rejected, completion date TBD.
Dundalk Sewershed						
DD-1	SC 902 - Sewer Rehab in the Dundalk	SC 902 - Sewer Rehab in the Dundalk Sewershed	3/6/2015 (A)	11/12/2017	11/12/2016	The contract was advertised on 3/6/15. Bid opening is 4/6/2015. The lowest bidder is Spinello. NTP will be issued on 10/14/2015.
Palapasco Sewershed						
PA-1	SC 903 - Sewer Rehab in the Palapasco Sewershed	SC 903 - Sewer Rehab in the Palapasco Sewershed	7/24/2015 (A)	4/30/2018	4/30/2019	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. JFN-02-1524  
 List of Illegal Connections

Full Address	Person/Entity Responsible	Source Type	Date Identified	Dye Result	Current Status	Comments
1. 5904 Benezet Ave.	172/B 7 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
2. 5003 Blimrose Ave.	311/A 7 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
3. 3115 Park Heights Ln.	712/B 16 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
4. 3115 Park Heights Ln.	712/B 16 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
5. 5601 Deeks Ln.	246/B 11 Property Owner	Area Drain	3/21/2005	Positive	Newly Identified	Confirmed Not Illegal
6. 2338 Crest Rd.	14/A 2 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
7. 2302 Crest Rd.	13/A 5 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
8. 5516 Cross Country Blvd.	99/A 2 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
9. 5516 Cross Country Blvd.	99/A 2 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
10. 5329 Fairlane Dr.	154/B 2 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
11. 6008 Fairbrent Rd.	172/B 11 Property Owner	Downspout Connection	5/20/2005		Newly Identified	Confirmed Not Illegal
12. 6008 Fairbrent Rd.	172/B 11 Property Owner	Downspout Connection	5/20/2005		Newly Identified	Confirmed Not Illegal
13. 3808 Genesee Ave.	275/B 13 Property Owner	Downspout Connection	5/20/2005		Newly Identified	Confirmed Not Illegal
14. 6309 Greenspring Ave.	153/B 5 Property Owner	Downspout	4/03/2011		Illegal	It was confirmed as an illegal connection in January 2011 after carrying out more dye-testing. A letter was sent to the property owner on August 08, 2011. A follow up letter dated 01/09/2012 was sent to the property owner requesting that the illegal connection be disconnected. Corrective action has been taken. The 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	5/20/2005		Newly Identified	Confirmed Not Illegal
17. 2416 Ken Oak Rd.	103/A 2 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
18. 2416 Ken Oak Rd.	103/A 2 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
19. 5509 May Ave.	50/B 4 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
20. 2504 Lanyale Rd.	154/B 7 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
21. 5815 Loomis Rd.	116/B 11 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
22. 4424 Marble Hill 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 28, 2011, with Marble Hill Apartment management to discuss the progress of relocating 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 has not prevented storm water getting into the sanitary sewers. Further connection is being done to permanently resolve the issue. A letter dated 11/29/11 was sent to HCD to continue enforcement. Property owner is not responsive. DPW will continue to monitor the location. This violation has been closed. A CIP representative visited the site and conducted visual inspection and dye test on March 11, 2013 to confirm. This location is closed.
23. 3 Millbrook Rd.	ID 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 11/29/11 was sent to the property owner requesting that the temporary seal be removed.
24. 5806 Park Heights Ave.	78/B 4 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
25. 78/B 2 Property Owner	78/B 2 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
26. 78/B 3 Property Owner	78/B 3 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
27. 78/B 9 Property Owner	78/B 9 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
28. 78/B 8 Property Owner	78/B 8 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
29. 5925 Park Heights Ave.	95/B 2 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
30. 6414 Park Heights Ave.	315/A 4 Property Owner	Downspout Connection	5/20/2005		Newly Identified	Confirmed Not Illegal
31. 7136 Park Heights Ave.	188/B 16 Property Owner	Downspout	5/20/2005	Positive	Newly Identified	Confirmed Not Illegal
32. 7136 Park Heights Ave.	188/B 16 Property Owner	Downspout Connection	5/20/2005		Newly Identified	Confirmed Not Illegal
33. 6311 Pearce Ave.	203/B 5 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
34. 6106 Pearce Ave.	203/B 4 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
35. 6106 Pearce Ave.	135/A 1 Property Owner	Downspout	5/20/2005	Positive	Newly Identified	Confirmed Not Illegal
36. 6306 Pearce Rd.	127/B 1 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
37. 5503 Ruse Ave.	30/B 1 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
38. 3208 Sharnburne Rd.	34/A 1 Property Owner	Downspout	5/20/2005	Positive	Newly Identified	Confirmed Not Illegal
39. 1722 South Rd.	324/A 2 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
40. 1607 Toney Rd.	183/B 6 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
41. 1607 Toney Rd.	183/B 6 Property Owner	Downspout	5/20/2005	Positive	Newly Identified	Confirmed Not Illegal
42. 2615 Toney Rd.	583/B 2 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
43. 2700 Toney Rd.	683/B 8 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
44. 2628 Toney Rd.	182/B 6 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
45. 2628 Toney Rd.	182/B 5 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
46. 7810 W. Strathmore Ave.	180/A 5 Property Owner	Downspout	5/20/2005		Newly Identified	Confirmed Not Illegal
47. 3507 Chesnam Rd.	Property Owner	Downspout	5/20/2005	Positive	Newly Identified	Confirmed Not Illegal
48. 6738 Park Heights Ave.	Property Owner	Downspout	5/20/2005	Positive	Newly Identified	Confirmed Not Illegal
49. 4414 Seward Ave.	Property Owner	Downspout	5/20/2005	Positive	Newly Identified	Confirmed Not Illegal
50. 4414 Seward Ave.	Property Owner	Downspout	5/20/2005	Positive	Newly Identified	Confirmed Not Illegal
51. 2705 Queen Anne Ave.	Property Owner	Downspout	5/20/2005	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**

Back: Area, P, S & Elec.

Short problem  
Description

Full Problem  
Description

HO Ptr  
Sts Ptry Code W/O  
Code Number

Machine  
Description

CLINT 891125 CLINTON ST. FORCE MAIN 25 4 PWA 13-81574

PENG-ATTEND MEETING W/CON 539.

Total \* PENC \* Work Orders:

COUNT 1

Area \* \* Work Orders:

COUNT 1

Area	Loc. No.	Machine No.	HO Sts	Ptry Code	W/O Number	Short Problem Description	Full Problem Description	Req. Code	Est. No.	Est. Date	Est. Type
PUMPING ST	891000	BROOKLYN PUMPING FACILITY, BROOKLYN PUMPING	25	3	14-80991	BLOS/ REPAIR ROOF LEAK (E STEELPERC 64972		CS	20131024	018	
	891000	BROOKLYN PUMPING FACILITY, BROOKLYN PUMPING	25	30	12-80942	BLOS/ MAKE REPAIRS TO W/O IN BACK OF STA. SULLIVAN 6-4972		BS	20110913	048	
	894301	TANK, AIR RETENTION #1	25	30	16-81130	BLOS/ PUMPS-REPLACE PRESSU VALVE.		CS	20131114	015	
	891000	BROOKLYN PUMPING FACILITY, BROOKLYN PUMPING	25	4	13-82703	BLOS/ REPAIR LEAK IN PUMP ROOM STEELPERC 64972		CS	20130311	058	
	891000	BROOKLYN PUMPING FACILITY, BROOKLYN PUMPING	25	4	15-80620	BLOS/ BUILT-UP STEPS FOR THE TRAP TO TAKE WORKING ON UNIT EASTER. REQ. BY W.HOOKS 6574-4		CS	20141003	060	
	891000	BROOKLYN PUMPING FACILITY, BROOKLYN PUMPING	25	4	15-82248	BLOS/ REPAIR ROOF LEAKS - see Curtis steelperc } 64972		CS	20130303	015	
	897701	FOUNTAIN, DRINKING WATER	25	4	15-82854	BLOS/ ON-REPAIR OR REPLACE COOLER		CS	20150104	015	
	841000	DUNDALE PUMPING FACILITY, DUNDALE PUMPING	25	30	15-81059	BLOS/ REPAIR BROKEN LOCK ON back door steelperc 64972		CS	20140114	033	
	841000	DUNDALE PUMPING FACILITY, DUNDALE PUMPING	25	4	14-81687	BLOS/ REPAIR BROKEN LOCK ON back door steelperc 64972		CS	20140201	058	
	841000	DUNDALE PUMPING FACILITY, DUNDALE PUMPING	25	4	14-81940	BLOS/ CON. TYPING INTO DR. DOCUMENT.		CS	20140201	071	
	841000	DUNDALE PUMPING FACILITY, DUNDALE PUMPING	25	4	14-82463	BLOS/ REPAIR PLESH VALVE. (valve leaking) steelperc 64972		CS	20140201	071	
	841000	DUNDALE PUMPING FACILITY, DUNDALE PUMPING	25	4	15-81061	BLOS/ SCREW AND PAINT STA PUMP ROOM.		CS	20150106	026	
	841000	DUNDALE PUMPING FACILITY, DUNDALE PUMPING	25	4	15-81062	PLUMBING TEST		CS	20150106	026	
	841000	DUNDALE PUMPING FACILITY, DUNDALE PUMPING	25	4	15-81652	BLOS-PAINT STATION FRONT, scrape and paint W. JOHNSON 6-4974		CS	20150111	019	
	841000	DUNDALE PUMPING FACILITY, DUNDALE PUMPING	25	4	15-81871	BLOS- DISINFECT ROOF-LEAK IN W. JOHNSON 6-4972		CS	20150111	019	
	847803	FOUNTAIN, WATER	25	4	15-82656	BLOS/ REPAIR OR REPLACE COOLER		CS	20150106	026	
EASTER	911000	FACILITY, EASTERN AVENUE	25	2	15-81880	BLOS/ MAKE REPAIR AT PUMP. REQ BY C. STELPERC 6-4972		CS	20150106	026	
EASTER	911000	FACILITY, EASTERN AVENUE	25	30	13-82280	BLOS/ GULCH HANDLING IN CO SULLIVAN 6-4972		CS	20130906	055	
EASTER	911000	FACILITY, EASTERN AVENUE	25	30	15-81017	BLOS/ TOILET LEAKING. REQ BY R. DARTON JR		CS	20140824	018	
EASTER	911000	FACILITY, EASTERN AVENUE	25	30	15-81022	BLOS/ REPAIR SCREEN ROOM STEELPERC 64972		CS	20141114	015	
EASTER	911000	FACILITY, EASTERN AVENUE	25	30	15-81033	BLOS/ REPAIR SCREEN ROOM STEELPERC 64972		CS	20141114	015	
EASTER	911000	FACILITY, EASTERN AVENUE	25	30	15-81651	BLOS/ UNCLAS. URGAIN LINE & STEELPERC 64972		CS	20150106	026	
EASTER	911000	FACILITY, EASTERN AVENUE	25	30	16-81106	BLOS/ FIX GLASS ON FRONT D W. JOHNSON 6-4972		CS	20160106	026	
EASTER	911000	FACILITY, EASTERN AVENUE	25	4	14-81677	BLOS/ ROOF LEAKING, SECONDARY REQ BY C. STELPERC		CS	20140824	018	
EASTER	911000	FACILITY, EASTERN AVENUE	25	4	14-82488	BLOS/ REPAIR SCREEN ROOM see chics 64972		CS	20140707	035	
EASTER	911000	FACILITY, EASTERN AVENUE	25	4	15-80004	BLOS/ UNCLAS URGAIN LINE & STEELPERC 64972		CS	20140707	035	
EASTER	911000	FACILITY, EASTERN AVENUE	25	4	15-80020	BLOS/ PAINT OFFICE WALLS STEELPERC 64972		CS	20140824	018	
EASTER	911000	FACILITY, EASTERN AVENUE	25	4	15-80828	BLOS/ REPAIR DOOR SCREEN STEELPERC 64972		CS	20140707	035	
EASTER	911000	FACILITY, EASTERN AVENUE	25	4	15-81887	BLOS-PAINT PUMP MOTOR AND WJ		CS	20140707	035	
EASTER	911203	MOTOR, SHOCK PUMP #3	25	4	15-81888	BLOS-PAINT PUMP MOTOR AND WJ		CS	20140707	035	
EASTER	911204	MOTOR, SHOCK PUMP #4	25	4	15-81888	BLOS-PAINT PUMP MOTOR AND WJ		CS	20140707	035	
EASTER	911205	MOTOR, SHOCK PUMP #5	25	4	15-81888	BLOS-PAINT PUMP MOTOR AND WJ		CS	20140707	035	
EASTER	911818	FOUNTAIN, WATER	25	4	15-82653	BLOS/ ON-REPAIR OR REPLACE COOLER		CS	20150106	026	
EASTER	911818	FOUNTAIN, WATER	25	4	16-80002	BLOS-PAINT WATER PRESSURE W. JOHNSON 6-4972		CS	20160106	026	
EASTER	916000	BUILDING, ENER. GENERATOR	25	4	16-81321	BLOS-REPAIR OUTSIDE WALL. SEE GENERAL FOUNDER		CS	20160106	026	
EASTER	911000	FACILITY, EASTERN AVENUE	25	4	16-81695	BLOS/REPLACE SCREENS ON SC. LOCK (missing?) steelperc 64972		CS	20140816	018	
JF	920012	METER, OVERBOARD (LEVEI.	25	30	14-82473	BLOS-4-8SP. FINE BR/4-0100K REQ BY R. DARTON JR		CS	20140824	018	
JF	920081	PLC/LOCAL CONTROL STATION	25	30	14-82481	BLOS/REPAIR HINGE ON OFF1 STA. REQ. 64972		CS	20140824	018	
JF	921001	FACILITY, JONES FALLS	25	30	13-81912	BLOS-INS-TALL. FURNACE TO BE REPAI BY C. STELPERC		CS	20130827	018	
JF	921001	FACILITY, JONES FALLS	25	4	13-81912	BLOS/REPAIR FRONT DOOR AT STEELPERC 64962		CS	20130827	018	
JF	921001	FACILITY, JONES FALLS	25	4	14-80980	BLOS/ REPAIR ROOF LEAK. A. WEST PARK } steelperc 64972		CS	20140824	018	
JF	921000	FACILITY, JONES FALLS	25	4	14-82432	BLOS/ REPAIR OFFICE WINDOW. STEELPERC 64972		CS	20140824	018	

Continued Machine Reports  
 CH 5 & 700'S  
 Back Range 15 & 1000

Co. No.	Area	Loc.	Machine Number	Machine Description	MO	Sts	Prty Code	W/O Code	Print Number	Short Problem Description	Full Problem Description	Ref. Co. No.	Shift	MO	Wk Sht
															Typ
11	PUMPING	ST JF	926702	FOUNTAIN WATER COOLER	25	4		15-82852		BLDS/HA-REPAIR OR REPLACE water cooler		40	ELX	20100301	WIS
		JF	921000	FACILITY JONES FALLS	25	4		16-80407		BLDG-REPLACE LARGE PAPER IN bathroom		40	ELX	20100301	WIS
		JF	921000	FACILITY JONES FALLS	25	4		16-81311		BLDG-REPAIR TOILET KUNNIN W. JARVIS 6-4972		40	ELX	20100301	WIS
		LOPO	985000	FACILITY LOUST POINT	25	30		12-80436		BLDG-CLEANER BLOCKS REPAIR door frames. 30111111 6-4972		05	05	20100301	WIS
		LOPO	985000	FACILITY LOUST POINT	25	4		14-82487		BLDG/REPLACE TOILET TOILET STEELPER 64972		05	05	20100301	WIS
		PCST	975000	FACILITY MCCOMBS	25	30		16-80006		BLDG-FOUNTAIN WATER BRKES W. JOHNSON 6-4972		40	ELX	20100301	WIS
		GUAD	934301	TANK AIR RECEIVER	25	30		16-81104		BLDG-1ST FLOOR DRAIN CLOG RED BY C-STEELPER		05	05	20100301	WIS
		GUAD	935906	FOUNTAIN WATER	25	4		15-82857		BLDG-REMOVE PRINT FROM OR K. WARE PLATE HAS BEEN PAINTED OVER AND UNRECOVERABLE.		40	ELX	20100301	WIS
		MSPTT	971000	FACILITY WESTPORT	25	4		13-80682		BLDG-HALL SPOOTS NEED REP STEELPER 64972		05	05	20100301	WIS
		MSPTT	971000	FACILITY WESTPORT	25	4		15-82858		BLDG/HA-REPAIR OR REPLACE COOLER		40	ELX	20100301	WIS

Total = BLDG \* Work Order:  
 COUNT 53

BRDLYN	955101	GENERATOR-EMERGENCY SET	25	2	15-81887					ELCS-REPORT TO RESET GEN W. JOHNSON 6-4972		40	ELX	20100301	WIS
BRDLYN	953101	SCREEN MECHANICAL BAR	25	3	13-80957					ELCS - BAR SCREEN BAR REPAIR: K. KUBSKI 6-4972.		05	05	20100301	WIS
BRDLYN	952202	ACTUATOR #2 PUMP DISCHARGE	25	30	12-80163					ELCS-REPAIR UNIT 90111111 6-4972		05	05	20100301	WIS
BRDLYN	952202	ACTUATOR #2 PUMP DISCHARGE	25	30	12-80180					ELCS/HA-REPAIR: TOILET STEELPER 64972		05	05	20100301	WIS
BRDLYN	955303	SMITCH-TRANSFER ENERG-GEN	25	30	12-80520					ELCS-PAKE: UNDESIRABLE REP NOT SHUTDOWN. SULLIVAN 6-4972		05	05	20100301	WIS
BRDLYN	953201	MOTOR-BAR SCREEN	25	30	12-81843					ELCS-OPER. SAID HEA SHIT SULLIVAN 6-4972		05	05	20100301	WIS
BRDLYN	952103	VALVE #3 PUMP DISCHARGE	25	30	13-81853					ELCS/PCS-INSPERT VLD F not reading steelperc 64972		05	05	20100301	WIS
BRDLYN	955301	FAN #1 EXHAUSTION ROOF	25	4	12-80168					ELCS/REPAIR FAN MOTOR & steelperc 64972		05	05	20100301	WIS
BRDLYN	952102	VALVE #2 PUMP DISCHARGE	25	4	12-80172					ELCS/REPAIR VALVE CONTROL steelperc 64972		05	05	20100301	WIS
BRDLYN	950003	PANEL - PLC/LOCAL CONTROL	25	4	12-81192					ELCS-INVESTIGATE WHY VLD open drive fails to start steelperc		05	05	20100301	WIS
BRDLYN	952101	VALVE #1 PUMP DISCHARGE	25	4	12-81216					ELCS-TRUCK OPERATION OF VAL. BY J. MAROCK 6-9749		05	05	20100301	WIS
BRDLYN	951202	MOTOR-SEWAGE PUMP #2	25	4	12-82290					ELCS/REPAIR DRIVE TRIPPI Inhibit-steelperc 64972		05	05	20100301	WIS
BRDLYN	951203	MOTOR-SEWAGE PUMP #3	25	4	12-82741					ELCS/REPAIR DISCONNECT SWI steelperc 64972		05	05	20100301	WIS
BRDLYN	950003	PANEL - PLC/LOCAL CONTROL	25	4	12-83007					ELCS/IN-PLET I/O CARD F operation steelperc 64972		05	05	20100301	WIS
BRDLYN	950003	PANEL - PLC/LOCAL CONTROL	25	4	12-83330					ELCS/CONTROL PLY FOR PUMP STEELPER 64972		05	05	20100301	WIS
BRDLYN	956311	UPS-SYSTEM	25	4	12-83353					ELCS/ASSIST TMSHS ops in steelperc 64972		05	05	20100301	WIS
BRDLYN	951103	PUMP-SEWAGE #3	25	4	13-81856					ELCS/ELCS-REPLACE PMP STEELPER 64972		05	05	20100301	WIS
BRDLYN	951101	PUMP-SEWAGE #1	25	4	13-82253					ELCS/ASSIST TMSHS ops in steelperc 64972		05	05	20100301	WIS
BRDLYN	957101	PUMP #1 SUPERSEUBLE SUMP	25	4	14-82425					ELCS/REPAIR PUMP (NOT IN STEELPER) 64972		05	05	20100301	WIS
CARDL	985303	PUMP-STORM DRAIN #3	25	4	16-81715					ELCS-ASSIST VENDOR WITH SPG. BY J. MAROCK 6-9749		05	05	20100301	WIS
CLINT	991121	FACILITY CLIMATE STA. #1	25	30	15-80605					ELCS/PCS/SYSTEM-NO PAK RED BY J. MAROCK 6-9749		05	05	20100301	WIS
COLGAT	949202	MOTOR-STORM DRAIN PUMP	25	4	12-80594					ELCS/PCS-REPLACE DEWAIN VENDOR C. STEELPER 6-9752		05	05	20100301	WIS
COLGAT	949202	MOTOR-STORM DRAIN PUMP	25	4	14-80522					ELCS/INVESTIGATE PAKER I steelperc 64972		05	05	20100301	WIS
COLGAT	949201	MOTOR-STORM DRAIN PUMP	25	4	14-80528					ELCS/ASSIST CONTRIBUTION PAKER I steelperc 64972		05	05	20100301	WIS
COLGAT	949205	LIGHTS-EMERGENCY	25	4	14-82881					ELCS-REPAIR LIGHT REP. 6-7049		05	05	20100301	WIS
DUNDAL	941101	PUMP-SEWAGE #1	25	30	14-80559					ELCS/PCS-REPLACE COMPL. STEELPER 64972		05	05	20100301	WIS
DUNDAL	943407	MOTOR-ROLLING GARAGE DOOR	25	30	15-81639					ELCS/REPAIR DOOR (NOT IN STEELPER) 64972		05	05	20100301	WIS
DUNDAL	948103	CONTROL-VPD #2 SEWAGE PUMP	25	30	15-82229					ELCS/PCS-ELCS-REPAIR (REPAIR) FACT steelperc 64972		05	05	20100301	WIS
DUNDAL	945102	SCREEN #2 BAR	25	4	12-82379					ELCS-ASSIST TECH-AND RE. BOOKS 65971		05	05	20100301	WIS
DUNDAL	941000	FACILITY DUNDALK PUMPING	25	4	13-81668					ELCS-REPLACE SWITCH FOR BAR SCREEN ROOM		05	05	20100301	WIS
DUNDAL	947403	HEATER-UNIT GENERATOR RFD	25	4	13-81075					ELCS/REPLACE UNIT HEATE steelperc 64972		05	05	20100301	WIS
DUNDAL	948104	CONTROL-VPD #3 SEWAGE PUMP	25	4	13-82245					ELCS/REPAIR PAKER I REP. BY J. MAROCK 6-9749		05	05	20100301	WIS
DUNDAL	941000	FACILITY DUNDALK PUMPING	25	4	14-80969					ELCS/PCS-REPAIR LIFT LIF / 50 area steelperc 64972		05	05	20100301	WIS
DUNDAL	944601	PUMP-VACUUM #1	25	4	14-81226					ELCS/ASSIST MGR. ALTA RE STEELPER 64972		05	05	20100301	WIS
DUNDAL	944603	PUMP-VACUUM #3	25	4	14-81245					ELCS/PCS-REPAIR PUMP I steelperc 64972		05	05	20100301	WIS



Facility No.	Area	Loc.	Machine Number	Machine Description	WO SITS	Plnt Code	WO SITS	Plnt Code	Short Problem Description	Full Problem Description	By	Issue Date	Work Order No.	Work Order Date
11	PUMPING ST	JP	928104	PANEL-STATION ALARM	25	4	16-81117	44	ELCPS/OPSKY - RELOCATE THE 4-wire heater from operating levelist stielperc 64972		CS	20151116	441	
		JP	924101	SCREEN-BAR #1 (FRONT) CLEAN	25	4	16-81700	441	ELCPS/ELCPS-REPAIR #1BAR BOX COME apart from motor		CS	20160311	415	
		JP	926305	LOUVER-MOTOR OPERATED/GEN	25	4	16-81074	415	ELCPS/ FAN/E REPAIRS TO LO open 1 stielperc 64972		CS	20160204	415	
		LOCPD	987402	HEATER-UNIT	25	30	12-81853	423	ELCPS- UNIT NOT WORKING I manually. Sullivan 6-4972		CS	20111724	423	
		PLCST	985202	MOTOR-SHAKE PUMP B	25	4	13-80639	446	ELCPS/MCHS-CHECK PUMP BE RED BY K.MUSKI		CS	20121117	446	
		OUAD	927401	PANEL-BAR SCREEN CONTROL	25	30	12-80151	415	ELCPS/ALERT K FOR OPERATOR stielperc 64972.		CS	20110712	415	
		OUAD	182100	SWITCH-PHIN	25	30	13-80579	422	ELCPS RESET BAR SCREEN- O FRG. BY J. NAROCK 6-9748		CS	20121011	422	
		OUAD	937121	VFD-#1 PUMP	25	30	13-81879	415	ELCPS-REPLA TRANCEF. SMITH Sullivan 6-4972		CS	20130212	415	
		OUAD	937123	VFD-#3 PUMP	25	30	15-82014	415	INSPS-ALERT #3 VFD(MAKING W. MANSUK 6-9752		CS	20150415	423	
		OUAD	931202	MOTOR-#2 SERVICE PUMP(SUB)	25	4	13-80571	415	ELCPS-TEAM REPAIRS TO NOT requester R Slayton 6-9752		CS	20120825	423	
		OUAD	937121	VFD-#1 PUMP	25	4	13-80640	415	ELCPS-TEAM REPAIRS: TO TDS Job 75525 requester r. Slayton 6-9748		CS	20121011	415	
		OUAD	931201	MOTOR-#1 SERVICE PUMP(SUB)	25	4	13-80633	441	ELCPS/ INSPECT CAUSE FOR stielperc 64972		CS	20121102	441	
		OUAD	935301	LIGHT PACK-EPIDENCY	25	4	13-81915	440	ELCPS-REPAIR/REPLA FEIT REA. BY J. NAROCK 6-9748		CS	20130401	440	
		OUAD	932302	OPERATOR-#2 PUMP COME VAL.	25	4	14-82430	415	ELCPS/MCHS-REPAIR OPERAT (occasionally) stielperc 74972		CS	20140423	415	
		OUAD	936103	FAN-#3 TRIN FOUR EXHAUST	25	4	15-80001	425	HA/ELCPS-REPAIR (NOISE) H stielperc 64972		CS	20150707	425	
		SPROU	985200	FACILITY-PIER SIX	25	4	12-83332	421	ELCPS/INSPECT FLOATS FOR stielperc 64972		CS	20120616	421	
		STRUN	991134	PUMP-BAR SERVICE #4 W/PTO	25	30	11-83155	441	ELCPS-SUCKING SEAL LEAK F (replaced). Sullivan 6-4972		CS	20110414	441	
		STRUN	991133	PUMP-BAR SERVICE #3 W/PTO	25	30	12-80833	415	ELCPS-SEAL LEAK FAULT IN. (bass. increased). Sullivan 6-4972		CS	20120415	415	
		STRUN	991167	PANEL-VFD CONTROL #1 (VSP)	25	30	15-82015	415	INSPS/ELCPS-REPAIR FAULT (F-R over temp) stielperc 64972		CS	20150416	415	
		STRUN	991227	PUMP-SHMP #1	25	30	15-82016	415	INSPS/ELCPS-REPAIR FAULT (F-R over temp) stielperc 64972		CS	20150416	415	
		STRUN	991133	PUMP-BAR SERVICE #3 W/PTO	25	4	12-82269	474	ELCPS-REPAIR FAULT REQ BY C.STELPER		CS	20120209	474	
		STRUN	991133	PUMP-BAR SERVICE #3 W/PTO	25	4	13-80034	473	ELCPS-TEAM REPAIRS TO PUMP requester r. Slayton 6-9752		CS	20130740	473	
		STRUN	991145	GENERATOR-SPERENCY SET	25	4	16-80657	441	ELCPS-GEN. GEN. (LOW BATT & MANSUK 6-4972		CS	20160311	441	
		STRUN	991135	PUMP-WET WELL SUMP (OUTSET)	25	4	16-80661	425	ELCPS/MCHS- REPAIR PUMP (logged) stielperc 64972		CS	20150821	425	
		MSPTT	970002	FLOW INDICATING RECORDER/	25	30	12-83349	423	INSPS-METER SHOWING FLOW not th. Sullivan 6-4972		CS	20120530	423	
		MSPTT	972201	MOTOR-BAR SCREEN	25	30	13-81378	421	ELCPS/MCHS-MAKE REPAIRS vent run stielperc 64972		CS	20121226	421	
Total * ELCPS * Work Order #: 112														
COUNT 112														
COLGAT	946202	MOTOR-STORM DRAIN PUMP	25	4	12-80654	2	ELC/ELCPS-REPLACE BEARING requester r. Slayton 6-9752		RLC	B.H.C	20110624	415		
EASTER	917302	CRANE-MONORAIL (5 TON)	25	3	13-80570		ELC. - BROKEN ELECTRIC C LL UNIT		KK		20130821	421		
EASTER	918510	FAN-EXHAUST	25	30	14-80012	1	HA/ELCPS/REPAIR UNIT KEEP stielperc 64972		CS		20130717	421		
EASTER	911000	FACILITY-EASTERN AVENUE	25	4	12-81831	1	ELC-REPAIR PHONE LINE (L-410) 9564972)stielperc		CS		20111212	444		
ELLAND	961000	FACILITY-HIGHLANDTOWN	25	4	ELZ	12-82123	1	ELC- INVESTIGATE POSSIBLE a well wall mounted heater/Ctrl is 64972		CS	20120124	422		
JP	921000	FACILITY-JONES FALLS	25	4	12-81885		ELC-- REPAIR PHONE LINE : 410-196-7288-no exchange stielperc 64972		CS		20131013	444		
JP	921000	FACILITY-JONES FALLS	25	4	11-81960		ELC-- INSPECT PHONE JACK office stielperc 64972		CS		20111118	444		
OUAD	937138	SYSTEM-SCADA	25	4	11-83151	1	ELC-VERIZON TO CHECK PRO stielperc 64972		CS		20110411	444		
OUAD	182100	SWITCH-PHIN	25	4	11-80355	1	OPSKY/ BATTERY CONTINGENT stielperc 64972		CS		20100222	444		
MSPTT	970002	FACILITY-WESTPORT	25	4	12-80185		ELC-REPLA BEARING WOULD st. quad are for 1500 transformer		CS		20110725	422		
			25	4	12-82734		ELC/VERIZON TO STRENGTH & attenuation June 410 396-7514---stielperc 64972		CS		20120321	444		
Total * ELC * Work Order #: 11														
COUNT 11														
CARDL	985300	FACILITY-CAROLINE ST. P. S.	25	30	16-80651		GRDS / HSC CON TO CLEAN stielperc 64972		CS		20160304	445		
CARDL	985300	FACILITY-CAROLINE ST. P. S.	25	30	16-80683		GRDS /HSC TRUCK TO CLEAN stielperc 64972		CS		20160304	445		
CARDL	985302	PUMP-STORM DRAIN #2	25	4	16-80675		GRDS-REPOSITION PUMP TO S. SIDE WITH RAINK. REQ BY J. NAROCK 6-9748		CS		20160304	424		
DUNBAR	941000	FACILITY-DUNBAR PUMPING	25	4	16-81877		GRS--BOTH TRUCKS NEEDED TO TO STATION-REQ BY H.HOOKS 69733		CS		20160304	424		

Co. No.	Area	Loc.	Machine Number	Machine Description	WO Sits	Prty Code	W/O Number	Short Problem Description	Full Problem Description	Req. Code	By	DATE	W/O Issue Date	W/O Status
11	PUMPING ST	EASTER 915034	DUMPSTER (NORTH)		25	30	15.82020	GRUS-HEED W/BL TRUCK	wastepet screen room dumpster(dumpster #11)_	41	GR05	20150411	415	
		EASTER 911104	PUMP-SERVICE #4		25	4	15.80026	GRUS-ROOM TRUCK TO INFLINE	EVELYN TO EASTERN AVE.P.S.DIE DATE OF 7/22/15.REP.DY W.HARRIS	41	WH	20150721	434	

Total \* GR05 \* Work Orders:

COUNT 6

PRO. BY J. HARROCK 6-9748

BRULYN 955301	FAN-#1 EXHAUSTION ROOF P0	25	4	15.91029	HA-REPLACE BELT					41	GR	20141124	456	
BRULYN 957701	FOUNTAIN-DUNKING WATER	25	4	15.82654	BLDS/HA-REPAIR OR REPLACE cooler					41	GR	20150626	415	
CAROL 965603	AIR CONDITIONER (HUBBARD)	25	30	15.82346	HA /REPLACE AC UNIT (BLow straipterc 64972					25	CS	20150618	415	
CAROL 965603	AIR CONDITIONER (HUBBARD)	25	30	16.90726	HA /REPLACE R/C UNIT ( NO straipterc 64972					25	CS	20150604	415	
DUNBAL 947507	FAN-#2-4 EXHAUST (ROOF)	25	30	16.80020	HA-NOT WORKING NO BLK	straipterc 6 4972				25	CS	20150715	415	
DUNBAL 947803	FOUNTAIN-WATER	25	4	15.82636	BLDS/HA-REPAIR OR REPLACE cooler					41	GR	20150626	415	
EASTER 915309	FAN-EXHAUST (EAST)	25	30	14.80009	HA/ELCP/REPAIR UNIT KEEP straipterc 64972					25	CS	20130717	421	
EASTER 915510	FAN-EXHAUST	25	30	14.80012	HA/ELCP/REPAIR UNIT KEEP straipterc 64972					25	CS	20130717	421	
EASTER 915417	AIR HANDLING UNIT AND CHI	25	30	16.80089	HA/PNG- REEPS SHUTTING D	straipterc 64972				25	CS	20150811	419	
EASTER 915303	FAN-EXHAUST	25	4	13.82715	HA-REPAIR FAN (TRIPPED O	load-straipterc 64972				25	CS	20130618	421	
EASTER 915404	HEATER UNIT #4(PUMP FLP)	25	4	13.82722	HA-REPAIR LEAKING HEATER	straipterc 64972				25	CS	20130621	416	
EASTER 915413	HEATER UNIT #1	25	4	14.81688	BLDS/HA-REPAIR HEATER IN	straipterc 64972				25	CS	20140124	415	
EASTER 915414	HEATER UNIT #2	25	4	14.81699	BLDS/HA-REPAIR HEATER F	straipterc 64972				25	CS	20140124	415	
EASTER 915415	HEATER UNIT #3(ROD FLOOR)	25	4	15.81629	HA-REPLACE HEAT/AC UNIT I	straipterc 64972				25	CS	20150626	415	
EASTER 911818	FOUNTAIN-WATER	25	4	15.82653	BLDS/HA-REPAIR OR REPLACE cooler					41	GR	20150626	419	
EASTER 911000	FACILITY-EASTERN AVENUE	25	4	15.82670	HA -REPAIR DRAIN LINE O	FFPLE				41	GR	20150626	419	
EASTER 913603	MACHINE-ICE W/FLTERS	25	4	16.809873	HA-REPAIR ICE MAKER-NOT W	MAJONKSON 6-4972				41	GR	20150626	415	
EASTER 915101	BOILER #1	25	4	16.809862	HA-REPLACE PRESSURE RELIE	valve 15 bsd				41	GR	20150626	415	
EASTER 915201	PUMP-RECTIC #1(BOILER)	25	4	16.81689	MC/PS/HA - ASSIST CLEAN P	U straipterc 64972				25	CS	20160105	415	
JP 926702	FOUNTAIN-WATER COOLER	25	4	15.82652	BLDS/HA-REPAIR OR REPLACE	water cooler				41	GR	20150626	415	
LOPO 965000	FACILITY-LOCUST POINT	25	4	16.80006	BLDS-FOUNTAIN-WATER(BROKE	H.JONKSON 6-4972				41	GR	20150708	419	
NEST 975901	FOUNTAIN-WATER	25	4	16.80005	HA -WATER NOT COLD	H.JONKSON 6-4972				41	GR	20150708	419	
NEST 975901	FOUNTAIN-WATER	25	4	16.80005	HA -WATER NOT COLD	H.JONKSON 6-4972				41	GR	20150708	419	
QHD 936806	FOUNTAIN-WATER	25	4	15.82657	BLDS/HA-REPAIR OR REPLACE	cooler				41	GR	20150626	415	
STRUN 991152	UNIT-ATRAKIDLING #2	25	4	15.82019	HA/ADUET BELT ON FAN NOT	straipterc 6-4972				25	CS	20150417	423	
WSTPT 971000	FACILITY-WESTPORT	25	4	15.82655	BLDS/HA-REPAIR OR REPLACE	cooler				41	GR	20150626	415	

Total \* HA \* Work Orders:

COUNT 26

CAROL 965301	PUMP-STORM DRAIN #1	25	30	15.82260	ELCP/ INSP- INVESTIGATE	(our temp/air temp) when running for extended time straipterc 64972				25	GR	20150626	451	
CAROL 965705	SYSTEM-BUBBLER	25	30	16.81236	INSP/ REPAIR LEVEL CONTR	(false reading) 64972				25	GR	20151217	416	
CAROL 965701	CONTROLLER, PUMP, #1	25	4	15.81484	INSP/OFSEK-INVESTIGATE C	not working in auto-straipterc 64972				25	CS	20150626	421	
CAROL 965710	CONTROL-P/C	25	4	16.80484	INSP-PLC-SKEEN HAS ON P	H.JONKSON 6-4972				41	GR	20150007	421	
CAROL 965605	REORDER-CHART-HEWELL	25	4	16.81136	INSP-CHECK REORDER. NOT	H.JONKSON 6-4972				41	GR	20151124	421	
DUNBAL 949103	CONTROL-UPD #2 SERVICE PUM	25	30	15.82229	OFSEK/INSP-ELCP/REPAIR	GROUND FAULT-straipterc 64972				25	CS	20150626	441	
DUNBAL 949103	CONTROL-UPD #2 SERVICE PUM	25	30	16.81113	INSP-REPAIR DRIVE FAULT	straipterc 64972				25	CS	20151112	441	
DUNBAL 949017	MONITOR-GAS	25	4	13.82694	INSP- CHECK FOR PROPS O	RED BY K BARTON JR				25	GR	20130607	438	
DUNBAL 949002	FLOW INDICATING RECORDER/	25	4	14.86627	INSP/ REPAIR UNIT NOT W	O straipterc 6 4972				25	CS	20140314	415	
DUNBAL 949002	FLOW INDICATING RECORDER/	25	4	14.82194	INSP/REPAIR CHART PEN NO	straipterc 64972				25	CS	20130812	415	
DUNBAL 949416	MONITOR-GAS	25	4	15.81463	INSP- REPLACE BAR SENSOR	EPD BY K BARTON JR				25	GR	20150116	415	
DUNBAL 949006	REORDER-NET HELL-BUBBLER	25	4	15.82013	INSP- REPLACE PEN CARTRI	GE (CENTRIDOP) NOT OF INK				25	GR	20150411	415	
DUNBAL 949001	UNIT-FAHAR #2-PARKS-REEN	25	4	15.82034	INSP- INSTALL NEW ULTRASO	H.JONKSON 6-4972				41	GR	20150401	415	
DUNBAL 949006	REORDER-NET HELL-BUBBLER	25	4	15.82625	INSP/ CHANGE RECORDER TO	straipterc 64972				25	CS	20150626	415	

Co. No.	Area	Loc.	Machine Number	Machine Description	W/O Sits	Plnr Code	W/O Number	Short Problem Description	POI Problem Description	Inst	Inst Date	Inst Svc Date	
11	PUMPING ST	DUNAL	940005	SYSTEM-SCADA	25	4	16-81688	INSPS-NOT COMMUNICATING	ISS BY M. JOHNSON	US	20150820	441	
			915609	SYSTEM-SCADA	25	3D	15-82263	INSPS/ RESTORE COMMUNICAT station off line	stielperc 64972	US	20150820	441	
			915609	SYSTEM-SCADA	25	3D	16-80638	INSPS/ INVESTIGATE CAUSE	Scas MPS stielperc 64982	US	20150817	441	
			910017	COMBUSTIBLE GAS ALARM	25	4	12-80543	INSPS/ REPAIR METER NOT W	stielperc 64972	US	20150819	423	
			910017	COMBUSTIBLE GAS ALARM	25	4	13-80631	INSPS- CHECK FOR PROPER O	REY BY R BARTON JR	US	20150819	423	
			913102	SCREEN-BAR (SOUTH)	25	4	16-80485	INSPS/ELPS-SOUTH RAKE MI	RUN, M. JOHNSON 6-4972	US	20150816	441	
			913102	SCREEN-BAR (SOUTH)	25	3D	15-82862	INSPS/RESTORE SCADA COMM	LOW COMMUNICATION stielperc 64972	US	20150820	441	
			920005	CONTROLLER-PROGRAMMABLE	25	3D	15-80289	INSPS/ELPS HAVE REPAIRS/	OUT SCREEN /PLC-STIELPERC 64972	US	20150820	441	
			926301	GENERATOR-EMERGENCY SET	25	3D	16-80414	INSPS/ ELPS-INVESTIGATE	breaker 52-G fault	stielperc 64972	US	20150820	441
			920091	PLC/LOCAL CONTROL STATION	25	3D	16-80430	INSPS/RESTORE BACK UP	PLC to control scheme stielperc c 64972	US	20150820	441	
			920092	PANEL-SCADA I/O	25	3D	16-80669	INSPS/ RESTORE SCADA COMM	stielperc 64972	US	20150820	441	
			928405	VF0-44 SEWAGE PUMP(CP490)	25	3D	16-80673	INSPS-REPAIR FAULT, WANT	VEN BY C. STIELPER	US	20150820	441	
			920018	BUBBLER (METHNELL)	25	4	12-81514	INSPS/ INJECT FOR PROPER	stielperc 64972	US	20150820	441	
			920092	PANEL-SCADA I/O	25	4	14-82472	INSPS/ REPAIR SCADA SYSTEM	COMMUNICATING? 64972	US	20150820	441	
			920012	METER-OVERBOARD (LEVEL)	25	4	14-82482	INSPS- REPLACE BAD UNIT	ISS BY R BARTON JR	US	20150820	441	
			920091	PLC/LOCAL CONTROL STATION	25	4	16-80667	INSPS/RESTORE BACK UP	PLC operating system 64972	US	20150820	441	
			920018	BUBBLER (METHNELL)	25	4	16-81332	INSPS- VERIFY LEVEL	READ stielperc 64972	US	20150820	441	
			920011	RECORDER-HEAT WELL LEVEL(P	25	4	16-81889	INSPS-REPAIR CHART NOT	RD M. JOHNSON 6-4972	US	20150820	441	
			986401	COMPRESSOR-AIR-INSTRUMENT	25	2	16-80680	INSPS/STRT4-REPLACE AIR	C CALL IN. M. JOHNSON 6-4972	US	20150820	441	
			985029	BUBBLER-SYSTEM	25	3D	16-80036	INSPS/REPAIR OR REPLACE	C line pressure	stielperc 64972	US	20150820	441
			975017	MONITOR-MULTI-GAS SYSTEM	25	4	13-80630	INSPS-CHECK FOR PROPER	OP REY BY R BARTON JR	US	20150820	441	
			975029	BUBBLER	25	4	13-81908	INSPS/ REPAIR LEAK	OR REED stielperc 64972	US	20150820	441	
			975017	MONITOR-MULTI-GAS SYSTEM	25	4	16-80023	INSPS-CHECK GAS METER	ALA CLIBP.	US	20150820	441	
			977907	PANEL-TELEPHONE	25	4	16-80894	INSPS/ VERIFY CANNOT TO	see Chris ( via Fish tape out ) 64972	US	20150820	441	
			975017	MONITOR-MULTI-GAS SYSTEM	25	4	16-81879	INSPS-CHECK GAS METER	ALA OFF	US	20150820	441	
			930002	FLAM INDICATING RECORDER/	25	4	14-82195	INSPS/REPAIR CHART FEEL	NO stielperc 64972	US	20150820	441	
			930017	DETECTOR-BAR SCREEN GAS	25	4	15-81043	INSPS- REPLACE BAD MONITO	RED BY R BARTON JR	US	20150820	441	
			930002	FLAM INDICATING RECORDER/	25	4	16-81630	INSPS-ARM ON RECORDER	NOT M. JOHNSON 6-4972	US	20150820	441	
			931167	PANEL-VFD CONTROL #1(KSP)	25	3D	15-82015	INSPS/ELPS-REPAIR FAULT	(4-5 over temp) stielperc 64972	US	20150820	441	
			931167	PANEL-VFD CONTROL #1(KSP)	25	3D	15-82016	INSPS/ELPS-REPAIR FAULT	(4-5 over temp) stielperc 64972	US	20150820	441	
			931171	PUMP-RAIN SEWAGE #1 W/POTO	25	3D	15-82666	INSPS/ REPAIR FAN FAULT	O (over run Fan fault on key pad) stielperc 64972	US	20150820	441	
			931171	METER-PLM METER	25	4	12-80847	INSPS/INJECT FOR OPERATI	on stielperc 64972	US	20150820	441	
			931174	PANEL-PLC	25	4	14-82494	INSPS/ TROUBLE SHOOT	PLC stielperc 64972	US	20150820	441	
			931203	METER-INFLUENT FLOW	25	4	16-80663	INSPS- REPAIR REPLACE	FLOW ( 36 " incoming not reading flow in stielperc 64972	US	20150820	441	
			931132	PUMP-RAIN SEWAGE #2 W/POTO	25	4	16-80664	INSPS- REPLACE DISCH PILES	stielperc 64972	US	20150820	441	
			931174	PANEL-PLC	25	4	16-80665	INSPS/ REPROGRAM THE	OPERA stielperc 64972	US	20150820	441	
			931131	PUMP-RAIN SEWAGE #1 W/POTO	25	4	16-80646	INSPS/ CLEAR FAULT ON	DR1 (over run) stielperc 64972	US	20150820	441	

Total \* INSPS \* Work Orders: COUNT 51

Total \* INST \* Work Orders: COUNT 1

INST-TO ORDER UP TRANSMIT FOR REPLACEMENT. SEE C.HELLIS/R. BARTON 6-9744

PLUMB/REPAIR HOLE IN SIDE

PLUMB/REPAIR HOLE IN DUMP

PLUMB-FABRICATE INDICATOR

PLUMB-PATCH HOLES IN DUMP

Co. No.	Area	Machine Loc.	Machine Description	NO Sts	Pnc Fty Code	W/O Number	Short Problem Description	Full Problem Description	Req. By	W/O Date	W/O Type	Chan Cls
11	PUMPING ST	EASTER 91803	DUMPFSTER (SOUTH)	25	4	15.82023	MCIPS/ REPAIR HOLE IN STD STEELPERC 64972		CS	20150421	WIS	
		EASTER 91804	DUMPFSTER (NORTH)	25	4	15.82026	MCIPS-PATCH HOLD IN PUMPS W. JOHNSON 4-4972		WJ	20150421	WIS	
		EASTER 91302	SCREEN BAR (SOUTH)	25	4	15.82643	MCIPS-REPAIR HOLE ON OIL IN ATTACHED ROBERT KABELIUS		CS	20150416	WIS	
		EASTER 91100	FACILITY/EASTERN AVENUE	25	4	16.81898	MCIPS-PUT LONG HANDLE ON H. JOHNSON 6-4972		WJ	20150229	WIS	
		JF 920018	BIBBLER (HETWELL)	25	30	16.81895	MCIPS- INSTALL ANCHOR OR NEED FOR AIR COMPRESSOR		WJ	20150421	WIS	
		JF 926731	DUMPFSTER-JE2001(GREEN RT)	25	4	13.80661	FDV REPLACE WHEELS (2)	steelperc 64972	CS	20150421	WIS	
		JF 924002	DRIVE #2 BAR SCREEN	25	4	16.81721	MCIPS-FABRICATE NEW SHUFT	RESOLVED BY H.HOOKS 69733	WJ	20150421	WIS	

Total \* MCIPB \* Work Orders: COUNT 11

BROLYN 952801	TANK, HYDRO-PNEUMATIC SEAL	25	4	14.80666	MCIPS/ELCPS-CHECK SYSTEM	pressure, steelperc 64972	CS	20150421	WIS		
BROLYN 956101	GENERATOR, EMERGENCY SET	25	4	16.81719	MCIPS-SHUT DOWN ON OIL IN ATTACHED ROBERT KABELIUS		WJ	20150421	WIS		
COLETT 949102	PUMP-STORM DRAIN(EAST)/WR	25	30	16.81326	MCIPS/CHECK GEAR BOX FOR (noisy noise) steelperc 64972		CS	20150421	WIS		
COLETT 949100	FACILITY-COAGULATE PUMP STR	25	4	14.82410	MCIPS/INSTALL TEMPERARY W to station	steelperc 64972	CS	20150421	WIS		
DUNDAL 941201	MOTOR, SEWAGE PUMP #1	25	2	16.81891	ELCPS/ MCIPS- REPLACE ROT STEELPERC 64972		WJ	20151224	WIS		
DUNDAL 941102	PUMP, SEWAGE #2	25	30	16.81345	MCIPS- REPAIR #2 PUMP MECH W/ W. JOHNSON		CS	20150421	WIS		
DUNDAL 945201	GENERATOR, EMERGENCY,	25	4	14.80610	MCIPS/ UNPLUG FOR AMT. P. steelperc 64972		CS	20150421	WIS		
DUNDAL 944401	STEAMER, VACUUM PUMP #1&2	25	4	14.81936	MCIPS/ REPLACE W/ GAUGES W. JOHNSON-steelperc 64972		WJ	20150421	WIS		
DUNDAL 941000	FACILITY, DUNDALK PUMPING	25	4	15.81635	MCIPS-PUMP OUT VALVE FOR E. JOHNSON W. JOHNSON 69738		WJ	20150421	WIS		
DUNDAL 941103	PUMP, SEWAGE #3	25	4	15.81885	MCIPS-REBUILD SPARE PUMP, 69738		WJ	20150421	WIS		
DUNDAL 941104	PUMP, SEWAGE #4	25	4	15.82040	MCIPS/CHECK #4 PUMP MECHAN LEAKING		WJ	20150601	WIS		
DUNDAL 946302	PUMP, SUPP #2	25	4	15.82632	MCIPS/ELCPS REPAIR #25 PUMP W. JOHNSON, 6-4972		WJ	20150610	WIS		
DUNDAL 941000	FACILITY, DUNDALK PUMPING	25	4	16.81333	MCIPS REPAIR WATER LINE 0 to 11 IN. BY H.HOOKS 69733		WJ	20151214	WIS		
DUNDAL 941102	PUMP, SEWAGE #2	25	4	16.81886	MCIPS-STRIP-WIRE REPAIR T. JOHNSON W. JOHNSON 69723		WJ	20150224	WIS		
EASTER 911000	FACILITY, EASTERN AVENUE	25	2	16.81900	MCIPS/CALL IN-REPAIR BOOK 1166		WJ	20160220	WIS		
EASTER 911101	SCREEN BAR (NORTH)	25	4	16.81887	ELCPS/ MCIPS-REPAIR BAR IN STORM		WJ	20160220	WIS		
EASTER 918023	POWER RIDING GRAVELLY (IN S	25	4	16.81116	MCIPS/ CHECK OIL IN BEAST STEELPERC 64972		CS	20141125	WIS		
EASTER 918026	FLOW, SINK #1	25	4	15.81032	MCIPS/ ASSIST OPERATIONS, STEELPERC 64972		CS	20141125	WIS		
EASTER 911103	PUMP, SEWAGE #3	25	4	15.82659	MCIPS-CHECK #3PUMP (LEAK) ATTENTION ROBERT DEBELIUS		WJ	20150629	WIS		
EASTER 913102	SCREEN BAR (SOUTH)	25	4	16.81701	MCIPS/ WINTERIZE TRACTOR STEELPERC 64972		CS	20151112	WIS		
EASTER 912602	PUMP, SEAL WATER #2	25	4	16.81708	MCIPS-REMOVE HARD HOLDS bar screen		WJ	20150011	WIS		
EASTER 913101	SCREEN BAR (NORTH)	25	4	16.81708	MCIPS-CHECK WATER SEAL PU lot of noise		WJ	20160220	WIS		
JF 922304	PUMP #4 SEAL WATER W/TOTO	25	4	16.81138	MCIPS-REPAIR SCREEN, BAR screen		WJ	20151129	WIS		
JF 922101	SCREEN BAR #1 (FRONT CLEAN	25	4	16.81700	MCIPS-CHECK WATER SEALING WATER IS NOT GETTING TO THE MAIN PUMP PACKING		WJ	20160111	WIS		
QUAD 922302	OPERATOR #2 PUMP COME VAL	25	4	14.82430	MCIPS/ELCPS-REPAIR #1BAR BOX CASE about 4 from motor		CS	20140423	WIS		
QUAD 930102	FADAR-MET WELL LEVEL	25	4	14.82438	MCIPS/ASSIST PUMPS WITH K pipe in well steelperc 64972		CS	20140423	WIS		
QUAD 932102	VALVE #2 PUMP COME/01/SCHE	25	4	16.81712	MCIPS/ REPAIR LEAKING VAL STEELPERC 64972		CS	20160114	WIS		
STRON 931134	PUMP, RAW SEWAGE #4 W/TOTO	25	4	15.82017	MCIPS/SUSPECT PUMP (PUMP) steelperc 64972		CS	20150416	WIS		
STRON 991135	PUMP-MET HELL SUMP -OUTSI	25	4	16.80661	ELCPS/ MCIPS- REPAIR PUMP (Chipped) steelperc 64972		CS	20150421	WIS		
HSTPT 971000	FACILITY, HESTPORT	25	4	16.81656	MCIPS-REPAIR BLEED OFF BY H.HOOKS 69733		WJ	20160111	WIS		

Total \* MCIPB \* Work Orders: COUNT 31

EASTER 911106	PUMP-STANDBY SEWAGE	25	4	13.80655	MCIPS - REPAIR OIL PAN (L) steelperc 64972		CS	20150316	WIS		
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Total \* MECH \* Work Orders: COUNT 1

Co. No.	Area	Loc.	Machine Number	Machine Description	WO Sys	Prty Code	WO Number	Short Problem Description	Full Problem Description	Req. Co. #	By	WO Date	Wkt. Srt	
													Typ. dur.	
													CLS	
11	PUMPING ST	CARDL	985701	CONTROLLER, PUMP, #1	Z5	4	15-81494	2	OPSEK/INVSYS-INVESTIGATE CONT warning in auto-stielperc 64972	CS	OPSEK	20120303	463	
		DUNDAL	948103	CONTROL VFD #2 SERVICE PUM	Z5	3D	15-82329	3	OPSEK/INVSYS/ELCPS-REPAIR GROUND FAULT-stielperc 64972	CS	OPSEK	20120303	461	
		DUNDAL	948105	CONTROL VFD #4 SERVICE PUM	Z5	3D	16-80474	2	OPSEK- INVESTIGATE DRIVE ( Our Current) stielperc 64972	CS	CS	20151005	461	
		EASTER	918809	SYSTEM, SCADA	Z5	2B	16-80878	1	OPSEK/ RESTORE COMMUNICAT system operations booth stielperc 64972	CS	CS	20151006	465	
		JF	528003	VFD #2 SERVICE PUMP/CPX900	Z5	2	16-81873	1	OPSEK-#2 VFD TRIPS OUT (1 stielperc 64972	CS	OPSEK	20160301	461	
		JF	528005	VFD #4 SERVICE PUMP/CPX900	Z5	3D	15-82624	1	OPSEK- INVESTIGATE/REPAIR 4BY-Hass) stielperc 64972	CS	OPSEK	20120303	461	
		JF	528002	VFD #1 SERVICE PUMP/CPX900	Z5	3D	16-80877	1	OPSEK-#VFD IS TRIPPING 0 FAULT	CS	OPSEK	20151006	465	
		JF	521000	FACILITY, JONES FALLS	Z5	4	11-81290	3	OPSEK-RELLOCATE ALARM HORN ADDED; OPSEK ON 01/2016	CS	OPSEK	20160120	462	
		JF	528002	VFD #1 SERVICE PUMP/CPX900	Z5	4	15-82262	1	OPSEK-REPAIR #VFD FAULT (over temp.)	CS	OPSEK	20150627	461	
		JF	928104	PANEL-STARION ALARM	Z5	4	16-81117	1	ELCPS/OPSEK- RELOCATE THE (caut heat from operating levels) stielperc 64972	CS	OPSEK	20161116	461	
Total * OPSEK * Work Orders:														
COUNT 10														
		BROOKN	951000	FACILITY,BROOKLYN PUMPING	Z5	4	TAD 13-80684	1	PENG-ROOF LEAKING	REQ BY C-STIEJLER	CS	CS	20120303	468
		COULT	948501	MOTOR CONTROL CENTER	Z5	4	BAZ 10-83537	1	PENG-INVESTIGATE ELECTRIC FROM mechanic pumping station may not be proper size for the		CS	CS	20150403	461
		DUNDAL	941000	FACILITY,DUNDALK PUMPING	Z5	3D	15-83603	1	PENG/OPSEK- INSTALL SUPP vent stielperc 64972		CS	CS	20160116	468
		DUNDAL	946101	CRANE,BRIDGE (15 TON)	Z5	3D	15-82645	1	ELCPS/PENG- MAKE REPAIRS TO (no) (in traction) (vent) stielperc 64972		CS	CS	20150617	462
		DUNDAL	941000	FACILITY,DUNDALK PUMPING	Z5	4	TAD 12-80686	1	PENG- INVESTIGATE ROOF VENT leaking stielperc 64972		CS	CS	20110831	465
		DUNDAL	941000	FACILITY,DUNDALK PUMPING	Z5	4	TAD 12-80969	1	PENG-ROOF LEAKS NEEDS REP register 1 station 6-9762		CS	CS	20120303	468
		EASTER	916000	BUILDING,EMER, GENERATOR	Z5	4	TAD 13-80683	1	PENG-ROOF LEAKING	REQ BY C-STIEJLER	CS	CS	20120303	468
		EASTER	915102	BOILER #2	Z5	3D	13-81592	1	P- DESTIGATE CAUSE OF FAW station, Sullivan 64972		CS	CS	20130110	461
		EASTER	915101	BOILER #1	Z5	3D	16-81102	2	PLUMPS-INSTALL NEW RELIEF CHARGES CORRODED AND LEAKING.		CS	CS	20151106	465
		EASTER	911000	FACILITY,EASTERN AVENUE	Z5	3D	16-81713	2	PENG-INSTALL NEW RELIEF SQUARE CORRODED AND LEAKING.		CS	CS	20160119	469
		EASTER	911000	FACILITY,EASTERN AVENUE	Z5	4	BAZ 12-82123	2	PENG-INVESTIGATE POSSIBLE A well small well mounted heater/charis 64972		CS	CS	20120303	462
		EASTER	911000	FACILITY,EASTERN AVENUE	Z5	4	TAD 12-82363	2	PENG- REPAIR CONCRETE PAD (over on triping) hazzard-see chris stielperc 64972		CS	CS	20120303	462
		FTTC	902000	FACILITY,FORT PHENNY	Z5	4	TAD 12-83030	1	PENG-INVESTIGATE ROOF DR see chris 64972		CS	CS	20120425	461
		HILLAND	961000	FACILITY,HIGHLANDTOWN	Z5	4	BAZ 12-80574	1	PENG-INVESTIGATE 110 VOLT UPSEARIE (OPER J BAROCK) 64972		CS	CS	20110631	461
		JF	921000	FACILITY,JONES FALLS	Z5	4	BAZ 12-81625	1	PENG- INVESTIGATE 110 VOLT UPSEARIE (OPER J BAROCK) 64972		CS	CS	20110630	461
		LOCPD	985000	FACILITY,LOUIS POINT	Z5	4	TAD 12-88625	1	PENG-HAVE PHONE LINE AND installed in upstairs vfd room stielperc 64972		CS	CS	20100808	444
		MCS1	977801	SWITCH,TRANSFER	Z5	4	14-81285	1	PENG- RE-INSTALL BEAM OFF stielperc 64972		TAD	TAD	20120619	467
		PLTAD	985516	TEST BACKUPON PREVENTERS	Z5	4	TG 10-83588	1	PENG-TEST & CERTIFY BACK IN ALL PUMPING STATIONS.		TG	TG	20100812	469
		PLTAD	999999	PRESSURE VESSEL INSPECTION	Z5	4	TG 12-81452	1	PENG-PERFORM PRESSURE VES IN ALL PUMPING STATIONS AND REPORT		TG	TG	20111103	469
		PLTAD	999815	ANNUAL CRANE INSPECTION	Z5	4	14-82462	1	PENG-PERFORM CRANE SAFETY IN ALL PUMPING STATIONS AND REPORT		TG	TG	20140908	469
		STRON	991126	FACILITY,STONEY RUN P.S	Z5	4	TAD 12-81199	1	PENG-INVESTIGATE PNEUMATIC pump failure (operational problems or pump design) request dls		TG	TG	20110105	461
		STRON	991126	FACILITY,STONEY RUN P.S	Z5	4	13-81600	1	PENG-INVESTIGATE PUMP CAN well design problem stielperc 64972		CS	CS	20130115	461
		461PT	971000	FACILITY,HESTPORT	Z5	4	PKR 13-80727	2	PENG-INVESTIGATE INSTALL stielperc 64972		CS	CS	20121129	461
Total * PENG * Work Orders:														
COUNT 25														
		CLINT	991121	FACILITY,CLINTON STA.#1	Z5	3D	15-80606	3	ELCPS/PLUMPS/STORM-NO PONE RED BY J. BAROCK 6-9768		CS	CS	20150801	464
Total * STORM * Work Orders:														
COUNT 1														
Order * PUMPING ST * Work Orders:														
COUNT 339														

03/12/20 10:10:25

Costs by location report  
detailed  
from 03/01/20 to 03/31/20

to 03/31/20  
as of 03/31/20  
state 10.8.20

7425 77

Req. Code 100 445346  
by 1000 200400  
1000 1000

Post position  
description

Post position  
description

Unit Code 11 \* level 20000  
UNIT 30

Package description

Loc. State description

Gr. Serv Loc. State description

Continued Working Report  
 DT's & MD'S  
 Back River, Pk. & Plaza  
 In: 10-10-16  
 as of 02/01/16  
 Status: 10 & 25

Co. No.	Area	Machine No.	Machine Description	HD	Sts	Prty Code	W/O Code	Plnc Number	Short problem Description	Full Problem Description	Req. No.	Issue Date	Wk. Svc. Type	Cl. S.
90	MISC	PETER 980013	FACILITY, WASHINGTON ME	25	4			14-95014	BLOG-PAINT-PAINT BLOG W/RT 100 BY R BARTON JR		R63	2010610	428	
		PETER 980014	FACILITY, FAULKNER METERING	25	4			12-95012	BLOG-BUILD STEPS FOR START REQ BY R BARTON JR	PER AMUSE	R63	2010615	460	
		PETER 980013	FACILITY, WASHINGTON ME	25	4			12-95014	BLOG-PAINT-PAINT METERING REQ BY R BARTON JR		R63	2010613	428	
		PETER 980007	FACILITY, BOSTON WFE. STA.	25	4			15-95013	BLOG-PAINT-PAINT BOX AT S SERO BY R BARTON JR		R63	2010729	428	
		PETER 980005	FACILITY, GARDEN DRIVE ST	25	4			15-95014	BLOG-PAINT-PAINT BOX AT SERO BY R BARTON JR		R63	2010729	428	
		PETER 980004	FACILITY, LONG PLACE STA.	25	4			15-95015	BLOG-PAINT-PAINT BOX AT SERO BY R BARTON JR		R63	2010729	428	
		PETER 980014	FACILITY, FAULKNER METERING	25	4			15-95016	BLOG-PAINT-PAINT BOX AT SERO BY R BARTON JR		R63	2010729	428	
		PETER 980016	FACILITY, POWERSHILL METER	25	4			15-95017	BLOG-PAINT-PAINT BOX AT SERO BY R BARTON JR		R63	2010729	428	
		PETER 980011	FACILITY, PARNELL DRIVE	25	4			15-95018	BLOG-PAINT-PAINT BOX AT SERO BY R BARTON JR		R63	2010729	428	
		PETER 980009	FACILITY, HERRING RUN STA.	25	4			15-95019	BLOG-PAINT-PAINT BOX AT SERO BY R BARTON JR		R63	2010729	428	
		MUNBLD 952300	MUNICIPAL BUILDING	25	4			14-95024	BLOGS-TO PAINT OFFICES	on job at municipal bldg. req by c.carter ex per letter to a	R63	2010729	428	
		PARKITE 952400	PARK TERMINAL (UTILITIES)	25	4			14-95021	ELEC-2404 INSTALL PANEL & CIRCUITS FOR COMPUTERS-COFFEEMAKER AND OTHER EQUIPMENT		R63	2010729	428	
		POLCON 959000	FACILITY, POLLUTION CONT.	25	30			16-95012	BLOG-REPAIR 5 PANELS OF FUSE FROM STOREHOUSE TO OUR STORAGE BUILDING OVER BEHIND		R63	2010827	428	
		POLCON 959000	FACILITY, POLLUTION CONT.	25	30			16-95024	BLOG-SINK LEAKING ONTO FL. There is a maintenance problem/health issue with the men's		R63	2010827	428	
		POLCON 959000	FACILITY, POLLUTION CONT.	25	30			16-95029	BLOG-STRIP AND WAX FLOOR. It has been at least several months and there is something		R63	2010827	428	
		POLCON 959000	FACILITY, POLLUTION CONT.	25	4			13-95030	BLOG - INSTALL SUPA DISK REHEATER: P. 801LE 6-9595.		R63	2010729	415	
		POLCON 959000	FACILITY, POLLUTION CONT.	25	4			14-95036	BLOG - REW LOADING LOCK N3 / ALSO MAKING A LOUD SQUEALING SOUND		R63	2010829	428	
		POLCON 959000	FACILITY, POLLUTION CONT.	25	4			16-95013	BLOG-100 & 100P CARTRIDGE TO THE electronics recycling area at maintenance.		R63	2010829	428	
		POLCON 959000	FACILITY, POLLUTION CONT.	25	4			16-95030	BLOG-CUPPAGES IN 810 RM continuously.		R63	2010829	428	
Total * BLDG * Work Orders:														
COUNT 19														
Total * BRAP * Work Orders:														
COUNT 1														
Total * ELCPS * Work Orders:														
COUNT 1														
		CITWD 959900	MISC, CITY WIDE PROJECTS	25	4			12-95032	3 DRMF-PRODICE DRAININGS FOR ADDED BY J.BRYAN		R63	2010829	428	
		PETER 980004	FACILITY, LONG PLACE STA.	25	4			12-95039	ELECTCS-WO POWER TO METER	REQ BY R BARTON JR	R63	2010829	428	
Total * ELEC * Work Orders:														
COUNT 11														
		ASBUR 952200	ASHBURTON FILTRATION FLT.	25	30			14-95062	ELEC-ASSIST KEN HUBBARD'S REPAIRING ROAD LIGHTS AT 3001 World Pack Drive phone #		R63	2010829	428	
		CITWD 959900	MISC, CITY WIDE PROJECTS	25	2			14-95100	2 FLOW/VELOC/EXDS/BLDG/STORY METERS ON OVERTIME.		R63	2010829	428	
		CITWD 959002	FACILITY, GRAPHICS & SIGNS	25	3			16-95054	1 FLOW/BLD- INSTALL EXHAUS AND EXHAUST FANS PER DRAWINGS.		R63	2010829	428	
		ISPTEN 982000	FACILITY, ISL-PT. BMT HNS	25	4			13-95052	ELEC-PURCHASE AND INSTALL square D terminal breakers to separate and install 2 new earth		R63	2010619	428	
		ISPTEN 982002	HEATER, HOT WATER	25	4			13-95154	ELEC-PURCHASE AND INSTALL ter for building. Heater that was bought was wrong.		R63	2010619	428	
		PARKITE 952400	PARK TERMINAL (UTILITIES)	25	4			14-95121	2 ELEC-BLUG INSTALL PANEL & CIRCUITS FOR COMPUTERS-COFFEEMAKER AND OTHER EQUIPMENT		R63	2010630	422	
		PARKITE 952400	PARK TERMINAL (UTILITIES)	25	4			14-95130	ELEC-POBISTAL SUMP PUMP T. Resistor and needs to be replaced		R63	2010630	422	
		POLCON 959000	FACILITY, POLLUTION CONT.	25	4			14-95086	ELEC - ECTS, 6-9598 & 969 HEATING		R63	2010617	415	
		WASE 990001	WAREHOUSE #5	25	30			15-95129	ELEC-LINE DOWN	Jeff Jones from Archer Westcott just called me.	R63	2010827	428	
		WASE 990001	WAREHOUSE #5	25	4			16-95033	ELEC-ORDER 4 NEW BREAKERS: HEATERS, FOR PANEL IN GRAPHIC ARTS BLDG.		R63	2010829	428	
		WASE 990001	WAREHOUSE #5	25	4			16-95062	ELEC-RUN HIGH CONDUIT AND BREAKERS FOR PORTABLE HEATERS		R63	2010829	428	
Total * ELEC * Work Orders:														
COUNT 11														
		PETER 980012	FACILITY, FREDRICK RD. METER	25	4			15-95020	GEOS-HBD- CLEAN FLUME AT	REQ BY R BARTON JR	R63	2010829	428	

03/01/16 08:19:29

Combined Backlog Report  
CITY'S & TOWNS  
Back River, PS & Misc.

ID: -> BACKLOG  
as of 03/01/16  
Status: 10 & 25

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Co. No.	Area	Machine No.	Machine Description	HD Svs	Plnt Ppty Code	Work Order Number	Start problem Description	Full Problem Description	Req. By	Craft Code	Issue Date	Work Sht Typ	Clas
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Total \* GDS \* Work Orders:  
COUNT 1

80	MISC	990001	CONDITIMBERLAKE #1 (BOAT)	25	3D	16.95031	HA-HUNT IGCHTE	REQ BY ZACH ATTENTION BRIAN	ZCH HA	20151123	419		
		990001	WAREHOUSE #5	25	4	14.95082	HA-NO HEAT	SEE R. HENDERSON	RH	20140113	419		

Total \* HA \* Work Orders:  
COUNT 2

		990002	FACILITY-ROWLEY'S LAKE	25	3	16.95095	MCWP-REPAIR AND SECURE A	RED. T. SMITH 6-9733 HATCH COVERS	THS MCWPB	20150217	415		
		990002	FACILITY GRAPES & STONS	25	3	16.95054	2 MCWP/REI-INSTALL, EXHAUS	AND EXHAUST FANS PER DRAWINGS.	JOB	20160126	409		
		999900	MISC. CITY WIDE PROJECTS	25	4	JOB 12.95201	1 MCWP-INVESTIGATE FLOOD	D AT LOCH BARNEN DMT.	JOB	20120515	451		
		1577BH	992000 FACILITY, ISL. PT-BOAT	25	3D	16.95053	1 MCWP-REPAIR LEAKING WATE	REQ BY T. SMITH PER ANDRE*JOHNSON 6-9700	THS	20160126	418		

Total \* MCWPB \* Work Orders:  
COUNT 4

		999900	MISC. CITY WIDE PROJECTS	25	4	MEA 12.95082	2 PENC/MCWP-FAS AND INSTAL	STORM WATER MAINTENANCE. LOCATION 1601 WEST BALTO. ST.	JOB PENC	20111025	481		
		999900	MISC. CITY WIDE PROJECTS	25	4	JOB 12.95201	2 PENC-INVESTIGATE FLOOD	DO AT LOCH BARNEN DMT.	JOB	20110225	451		

Total \* PENC \* Work Orders:  
COUNT 2

		999900	MISC. CITY WIDE PROJECTS	25	2	15.95112	4 PR-ASSIST WATER DEPT. HEAT	REQ BY H. KELLEY PER LMA	MLK PM	20150313	482		
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Total \* PM \* Work Orders:  
COUNT 1

		999900	MISC. CITY WIDE PROJECTS	25	2	14.95100	5 MCWP/ELEC/GDS/BUDG/STORM	METERS ON OVERTIME.	JOB STORM	20140307	469		
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Total \* STORM \* Work Orders:  
COUNT 1

Area \* MISC \* Work Orders:  
COUNT 43

Total Co. \* 80 \* Work Orders:  
COUNT 43





# **APPENDIX 5**

## **SUMMARY OF REPORTED OVERFLOWS**



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**SSO No. 67**

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<u>Date</u>	<u>Surcharge Depth (in)**</u>	<u>Rainfall (in)</u>
2/3/2016	Flow Meter in Place	0.58
2/16/2016	Flow Meter in Place	1.13
2/24/2016 – 2/25/2016	Flow Meter in Place	1.30

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**SSO No. 72**

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<u>Date</u>	<u>Surcharge Depth (in)**</u>	<u>Rainfall (in)</u>
12/1/2015	Flow Meter in Place	0.92
12/23/2015	Flow Meter in Place	0.92
12/25/2015	Flow Meter in Place	1.06
12/26/2015	Flow Meter in Place	0.02
1/10/2016	Flow Meter in Place	0.89
2/3/2016	Flow Meter in Place	0.58
2/4/2016	Flow Meter in Place	0.04
2/16/2016	Flow Meter in Place	1.13
2/24/2016-2/25/2016	Flow Meter in Place	1.65

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**SSO No. 132**

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Date                      Surcharge Depth (in)\*\*                      Rainfall (in)

None Reported this Quarter

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**SSO No. 134**

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Date                      Surcharge Depth (in)\*\*                      Rainfall (in)

None Reported this Quarter

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**SSO No. 135**

---

Date                      Surcharge Depth (in)\*\*                      Rainfall (in)

None Reported this Quarter

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**SSO No. 137**

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Date                      Surcharge Depth (in)\*\*                      Rainfall (in)

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Flow monitor removed on July 1, 2015 for construction

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**SSO No. 138**

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<u>Date</u>	<u>Surcharge Depth (in)**</u>	<u>Rainfall (in)</u>
2/24/2016	Flow Meter in Place	1.47

None Reported this Quarter

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**SSO No. 139**

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<u>Date</u>	<u>Surcharge Depth (in)**</u>	<u>Rainfall (in)</u>
12/1/2015	Flow Meter in Place	1.03
2/24/2016	Flow Meter in Place	1.47

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**SSO No. 154**

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<u>Date</u>	<u>Surcharge Depth (in)**</u>	<u>Rainfall (in)</u>
2/24/2016-2/25/2016	Flow Meter in Place	2.64

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Pumping Station Overflows

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<u>Pumping Station</u>	<u>Date</u>	<u>Volume Loss (gal)</u>	<u>Rainfall (in)</u>
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None Reported this Quarter

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Wastewater Treatment Plant Overflows

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<u>WWTP</u>	<u>Date</u>	<u>Volume Loss (gal)</u>	<u>Rainfall (in)</u>
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Patapsco		None Reported this Quarter	
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Back River		None Reported this Quarter	
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**City of Baltimore**  
**Un-Permitted Sanitary Sewer Overflows**  
**For Calendar Quarter Ending March 31, 2016**

Date	Estimated Volume (Gal)	Cause	Rain (in)	Receiving Waters	Location	Zip
1/1/2016	Evidence of Overflow	Rags, Roots, Grease	0	Argonne Run	3128 Weaver Ave	21214
1/1/2016	150	Rags, Grease, Trash, Sand, Gravel, Rocks	0	N/A	28 E Preston St	21202
1/2/2016	370	Rags, Grease	0	Jones Falls	700 W North Ave	21217
1/2/2016	Evidence of Overflow	Rags, Grease	0	N/A	803 Powers St	21211
1/4/2016	7,860	Rags, Roots, Grease, Trash, Sand, Gravel, Rocks	0	N/A	1901 Eagle Dr	21207
1/4/2016	325	Rags, Trash, Sand, Gravel, Rocks	0	N/A	3004 Frisby St	21218
1/6/2016	Evidence of Overflow	Rags, Grease, Trash, Sand, Gravel, Rocks	0	N/A	603 S Glover St	21224
1/6/2016	8,275	Rags, Roots, Trash, Sand, Gravel, Rocks	0	Dead Run	1901 Eagle Dr	21207
1/6/2016	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0	N/A	4213 Audrey Ave	21225
1/7/2016	1,390	Rags, Roots, Grease	0	Biddison Run	3912 Walnut Ave	21206
1/7/2016	Evidence of Overflow	Pipe Break	0	N/A	4102 Maine Ave	21207
1/8/2016	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0	N/A	428 E Preston St	21202
1/12/2016	885	Trash, Sand, Gravel, Rocks	0	N/A	4009 Walnut Ave	21206
1/12/2016	Evidence of Overflow	Roots	0	N/A	6006 Hillen Rd	21218
1/13/2016	265	Grease	0	N/A	3430 Park Heights Ave	21215
1/14/2016	Evidence of Overflow	Rags, Grease	0	N/A	Greenmount Ave and Exeter Ave	21218
1/15/2016	Evidence of Overflow	Pipe Break	0.16	N/A	2306 McCulloh St	21217
1/17/2016	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0.01	N/A	3107 Artaban Pl	21216
1/19/2016	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0	N/A	737 McCabe Ave	21212
1/19/2016	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0	N/A	2733 Rayner Ave	21216
1/20/2016	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0	N/A	1811 N Broadway	21213
1/20/2016	1,860	Pipe Break	0	Western Run	2311 Cross Country Blvd	21209
1/20/2016	150	Rags, Grease	0	Gwynns Falls	3100 Artaban Pl	21216
1/20/2016	2,101	Pipe Break	0	Western Run	5801 Greenspring Ave	21209
1/21/2016	Evidence of Overflow	Rags, Roots	0	N/A	618 Venable Ave	21218
1/21/2016	47	Rags, Grease	0	Chinquapin Run	1239 Glenwood Ave	21239
1/21/2016	990	Rags, Roots	0	Biddison Run	3501 Taylor Ave	21239
1/22/2016	Evidence of Overflow	Rags	0	N/A	1300 Parkman Ave	21230
1/27/2016	1,340	Rags, Grease	0	Jones Falls	Roland Heights Ave and Laplata Ave	21211
1/28/2016	Evidence of Overflow	Roots	0	N/A	2953 Greenmount Ave	21218
1/28/2016	652	Rags, Roots, Grease, Trash, Sand, Gravel, Rocks	0	Gwynns Falls	3525 Gelston Dr	21229
1/29/2016	Evidence of Overflow	Rags, Grease	0	N/A	2807 Elgin Ave	21216
2/2/2016	Evidence of Overflow	Rags, Grease	0	N/A	3400 Reisterstown Rd	21215
2/2/2016	185	Roots	0	N/A	3637 Greenmount Ave	21218
2/3/2016	Evidence of Overflow	Roots, Trash, Sand, Gravel, Rocks	0.61	N/A	1822 W Lexington St	21223
2/3/2016	880	Pipe Break	0.61	N/A	3221 Presstman St	21216
2/4/2016	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0.03	N/A	739 Springfield Ave	21212
2/4/2016	Evidence of Overflow	Rags, Grease, Trash, Sand, Gravel, Rocks	0.03	N/A	1700 N Charles St	21202
2/4/2016	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0.03	Maidens Choice Creek	4600 Parkton St	21229
2/5/2016	Evidence of Overflow	Rags, Roots	0.12	N/A	1227 N Bentalou St	21216
2/5/2016	1,320	Grease	0.12	N/A	S Highland Ave and Claremont St	21224



**City of Baltimore**  
**Un-Permitted Sanitary Sewer Overflows**  
**For Calendar Quarter Ending March 31, 2016**

Date	Estimated Volume (Gal)	Cause	Rain (in)	Receiving Waters	Location	Zip
2/6/2016	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0	N/A	320 E 33rd St	21218
2/6/2016	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0	N/A	3626 Greenmount Ave	21218
2/7/2016	Evidence of Overflow	Grease	0	N/A	827 Martin Luther King Blvd	21201
2/8/2016	Evidence of Overflow	Rags, Roots	0.05	N/A	4501 Penhurst Ave	21215
2/9/2016	Evidence of Overflow	Rags	0.29	N/A	5913 Eurith Ave	21206
2/10/2016	Evidence of Overflow	Rags, Roots, Trash, Sand, Gravel, Rocks	0	N/A	1815 Bollon St	21217
2/10/2016	302	Roots, Trash, Sand, Gravel, Rocks	0	N/A	2805 Bookert Dr	21225
2/10/2016	2,742	Pipe Break	0	Herring Run	2805 Forest View Ave	21214
2/11/2016	Evidence of Overflow	Rags, Grease, Trash, Sand, Gravel, Rocks	0	N/A	3026 E Fayette St	21224
2/11/2016	Evidence of Overflow	Rags, Roots	0	N/A	5400 Loch Raven Blvd	21239
2/11/2016	Evidence of Overflow	Rags, Grease	0	N/A	Hillsdale Rd and Liberty Heights Ave	21207
2/12/2016	Evidence of Overflow	Other	0	N/A	1400 Lowman St	21230
2/12/2016	1,995	Trash, Sand, Gravel, Rocks, Pipe Break	0	Gwynns Falls	2760 Wilkens Ave	21223
2/16/2016	1,375	Rags, Rain, Trash, Sand, Gravel, Rocks	0.77	Jones Falls	1800 Falls Rd	21201
2/16/2016	1,960	Rags, Grease	0.77	N/A	1900 S Charles St	21230
2/16/2016	230	Rags, Trash, Sand, Gravel, Rocks	0.77	Herring Run	2835 E Federal St	21213
2/17/2016	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0	N/A	515 E 38th St	21218
2/17/2016	Evidence of Overflow	Rags, Roots, Trash, Sand, Gravel, Rocks	0	N/A	532 Random Rd	21229
2/17/2016	Evidence of Overflow	Rags, Roots	0	N/A	1438 Cedarcroft Rd	21239
2/18/2016	Evidence of Overflow	Rags, Grease	0	N/A	247 N Bruce St	21223
2/18/2016	Evidence of Overflow	Roots, Trash, Sand, Gravel, Rocks	0	N/A	1315 Bayard St	21230
2/19/2016	250	Rags, Roots	0	N/A	612 Wyndhurst Ave	21210
2/19/2016	Evidence of Overflow	Rags, Roots	0	N/A	709 Linnard St	21229
2/19/2016	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0	N/A	2435 Foster Ave	21224
2/20/2016	Evidence of Overflow	Rags, Grease	0	N/A	15 W North Ave	21202
2/20/2016	Evidence of Overflow	Rags	0	N/A	2313 Hamilton Ave	21214
2/20/2016	Evidence of Overflow	Rags, Roots	0	N/A	4524 Keswick Rd	21210
2/21/2016	Evidence of Overflow	Rags	0.01	N/A	1714 Barclay St	21202
2/22/2016	Evidence of Overflow	Roots, Grease, Trash, Sand, Gravel, Rocks	0.01	N/A	737 McCabe Ave	21212
2/22/2016	6,035	Rags, Roots, Grease	0.01	N/A	905 Nottingham Rd	21229
2/22/2016	Evidence of Overflow	Rags, Roots	0.01	N/A	3603 Windsor Mill Rd	21216
2/24/2016	1,105	Rags	2.3	N/A	234 N Milton Ave	21224
2/24/2016	310	Roots	2.3	N/A	301 Edgevale Rd	21210
2/24/2016	Evidence of Overflow	Rags, Roots	2.3	N/A	600 S Hanover St	21230
2/24/2016	50	Roots	2.3	N/A	1211 W Northern Pkwy	21210
2/24/2016	60	Rags	2.3	N/A	4409 St. Georges Ave	21212
2/24/2016	114,100	Rain	2.3	Inner Harbor	1731 E Chase St	21213
2/24/2016	36,150	Rain	2.3	Jones Falls	1000 N Durham St	21205
2/24/2016	Evidence of Overflow	Rain	2.3	N/A	Armstead Way and Horners Ln	21205
2/25/2016	Evidence of Overflow	Roots, Grease	0.04	N/A	3616 Roland Ave	21211
2/27/2016	846	Rags, Trash, Sand, Gravel, Rocks	0	N/A	S Warwick Ave and Frederick Ave	21223



**City of Baltimore**  
**Un-Permitted Sanitary Sewer Overflows**  
**For Calendar Quarter Ending March 31, 2016**

Date	Estimated Volume (Gal)	Cause	Rain (in)	Receiving Waters	Location	Zip
2/27/2016	Evidence of Overflow	Grease	0	N/A	1319 W Lombard St	21223
2/29/2016	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0	N/A	247 N Bruce St	21223
2/29/2016	120	Rags, Roots, Trash, Sand, Gravel, Rocks	0	Herring Run	4801 Lorelly Ave	21206
3/1/2016	115	Rags, Grease, Trash, Sand, Gravel, Rocks	0	Gwynns Falls	1600 Bruce Ct	21217
3/1/2016	Evidence of Overflow	Rags	0	N/A	2400 Windsor Ave	21217
3/2/2016	Evidence of Overflow	Rags, Roots	0	N/A	1325 W Saratoga St	21223
3/3/2016	12	Pipe Break	0	Chinquapin Run	1239 Glenwood Ave	21239
3/3/2016	Evidence of Overflow	Rags, Grease, Trash, Sand, Gravel, Rocks	0	N/A	2806 Roselawn Ave	21214
3/3/2016	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0	N/A	4210 N Charles St	21218
3/5/2016	Evidence of Overflow	Rags, Grease	0	N/A	2628 E Baltimore St	21224
3/6/2016	Evidence of Overflow	Rags, Grease, Trash, Sand, Gravel, Rocks	0	N/A	22 N Ellwood Ave	21224
3/6/2016	Evidence of Overflow	Trash, Sand, Gravel, Rocks	0	N/A	3738 Manchester St	21215
3/7/2016	114	Rags, Trash, Sand, Gravel, Rocks	0	N/A	2116 Presbury St	21217
3/7/2016	1,590	Rags, Grease	0	N/A	3700 E Baltimore	21224
3/7/2016	3,120	Rags, Grease	0	N/A	3205 Fairfield Rd	21226
3/8/2016	Evidence of Overflow	Rags, Roots	0	N/A	828 Newington Ave	21217
3/8/2016	275	Grease	0	N/A	6228 Laurelton Ave	21214
3/9/2016	Evidence of Overflow	Roots, Trash, Sand, Gravel, Rocks	0	N/A	5624 Mattfeldt Ave	21209
3/9/2016	219	Rags	0	N/A	2300 Reisterstown Rd	21215
3/9/2016	Evidence of Overflow	Pipe Break	0	N/A	1925 W Saratoga St	21223
3/10/2016	Evidence of Overflow	Rags	0	N/A	1701 N Caroline St	21213
3/10/2016	482	Rags, Roots, Grease, Trash, Sand, Gravel, Rocks	0	N/A	2500 Oswego Ave	21215
3/10/2016	1,200	Rags, Grease	0	N/A	3304 W North Ave	21216
3/12/2016	65	Rags, Roots	0	N/A	319 E 22nd St	21218
3/14/2016	27	Roots, Trash, Sand, Gravel, Rocks	0.59	N/A	2137 N Smallwood St	21217
3/14/2016	Evidence of Overflow	Rags, Roots, Grease	0.59	N/A	3834 Lewin Ave	21215
3/14/2016	5,840	Rags, Roots, Trash, Sand, Gravel, Rocks	0.59	Gwynns Falls	1011 Hilton St	21229
3/15/2016	240	Infiltration/Inflow, Pipe Break	0	Stony Run	5009 Blythewood Rd	21210
3/15/2016	1,150	Rags, Grease, Trash, Sand, Gravel, Rocks	0	Murky gray water	1820 Spence St	21230
3/17/2016	Evidence of Overflow	Pipe Break	0	N/A	3109 Juneau Pl	21214
3/17/2016	Ongoing	Roots	0	Western Run	2311 Cross Country Blvd	21209
3/17/2016	Ongoing	Roots	0	Western Run	5810 Greenspring Ave	21202
3/18/2016	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks, Pipe Break	0	N/A	1450 Ridgely St	21230
3/20/2016	Evidence of Overflow	Roots, Trash, Sand, Gravel, Rocks	0	N/A	3324 Gwynns Falls Pkwy	21216
3/20/2016	Evidence of Overflow	Rags, Roots	0	N/A	265 W 31st St	21211
3/22/2016	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0	N/A	2307 E Fairmont Ave	21224
3/24/2016	Evidence of Overflow	Grease	0	N/A	1811 E 29th St	21218
3/24/2016	Evidence of Overflow	Roots	0	N/A	1814 N Bond St	21213
3/24/2016	Evidence of Overflow	Rags, Roots	0	N/A	4301 West Bay Ave	21226
3/24/2016	Evidence of Overflow	Rain, Trash, Sand, Gravel, Rocks	0	N/A	5001 Pulaski Hwy	21205
3/25/2016	Evidence of Overflow	Roots	0.01	N/A	810 Glen Allen Dr	21229
3/28/2016	Evidence of Overflow	Rags, Grease	0.47	N/A	2803 E Preston St	21213



**City of Baltimore**  
**Un-Permitted Sanitary Sewer Overflows**  
**For Calendar Quarter Ending March 31, 2016**

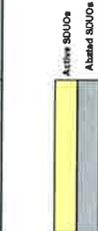
Date	Estimated Volume (Gal)	Cause	Rain (in)	Receiving Waters	Location	Zip
3/28/2016	1,160	Rags, Roots, Trash, Sand, Gravel, Rocks	0.47	N/A	4417 Findlay Rd	21206
3/29/2016	97	Trash, Sand, Gravel, Rocks	0	N/A	1740 E Lanvale St	21213
3/29/2016	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0	N/A	6307 Wallis Ave	21215
3/30/2016	Evidence of Overflow	Rags, Grease, Trash, Sand, Gravel, Rocks	0	N/A	245 N Monroe St	21223
3/30/2016	Ongoing	Pipe Break	0	Chinquapin Run	1501 Hartsdale Rd	21239
3/30/2016	220	Trash, Sand, Gravel, Rocks	0	N/A	1704 Joplin St	21224
3/30/2016	Evidence of Overflow	Roots, Grease	0	N/A	2506 Mosher St	21216
3/30/2016	Evidence of Overflow	Roots	0	N/A	2924 Mallview Rd	21230
3/30/2016	Evidence of Overflow	Rags, Trash, Sand, Gravel, Rocks	0	N/A	4403 Frederick Ave	21229
3/31/2016	975	Rags, Grease	0	N/A	2400 Harriett Ave	21230



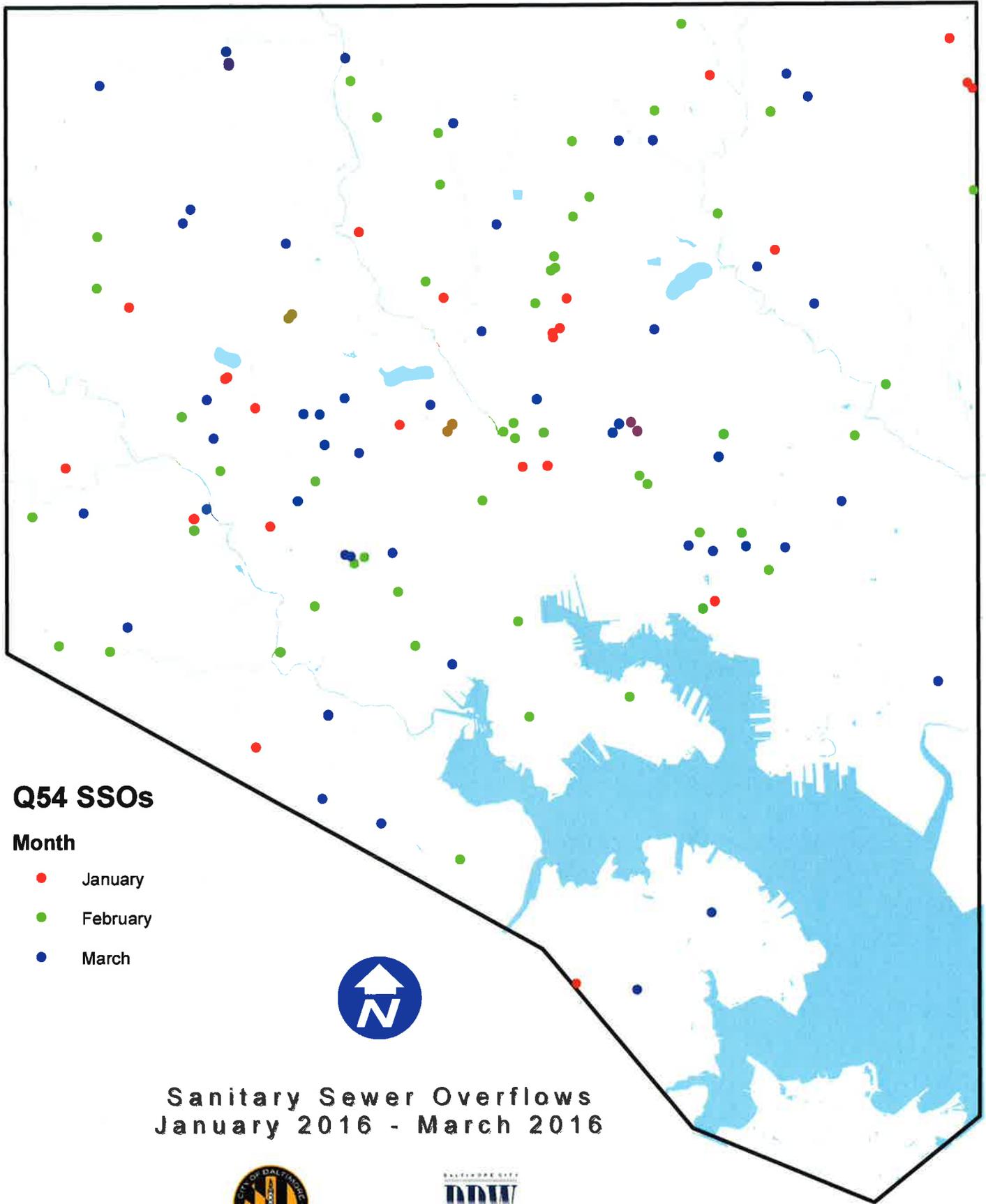


Updated through March 31, 2016

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
11	15JF05	7/30/2015	224 20th Street (Bike connection)	21218	Jones Falls	Not Resolved	Ongoing	20,988	Failure in the sanitary house connection	DHCO has been informed, Contractor has been assigned to perform the required work.
12	194801	12/4/2015	707 S. Pleasant St (Bike connection)	21202	Inner Harbor	Resolved: 1/5/2016	32	710	A bathroom found connected to stormwater. Property management was directed to repair the problem.	Repair has been done on 1/5/2016 which started the problem.
13	194801	12/14/2015	3053 Pleasant Ave (Bike connection)	21214	Bank View	Resolved: 02/19/2016	65	2994	Illegal connection to the Storm system. In the process of determining the scope of work.	New house lateral was installed. Problem is fixed.
14	194802	11/18/2015	114 E. Lexington St. The Latham Apartments (Bike connection)	21202	Inner Harbor	Not Resolved	Ongoing	245,714	10 stories building which was remodeled 2 years ago. Major plumbing mistakes have been done. Some property management is responsible for the oversight. Property management is responsible for the oversight. Multiple site visits have been done to check on building progress. CCTV and test pits have been performed to locate utilities and determine their condition.	General contractor and building owners have been working in resolving the problem. Sanitary line have been located. Reconditioning lateral is required. Building owners are aware of the problem and has allowed progress in solving the problem. IDDE engineer is overseeing their progress.
15	104701	1/7/2016	Over Hill & Crown Colony Blvd	21206	Inner Harbor	Resolved: 03/12/2016	14	1,796	Seepage in sanitary sanitary system by a joint. Joint has been cemented using the epoxy.	City crew performed one joint repair and sealed joint.
16	104702	1/7/2016	Over Hill & 2067 Greeningway Rd	21206	Inner Harbor	Resolved: 1/16/2016	12	637	Crack was found in the sanitary system. CCTV and the testing was performed to determine the leaking source.	One joint repair was performed which allowed the problem.



- SDUO Summary:
- Total SDUO Sites Documented: 113
  - Total SDUO Sites Resolved: 102 (90% completed)
  - Total Active SDUO Sites on Private Property: 3
  - Total SDUO Sites Unresolved: 11 (10% in progress)
  - New SDUO Sites Documented in the last Quarter: 2
  - Under the column entitled "Date of Resolution", if the note reads "Not Resolved" an end date of 03/31/2016 was used to determine the quantity of discharge up to that point.
  - All of the Estimated Quantities of Discharge listed in the above table are based on a start date of October 30, 2008 in the calendar year 2010, and an end date of November 12, 2010. The actual start date of the sewer discharge based on testing is listed in the Date of Occurrence.
  - (T) - Flow calculated utilizing TN concentration.
  - (A) - Flow Calculated utilizing Ammonia concentration.
  - (V) Total flow (by volume in Gallons)
- For all active sites, the City ultimately plans on calculating flows using TN - per guidelines of the approved protocol by EPA.
- For sites that have not yet been resolved, "Est. Quantity of Discharge (Gall)" is re-evaluated each quarter to reflect the steps of flow and any recent load information (flow, TN, NH3, NH4) that may have been collected for a given site.



**Q54 SSOs**

**Month**

- January
- February
- March



**Sanitary Sewer Overflows  
January 2016 - March 2016**



