City of Baltimore Sanitary Sewer Overflow Consent Decree

Civil Action No. JFM-02-1524

Calendar Quarterly Report No. 36 For Calendar Quarter ending September 30, 2011

> Submitted: October 28, 2011

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

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

Statement of Certification

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

Rudpiph S. Chow, P.E.

Bureau Hea



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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. <u>General Requirements:</u> During the calendar quarter ending September 30, 2011, 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.** <u>Construction Projects:</u> 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. 4 : Jones Falls Pumping Station Force Main/Pressure Sewer: On December 17, 2007 the City requested an extension to extend the project schedule for 60 calendar days resulting in a Practical Completion deadline of February 27, 2008. **The City of Baltimore extension request was granted in a letter dated April 15, 2010 by MDE. The City still awaits a response from EPA.** The resulting request was because the Contractor recently encountered unforeseen conditions in the form of extremely hard rock between the intersection of Falls Road and Roland Avenue. The contractor has used mechanical hammers, blasting and expansive slurries in an effort to excavate through this rock area. Practical Completion was achieved for this project on January 23, 2008.

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 29th 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.

Project No. 10: Greenmount Avenue Interceptor: This project was split into 2 phases:

- Phase I (SC-820) was advertised on December 16, 2005 in compliance with the advertising requirements of the Consent Decree. Practical completion of this project was complete as of May 4, 2007.
- Phase II (SC-833) of this project was advertised on December 23, 2005 in compliance with the advertising requirements of the Consent Decree, however only receiving one bid that was 50% over the estimate and was rejected. This project was re-advertised on March 17, 2006. Construction notice to proceed was granted to the contractor on August 14, 2006. In October 2004, the City sent a letter to MDE/EPA requesting that the project scope of work be changed from construction of the new pumping station to construction of a new gravity relief sewer. MDE and EPA subsequently approved this request in letters dated February 2, 2005 and December 21, 2004, respectively. The revised scope of work resulted in additional complexities, including major water and electrical utilities, tunnel conflicts, and railroad right of way issues. In addition, the scope includes microtunneling. The City sent a letter to MDE/EPA, dated July 7, 2006, requesting to extend the Practical Completion deadline by 180 days to



December 30, 2007. A response from MDE was received February 26, 2007 granting the requested extension. An extension letter was sent to MDE and EPA on December 7, 2007 requesting a 90 day extension for the Practical Completion deadline of March 28, 2008. This extension was approved and a subsequent extension for 90 days through June 27, 2008 was submitted, we await a response from MDE/EPA. Practical Completion was achieved for this project on May 27, 2008.

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 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 currently underway.

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 proceeding on schedule, and at this point, no problems are expected in meeting the milestone dates specified in Appendix D of the Consent Decree.

C. <u>Separate Sanitary Sewer Characterization Report:</u> This requirement has been completed.

D. Elimination of Combined Sewer Overflows:

Walbrook: This project has been completed.

Forest Park: During the calendar quarter ending June 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. The City is awaiting a response from MDE and EPA regarding this letter.

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

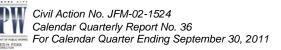
As of September 30, 2011, **3 flow meters are installed** as indicated in Table 8-1 specifically for Paragraph 8 Projects.

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

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

A summary of rainfall and flow monitoring data collected during July, August & September 2011, prepared by 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 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.** <u>The Sewershed Study and Plan Elements</u>: The Plan Elements in the Consent Decree are to be followed for each sewershed.
- C. <u>Collection System Inspections</u>: 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. <u>Infiltration and Inflow ("I/I") Evaluation:</u> Flow monitoring began on May 09, 2006 and as of September 30, 2011, the flow monitoring continues at 10 meter locations throughout the City also including long term monitoring program.
- E. <u>Long-Term Capacity/Peak Flow Management</u>: During the calendar quarter ending September 30, 2011, 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.

<u>Approval</u>

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.

The City was informed that a letter would be forthcoming from EPA that will provide direction to the City on how to proceed.

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 flows. 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 type 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. <u>Progress Reports</u>: Progress of work under Paragraph 9 is as reported herein.

Paragraph 10: Illegal Sewer Connections

A. <u>Illegal Private Connections</u>: During the calendar quarter ending September 30, 2011, 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 above 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, 806 W University Pkwy and 6309 Greenspring Ave.

6309 Greenspring Ave: It has been forwarded to HCD for further processing. A letter was sent to the property owner on August 08, 2011.



806 W University Pkwy: Upon further investigations, it was found that the area drain located on 806 W University Pkwy connects to an uncharted storm drain in the public right-of-way (ROW). This uncharted drain flows into a sanitary manhole. Therefore, 806 W University Pkwy has been determined not to be a private illegal connection, but a cross connection in the public ROW. The City is working expeditiously to address this newly found cross connection.

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. 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. A letter pertaining was sent to HCD on May 25, 2011, for further action. 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 rerouted 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 coordination is being done to permanently resolve the issue.

An illegal connection was confirmed on 3 Millbrook Road in May 2011 after carrying out more dye-testing. A letter was sent to the property owner on August 08, 2011.

- **B.** <u>Updated List of Illegal Connections:</u> Appendix 3 contains the updated list of 2 known illegal connections.
- C. <u>Illegal Connection Enforcement and Implementation Plan</u>: 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. <u>Privately-Owned Portion of a Customer Service Connection Lateral:</u> During the calendar quarter ending September 30, 2011, 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. <u>Pumping Station Rehabilitation and Repair</u>: As reported in Quarterly report No. 8, all pumping station rehabilitation projects are complete.
- B. <u>Pumping Station Inspection Procedures:</u> During the calendar quarter ending September 30, 2011, 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. <u>Pumping Station Remote Monitoring:</u> As of September 30, 2011, Baltimore continuously monitored pumping station data in accordance with Paragraph 11.C. of the Consent Decree. Alarm data was electronically archived.
- D. <u>Pumping Station Equipment Inventory</u>: As of September 30, 2011, 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. <u>Pumping Station Preventative Maintenance</u>: The MIMS system operated by Baltimore's Wastewater Facilities Division automatically generates work orders for preventive maintenance at Baltimore's eight pumping stations, including standard operating procedures and parts lists. During the calendar quarter ending September 30, 2011, 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. **During the calendar quarter ending September 30**,



2011, there was an overflow at the Dundalk Pumping Station on the force main. Temporary repairs to mitigate the overflow was performed with permanent repairs to follow.

- F. <u>Pumping Station Operation and Maintenance Manuals</u>: As of September 30, 2011, 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.** <u>Progress Reports</u>: Table 11-1 Summarizes the status of Baltimore's pumping station inspection and repair program during the calendar quarter ending September 30, 2011.

Pumping Station	Date of Inspection Completion	Date of Repair Completion	Repairs or Improvements	No. of Overflows
Eastern Avenue				None
Brooklyn	All Pumping			None
Dundalk	Stations			1
Jones Falls	inspected twice per day	See Appendix 4	See Appendix 4	None
Locust Point	throughout	See Appendix 4	See Appendix 4	None
Quad Avenue	reporting			None
McComas	period			None
Westport				None

Table 11-1: Pumping Station Inspection and Repair Program

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 Wallingford Software.
- **B.** <u>Model Elements:</u> The InfoWorks hydraulic modeling package is fully compliant with the requirements listed in Paragraph 12.B.i of the Consent Decree.
- **C.** <u>Model Project Approach Report:</u> 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. <u>Model Certification</u>: Baltimore will complete implementation of the Model for each sewershed on or before submission of the respective Sewershed Study and Plan required under Paragraph 9, and will certify the model for each sewershed at that time.
- F. <u>Progress Report:</u> The City continued development and enhancement of the model during this Quarterly period.

Paragraph 13: Collection System Operation and Maintenance

- **A.** During the calendar quarter ending September 30, 2011, 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. <u>Progress Reports:</u> 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 is due by October 31, 2011.



Paragraph 14: Information Management System Program

- **A.** During the calendar quarter ending September 30, 2011, Baltimore continued to develop an information management system that will facilitate engineering analysis, evaluation, operation and maintenance of the collection system.
- **B.** <u>Geographic Information System:</u> 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. <u>500 Scale Maps</u>: This requirement has been completed as reported in Quarterly Report No. 7.
- **D.** <u>Global Positioning System:</u> 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.** <u>Inventory of Collection System Components</u>: 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. <u>Update Inventory of Collection System Components</u>: 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. <u>Progress Reports:</u> Development of the Baltimore collection system inventory database continued throughout the calendar quarter ending September 30, 2011. 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.** <u>Progress Reports</u>: 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. <u>Emergency Response Plan (ERP)</u>: 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. <u>Yearly Review and Update:</u> During the Calendar Quarter ending September 30, 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.
- **E.** No portion of the Emergency Response Plan is in dispute at this time, and Baltimore has implemented the Plan in its entirety.

Paragraph 17: Reporting of Discharge Events and Recordkeeping

- **A.** During the calendar quarter ending September 30, 2011, Baltimore has complied with the reporting requirements for overflows from the wastewater collection system as established by Paragraph 17 of the Consent Decree, by NPDES Permit Numbers 21555 and 21601, by State Discharge Permit Numbers 89-DP-0581 and 93-DP-0580A, and by State and Federal regulations. Oral notifications of overflows were made to MDE within 24 hours that Baltimore first became aware of them, and written reports were forwarded within 5 days. A summary of reported overflows for the calendar quarter ending September 30, 2011 is provided in Appendix 5.
- **B.** During the calendar quarter ending September 30, 2011, Baltimore maintained a monitoring, sampling, analysis and reporting program to monitor water quality in Baltimore surface water. This program is administered by the Water Quality Management Section of the Environmental Services Division in accordance with the requirements of the NPDES referenced in item 17.A. above. Monitoring results are published annually in Baltimore's Water Quality Report.



- **C.** Records of all sanitary sewer overflows from Baltimore's collection system during the calendar quarter ending September 30, 2011, are being maintained in accordance with the requirements of Paragraph 17.C.
- **D.** Copies of all written reports prepared pursuant to Paragraph 17 will be maintained for a minimum of 5 years, as required by Paragraph 17.D.

C. DESCRIPTION OF ANTICIPATED PROBLEMS WITH SECTION VI REQUIREMENTS

Issues and concerns related to Paragraph 8 construction projects are reported above in the Paragraph 8 section of this Calendar Quarterly Report. As of September 30, 2011, there were no other anticipated problems with Section VI requirements to report.

D. DESCRIPTION OF SEP ACTIVITIES

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

The consultant agreement for the design of the Patapsco Wastewater Treatment Plant ENR project was approved by the City's Board of Estimates on December 21, 2005. As of the calendar quarter ending September 30, 2011, 100% design documents are currently under review for SC 845 - BAF and tertiary PS. SC 852 - Denitrification filters project was advertised on March 27, 2009 and the bids were rejected. This project was readvertised on October 13, 2009 and the successful bidder was awarded the Notice to Proceed (NTP) on December 29, 2009. This project is currently in the construction phase.

In addition, the City has selected the consultant for engineering services for SC 855 - ENR Modifications to the Existing Facilities at the Patapsco Wastewater Treatment Plant. As of the calendar quarter ending September 30, 2011, this contract was advertised on April 30, 2010, and bids were due on June 30, 2010. The construction notice-to-proceed (NTP) was issued on February 22, 2011. This project is currently in the construction phase.

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

As of the calendar quarter ending September 30, 2011 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



PROJ. ID NO.		DESCRIPTION AND REMARKS	DATE CONSTRUCTION CONTRACT ADVERTISED	DATE OF PRACTICAL COMPLETION	DATE SSO STRUCTURES ELIMINATED	SSO/CSO STRUCTURES ELIMINATED	STATUS
		UPPER	JONES FALLS SEWE	RSHED			
1	Western Run Interceptor (JPI Branch) Sanitary Contract Nos. 760 & 789	1. 1. Install approximately 880 linear feet of 30-inch parallel relief sewer from JPIB49 to JPI10 (along JPI90A- JPI94) (SC760) 2. Install approximately 9,400 linear feet of 21- to 24-inch parallel relief sewer from JPI20 to JPI65 (SC789) 3. Rehabilitate approximately 3,300 linear feet of existing 18-inch sewer from JPI07 to JPI20 (SC789)	June 30, 2002	June 30, 2004	June 30, 2005	Eliminates SSO nos. 21, 22, 23, 24 and 29	Complete
2	Upper Jones Falls Interceptor (North & South of Pepsi Cola Plant) Sanitary Contract Nos. 772 & 824	Rehabilitation of approximately 1,800 linear feet of existing 42- to 48-inch sewer located between JP01 (Mt. Washington Flume) and JP10, and approximately 6,570 linear feet of 48- to 60-inch sewer located between JP42 and the JP70. Replacement of approximately 1,900 linear feet of 48' sewer between JP10 and JP18, and approximately 1,550 linear feet of 60' sewer between JP70 and the Jones Falls Pumping Station (SC 772). 2. Replacement of approximately 7,080 linear feet of 48-inch sewer between JP18 and JP42 (SC 824). 3. Manhole and stream bank restoration.	June 30, 2004	December 27, 2006	12/30/2008 **		SC 772- Practical Completion was achieve on June 30, 2006. SC 824 - Construction Phase** Letter sent to MDE and EPA on 6-25-07 requesting an extension of the SSO elimination date to December 2008. MDE response letter approving extension was received on September 5, 2007. Eliminated SSO Nos 33 and 34 on 12/10 and 12/23/08, respectively.
3	New Jones Falls Force Main/Pressure Sewer - Lower Section and Valves improvements of existing force/pressure sewer Sanitary Contract Nos. SC779 & SC805	1. Replacement of approximately 1600 linear feet of force main/pressure sewer in Broadway from Oliver to East Chase Street connecting to High Level sewer (SC 779) 2. Improvements to gate valves, blow-off valves and air release valves for existing force main/pressure sewer (SC 805)	December 30, 2002	June 30, 2004	6/30/2005 - SEE STATUS	Contributes to elimination of SSO No. 5	SSO No. 5 cannot be eliminated until projects 4 and 5 are completed.
4	Jones Falls Pumping Station Force Main/Pressure Sewer Sanitary Contract No. 800	Upgrade existing force mains/pressure sewer to handle increased flows from rehabilitated/upgraded Jones Falls Pumping Station as well as additional flows from possible future pumping stations in Stony Run and along the JGA branch	June 30, 2005	12/29/2007**	May 2,2008	Contributes to elimination of SSO No. 5	Construction Phase** Letter sent to MDE and EPA on 6- 11-07 requesting additional 90 day practical completion extension to December 2007. MDE response letter approving additional extension received September 5, 2007. Letter sent to MDE and EPA on 12/17/07 requesting additional 60 day extension for pratical completion. Practical completion occurred on 1/23/08. Extension request approval granted by MDE in a letter dated April 15, 2010. Awaiting response from EPA.
5	Jones Falls Pumping Station Sanitary Contract No. 822	Upgrade existing pumping station to handle at least 50 mgd	December 30, 2005	12/29/2007**	June 30, 2008	Eliminates SSO No. 5	Construction Phase** Letter sent to MDE and EPA on 6- 11-07 requesting additional 90 day practical completion extension to December 2007. MDE response letter approving additional extension received September 5, 2007. Benificial Occupancy achieved 11/16/07.
6	Elimination of Collection System Overflows in Upper Jones Falls Sewershed Sanitary Contract No. 876	Assess hydraulics and design improvements to areas adjacent to overflows	Existing on-call contract	June 30, 2003	June 30, 2004	Eliminates SSO Nos. 20, 31, 32 and 36	Complete

APPENDIX 1 STATUS OF PARAGRAPH 8 CONSTRUCTION PROJECTS As of September 30, 2011

PROJ. ID NO.	PROJECT	DESCRIPTION AND REMARKS	DATE CONSTRUCTION CONTRACT ADVERTISED	DATE OF PRACTICAL COMPLETION	DATE SSO STRUCTURES ELIMINATED	SSO/CSO STRUCTURES ELIMINATED	STATUS		
		LOWER	JONES FALLS SEWE	RSHED					
7	Lower Jones Falls Interceptor (Upper Portion of Gravity Mainline) Sanitary Contract Nos. 773 & 818	I. Install approximately 7,900 linear feet of 18- to 24-inch parallel relief sewer from JG030 (near Jones Falls Pumping Station) to JG061 (at the connection of the JGE branch) (SC818) 2. Rehabilitation of approximately 16,500 linear feet of existing sever ranging from 12- to 50-inch (SC773) 3. Inverted sphon rehabilitation in Falls Road (manhole JG062) (SC773) 4. Stream bank restoration along Union Avenue near Meadow Mills at Woodberry	July 31, 2003	June 30, 2006	2/28/10***	Eliminates SSO No. 67	Post Construction Monitoring Phase. Monitoring period is extended at one site.		
8	Stony Run Interceptor and Pumping Station (JGF Branch)** Sanitary Contract No. 819, 838, 839 & 847	 Construct a 20 mgd capacity pumping station near Department of Public Works Solid Waste Site near the intersection of 29th Street and Sisson Street. Install approximately 1,200 linear feet of 24-inch force main from new pumping station to JFPS pressure sewer [length depends on location of pumping station] Parallel approximately 0,2000 linear feet of existing sewer from south of Coldspring Lane (JGF48) to the new pumping station with 18 to 36-inch sewer 	December 30, 2005 (SC-819 & 838) June 30, 2006 * (SC-839 & 847)	5/31/2009***	2/28/10***	Contributes to elimination of SSO No. 72; eliminates SSO No. 129	Practical completion was acheived on May 29, 2009 for the lower portion of the Stony Run interceptor (SC - 839). Non-CD portion of the project is nearly complete. Flow monitor installed at new Stony Run Pump Station on August 26, 2009. The City submitted an extension request to EPA and MDE for SSO 67 and 72 dated February 16, 2010 requesting an extension to February 28, 2011. The City further submitted another extension letter dated February 15, 2011 requesting an extension to June 29, 2019 to allow for adequate time for the City to complete the hydraulic restriction project at the BR-WWTP, which the City believes is a major contributor to not being able to eliminate these SSOs.		
9	Maryland Avenue Interceptor (JGB Branch) Sanitary Contract No. 799	Replace (upsize) approximately 4,400 linear feet of existing 12- to 24-inch sewer with new 21- to 36-inch sewer along branch interceptor, excluding proposed 901 N. Howard project area 2. Improvements to siphon/SSO No. 125 under I-83 (JGB18-JGB19) 3. Sewer replacement may require crossing the CLRL	December 30, 2003	July 14, 2005 *	June 30, 2006	Eliminates SSO Nos. 69 & 125	Complete		
10	Greenmount Avenue Interceptor (JGA Branch)* Sanitary Contract No. 820, 833	 Install approximately 7.325 linear feet of 36 to 42-inch parallel relief sewer from Bonaparte Avenue to the High level Interceptor on Eager Street. Line approximately 6,000 linear feet of 15- to 33-inch existing sewer. 	December 30, 2005 12/27/07 **		2/28/10***	Contributes to elimination of SSO No. 72	Construction Phase. SC 833-Extension letter was sent on 12-7-07 for a 90 day extension through March 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 achelved on May 27, 2008. Monitoring period began July 25, 2008.		
11	Elimination of Siphon Blowoff (Siphon No. 6 - south of North Avenue Bridge, west of RR tracks) Sanitary Contract No. 830	 Cleaning and inspection of siphon with repairs as necessary. Elimination of blow-off. 	On-call contract	June 30, 2004	June 30, 2005	Eliminates SSO No. 68	Complete		
* Appr	oved by MDE\EPA. ** Approv	ed by MDE, ***Approved by EPA							
		HERI	RING RUN SEWERS	1ED					
12	Moores Run Interceptor - Middle Section Storm Water Contract Nos. 7746 and 7751	Construction of approximately 400 linear feet of 18-inch, approximately 600 linear feet of 21-inch, approximately 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	Moores 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	Moores Run Interceptor - Upper Section Sanitary Contract No. 817	Construction of approximately 1700 linear feet of 18-inch and approximately 2200 linear feet of 21-inch sewer to replace the existing interceptor	June 30, 2004	June 30, 2005	June 30, 2006	Contributes to elimination of SSO Nos. 118 and 119	Complete		
15	Elimination of Collection System Overflows in Herring Run Sewershed	Assess hydraulics and design improvements to areas adjacent to overflows	Existing on-call contract	June 30, 2003	June 30, 2004	Eliminates SSO Nos. 88 and 109	Complete		
16	Elimination of Siphon Blowoffs (Siphon No. 2 - Bay View Yard south of RR tracks; Siphon No. 4 - Bowleys Lane/Moravia Road) Sanitary Contract No. 830	 Cleaning and inspection of siphons with repairs as necessary. Elimination of blow-offs. 	On-call contract	June 30, 2004	June 30, 2005	Eliminates SSO Nos. 92	Complete*		

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

APPENDIX 2

STATUS OF PARAGRAPH 9 CONSTRUCTION PROJECTS



NW Civil Action No. JFM-02-1524 Calendar Quarterly Report No. 36 For Calendar Quarter Ending September 30, 2011

Proj. N	D. PROJECT	DESCRIPTION AND REMARKS	DATE CONSTRUCTION CONTRACT ADVERTISED	DATE OF CONSTRUCTION COMPLETION	DATE OF EVALUATION COMPLETION	STATUS
		JONES FALLS SEWERSH	IED			
JF-3		SC 876 - The work includes the Lower Jones Falls Interceptor, located in the gravity sewage collection system. Typical work includes initial SONAR assessment of the sanitary sewers to quantify sediment and debris levels, cleaning 8,400 feet of 10" to 75" sanitary sewers between Falls Rd Siphon to the High Level Interceptor, with proper disposal of removed material, and post cleaning CCTV/SONAR/Laser assessment to document the internal condition of the pipes.	5/20/2009 (A)	1/1/2012 (P)	1/1/2013 (P)	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-5	Maryland Avenue Sewer Siphon Cleaning	SC 876 - The work includes Maryland Avenue Siphon, and sewers upstream of the Maryland Avenue Siphon (18 and 24-inch sewer siphon). Typical work includes initial SONAR assessment of the sanitary sewers to quantify sediment and debris levels, cleaning of Maryland Avenue Siphon, and various sewers upstream of the Maryland Avenue Siphon, with proper disposal of removed material, and post cleaning CCTV/SONAR/Laser assessment to document the internal condition of the pipes.	5/20/2009 (A)	1/1/2013 (P)	1/1/2014 (P)	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-7	Upper Jones Falls Interceptor Reactivation	Reactivation of an inactive 42-inch diameter interceptor sewer along Jones Falls from Northern Parkway (MH S19CC_2045MH) to Cold Spring Lane (MH S19OO_1042MH). Prior to reactivation of the 42-inch sewer, an internal inspection of the sewer was necessary to find the actual condition of the line. The City utilized its technical support consultant (KCI) to carry out the inspection process. The field work was started in September 2009 and their findings was completed and a final report was delivered on June 30, 2010.	N/A	N/A	N/A	Per Consultant's (KCI) evaluation of the inspection and cleaning work, the line is in fairly good condition and can be re-activated without any major repair/rehabilitation work. This project is complete and the City will utilize this line in the future as deemed necessary a Construction project will not be pursued. All Future work for this pipe will be tracked independently by the City.

	OUTFALL SEWERSHED									
OF			SC 894 - Cleaning of Outfall Sewershed 99-Inch and Outfall Interceptor (From N. Bond Street to 6300 Block of E. Lombard Street)	11/26/10 (A)	12/31/2014 (P)	12/31/2015 (P)	Contract was advertised on November 26, 2010. Bids were received on January 19, 2011, and were much lower than the engineer's estimate. This contract was awarded to Metra Industries, who was the lowest bidder, on June 08, 2011. The Notice- to-Proceed (NTP) was issued on August 08, 2011 and the pre-construction meeting was held on August 11, 2011.			

		HIGH LEVEL SEWERSHE	Ð			
HL-8	Liberty Heights Relief Sewer	SC 879 - Design and construction 18" Relief Sewer from intersection of Springdale Rd and N Hilton St to intersection of Wabash Ave and Liberty Heights Ave. (S09UU_007MH to S13UU_008MH). Work includes excavation and removal of existing 12 inch sewer line, installation of 2400 LF of new 18-inch sewer line and relocation of 720 LF of 20-inch water line. Evaluation phase will include continual monitoring of existing engineered SSOs 132, 134 and 135 to ensure no overflows during a two year event.	12/15/2011 (P)	4/15/2013 (P)	4/15/2014 (P)	Received final comments from Water Engineering in June 2011. The specs are being revised before the final design is sent for CRC review. CRC review was held on August 30, 2011. CRC comments are currently being addressed.

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

APPENDIX 3

LIST OF ILLEGAL CONNECTIONS



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

September-11

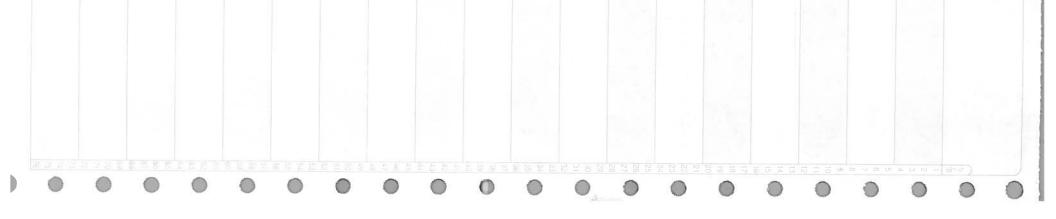
List o	of Ille	gal Connections									
Full /	Addres			st I		Person/Entity Responsible	Source Type	Date Identified	Dye Result	Current Status	Comments
1.		Berkeley Ave. Biltmore Ave.	172 311			Property Owner Property Owner	Downspout Downspout	6/20/2005 6/20/2005		Newly Identified Newly Identified	Confirmed Not Illegal Confirmed Not Illegal
3.		Clarks Ln.	212		2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
4.		Clarks Ln.	212		6	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
5.		Clarks Ln.	256		1	Property Owner	Area Drain	3/21/2005	Positive	Newly Identified	Confirmed Not Illegal
6.	2238	Crest Rd.	14	A	2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
7.	2302	Crest Rd.	13	A	5	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
8.			13	A	6	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
9.	5616	Cross Country Blvd.	99	A	2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
10.	6309	Fairlane Dr.	154			Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
11.			154			Property Owner	Downspout Connection	6/20/2005		Newly Identified	Confirmed Not Illegal
12.		Fieldcrest Rd.	272			Property Owner	Downspout Connection	6/20/2005		Newly Identified	Confirmed Not Illegal
13.	3800	Glengyle Ave.	275	B	13	Property Owner	Downspout Connection	6/20/2005		Newly Identified	Confirmed Not Illegal It was confirmed as an illegal connection in January
14.	6309	Greenspring Ave.	153	в	5	Property Owner	Downspout	6/18/2010		Illegal	2011 after carrying out more dye-testing. A letter was sent to the property owner on August 08, 2011.
15.			153		4	Property Owner	Area Drain	3/28/2005	Positive	Newly Identified	Confirmed Not Illegal
16.	2212	Ken Oak Rd.	100		1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
17.			100	_	2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
18.		Ken Oak Rd.	103		1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
19.		Key Ave.	50			Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
20.		Larryvale Rd.	154			Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
21.	5815	Lochlea Rd.	116	в	1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
22.	4424	Marble Hall Road				Property Manager	Stormwater Drain	4/13/2011		Illegal	A letter was sent to HCD on May 25, 2011, for further action. A meeting was held on July 28, 2011, with Marble Hall 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 coordination is being done to permanently resolve the issue.
23.	3	Millbrook Rd.		D	1	Property Owner/Trustee	Patio Drain	5/19/2011		Illegal	It was confirmed as an illegal connection in May 2011 after carrying out more dye-testing. A letter was sent to the property owner on August 08, 2011.
24.	5806	Park Heights Ave.	78		4	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
25.				B		Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
<u>26.</u> 27.						Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
				B		Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal Confirmed Not Illegal
28. 29.	5005	Park Heights Ave.		В	-	Property Owner Property Owner	Downspout Downspout	6/20/2005 6/20/2005		Newly Identified Newly Identified	Confirmed Not Illegal
30.		Park Heights Ave.	315			Property Owner	Downspout Connection	6/20/2005		Newly Identified	Confirmed Not Illegal
31.	0414	r ark neights Ave.	315			Property Owner	Area Drain	3/22/2005	Positive	Newly Identified	Confirmed Not Illegal
32.	7126	Park Heights Ave.	280				Downspout Connection	6/20/2005	. Ostive	Newly Identified	Confirmed Not Illegal
33.		Pearce Ave.	203		5	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
34.	2011		203		4	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
35.	6106	Pimlico Rd.	135			Property Owner	Driveway Drain	3/28/2005	Positive	Newly Identified	Confirmed Not Illegal
36.		Pimlico Rd.	127		1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
37.	5503		30	B	1	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
38.	3208	Shelburne Rd.	334	A	1	Property Owner	Driveway Drain	3/15/2005	Positive	Newly Identified	Confirmed Not Illegal
39.	1702	South Rd.	324		2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
40.		Sulgrave Ave.	320		6	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
41.		Taney Rd.	183		4	Property Owner	Driveway Drain	3/23/2005	Positive	Newly Identified	Confirmed Not Illegal
42.		Taney Rd.	183		2	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
43.		Taney Rd.	183		8	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
44.	2808	Taney Rd.	182		6	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
45.			182		5	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
46.		W. Strathmore Ave.	180	A	5	Property Owner	Downspout	6/20/2005		Newly Identified	Confirmed Not Illegal
47.		Chesholm Rd.				Property Owner	Downspout	5/9/2005	Positive	Newly Identified	Confirmed Not Illegal
48.		Park Heights Ave.				Property Owner	Downspout	5/9/2005	Positive	Newly Identified	Confirmed Not Illegal
49.		Groveland Ave.				Property Owner	Downspout	5/9/2005	Positive	Newly Identified	Confirmed Not Illegal
50.		Groveland Ave.				Property Owner	Downspout	5/9/2005	Positive	Newly Identified	Confirmed Not Illegal
51.	2705	Queen Anne Ave.				Property Owner	Downspout	5/9/2005	Positive	Newly Identified	Confirmed Not Illegal
52.	806	W University Pkwy	32			Property Owner	Area Drain	7/1/2008	Positive	Illegal	Confirmed Not Illegal

APPENDIX 4

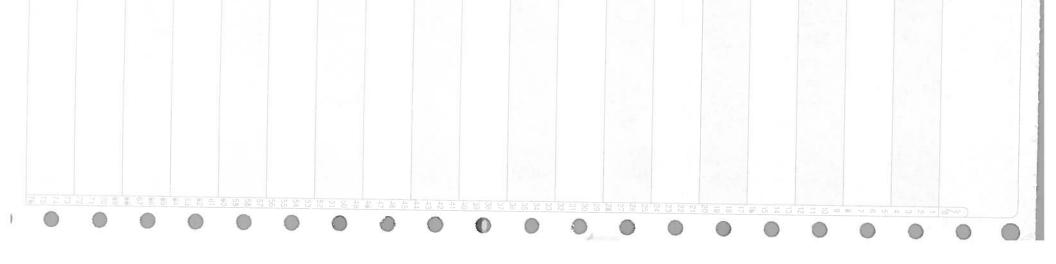
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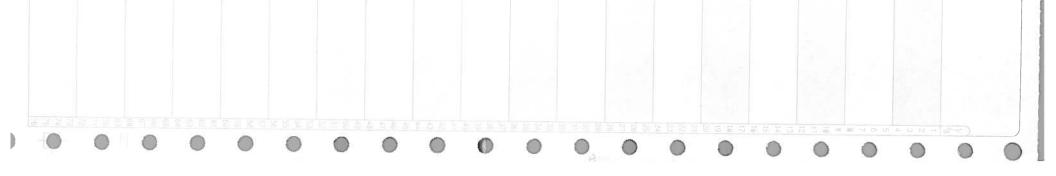
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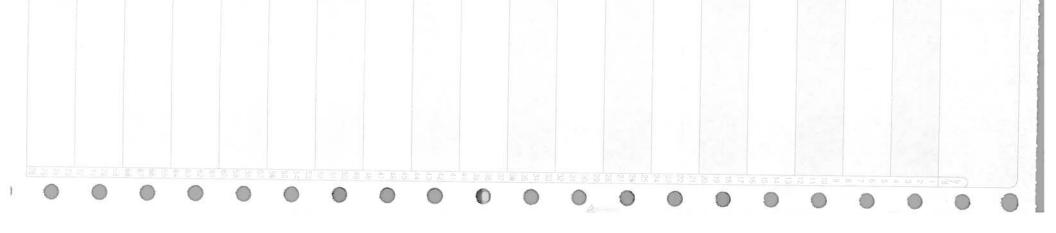
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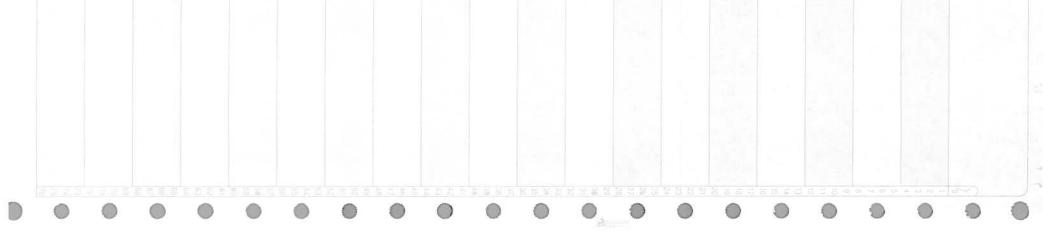
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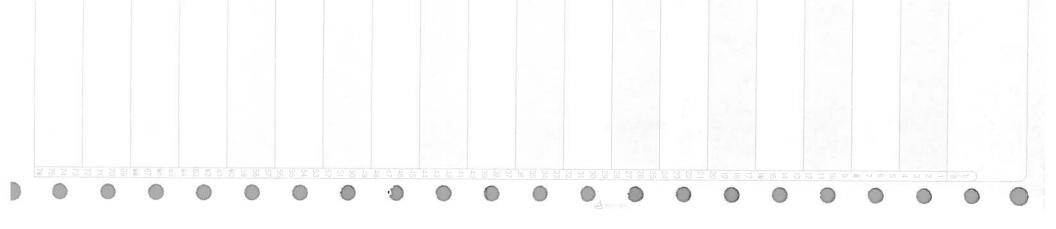
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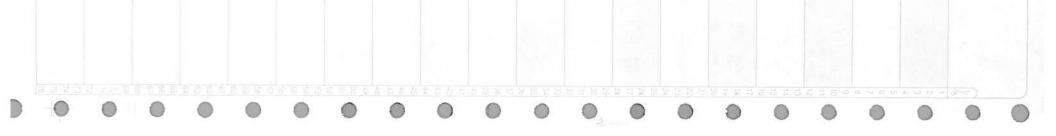
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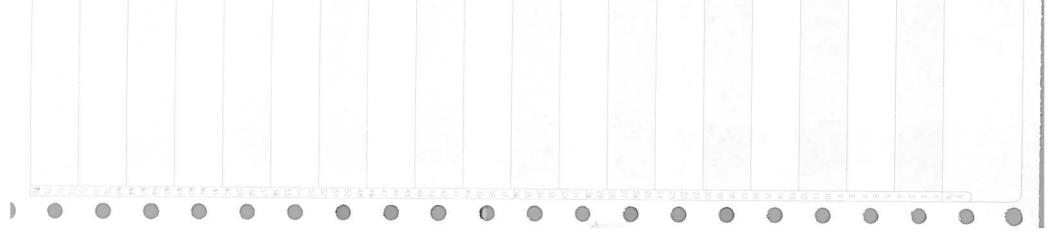
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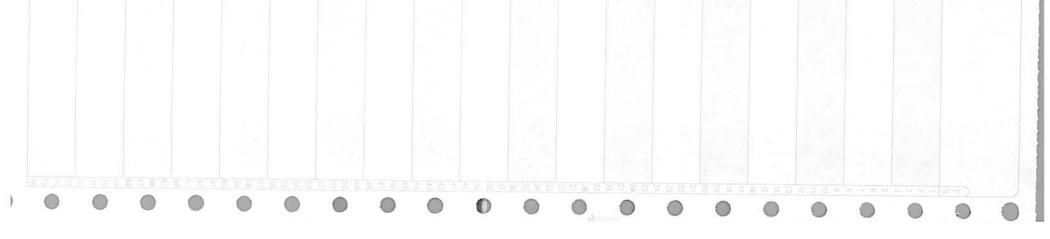


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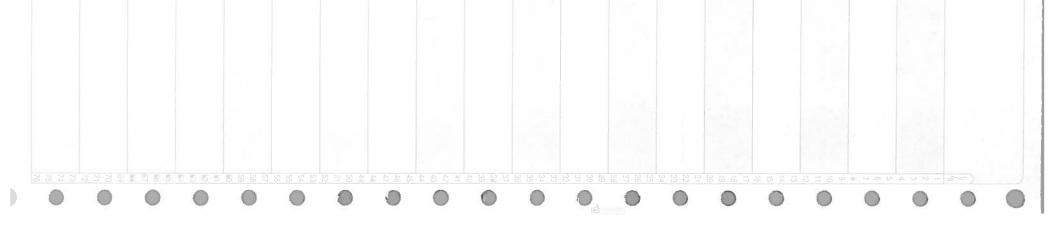
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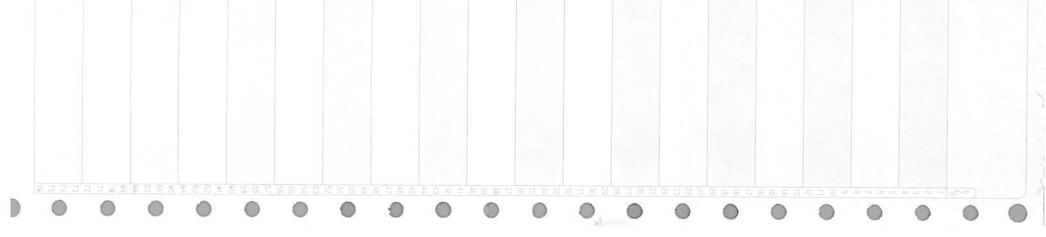
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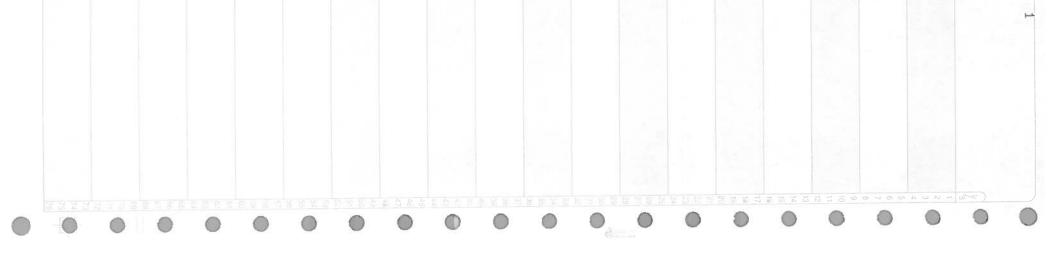
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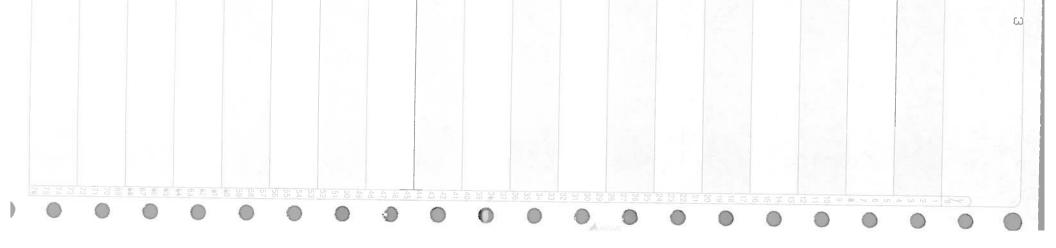
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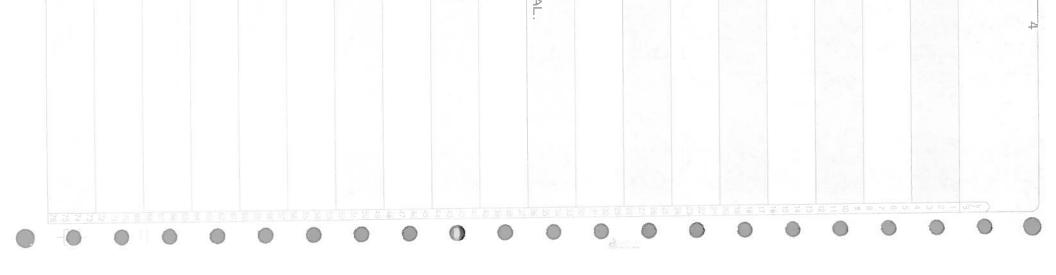
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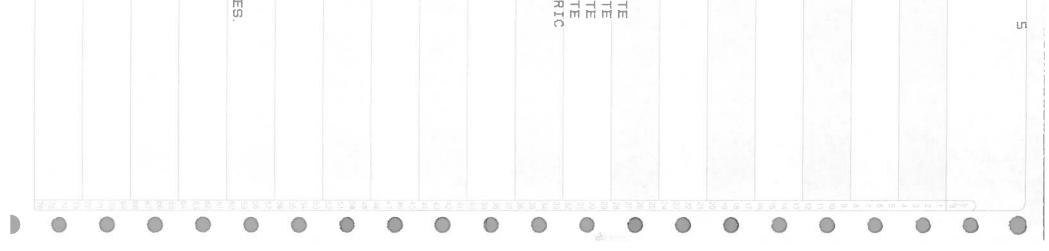
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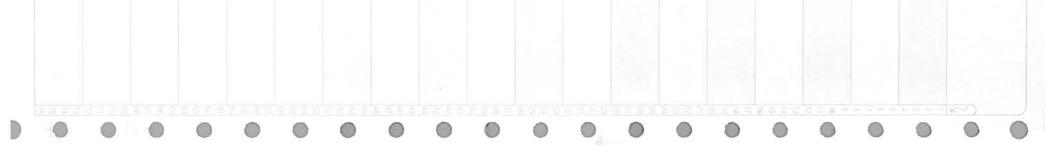


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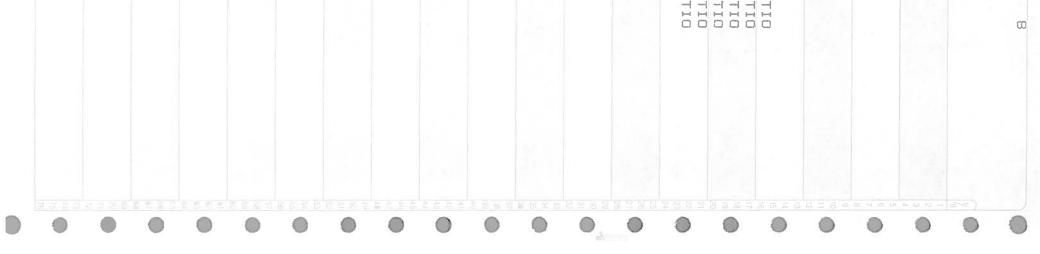


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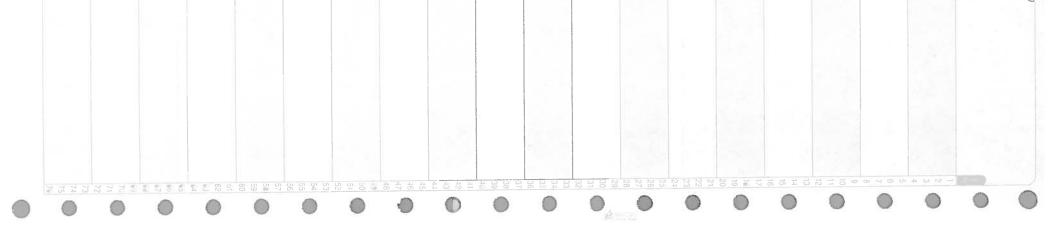
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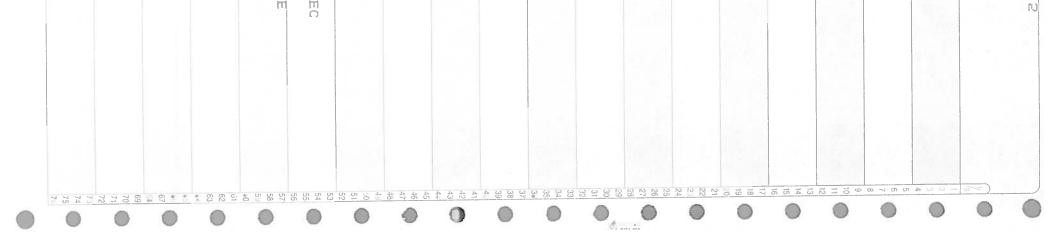


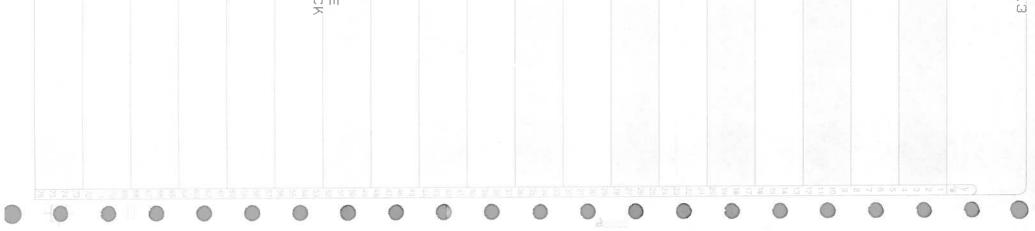
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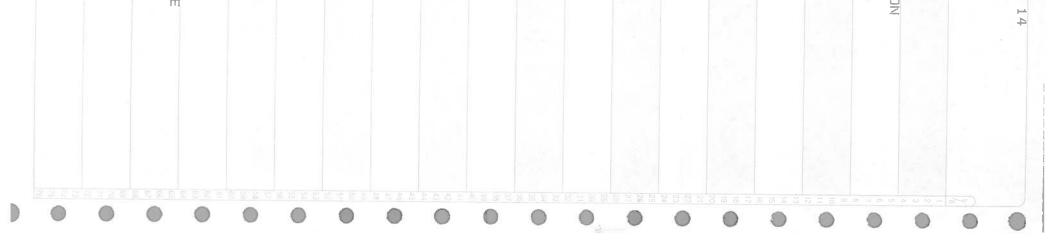
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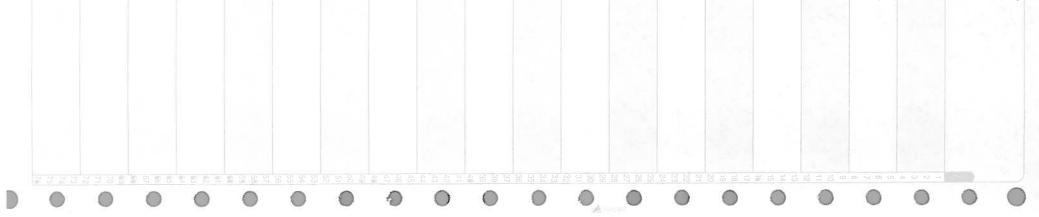




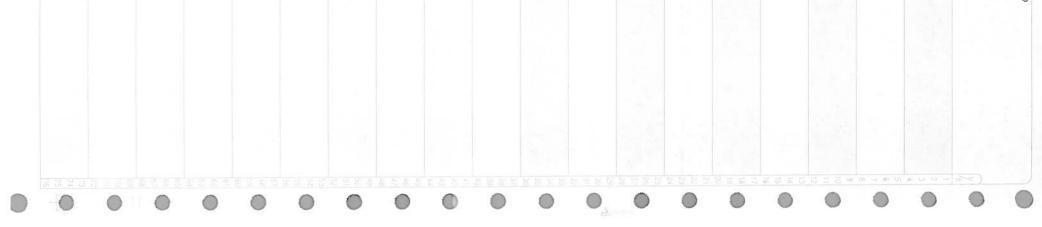
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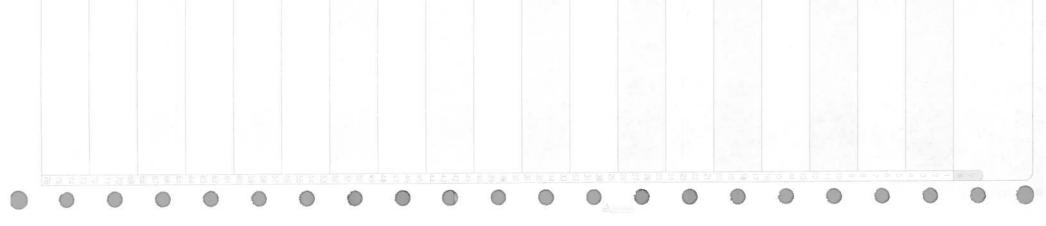
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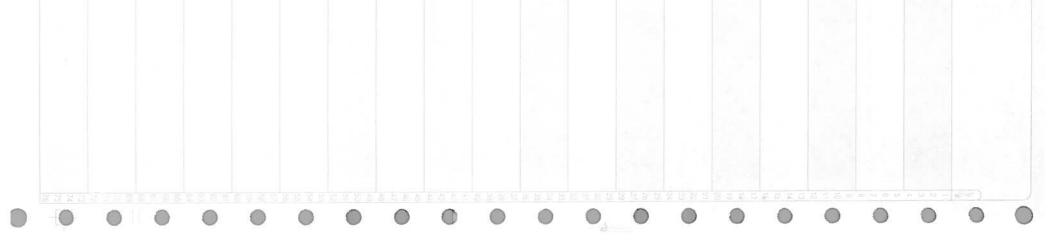
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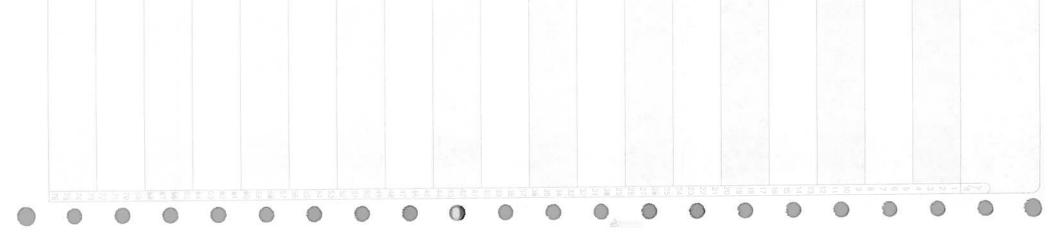
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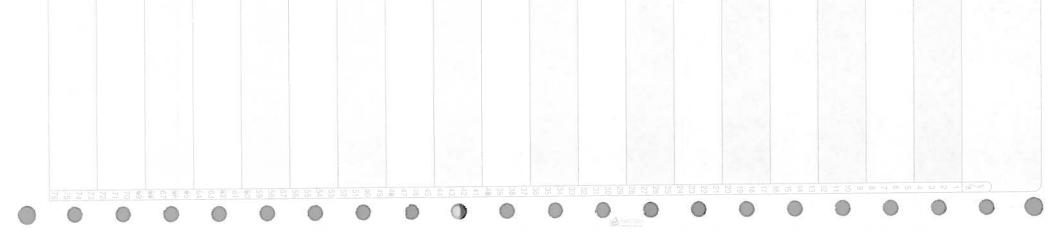


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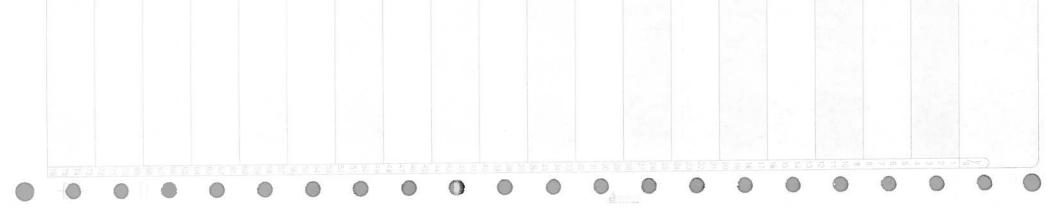


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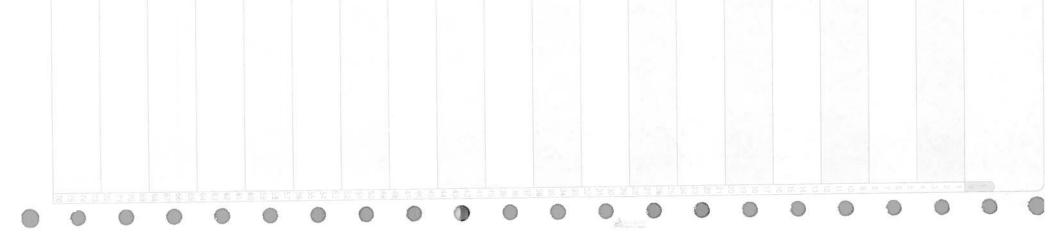
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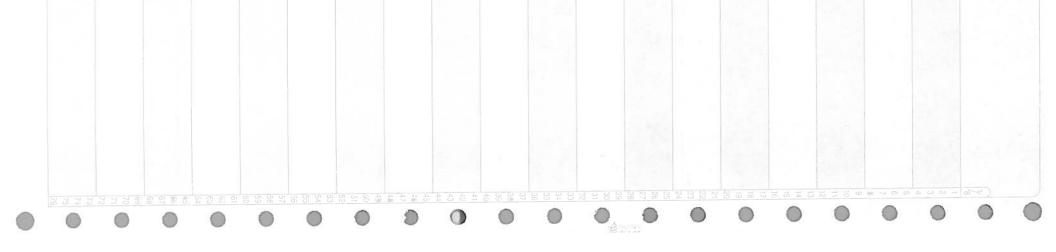
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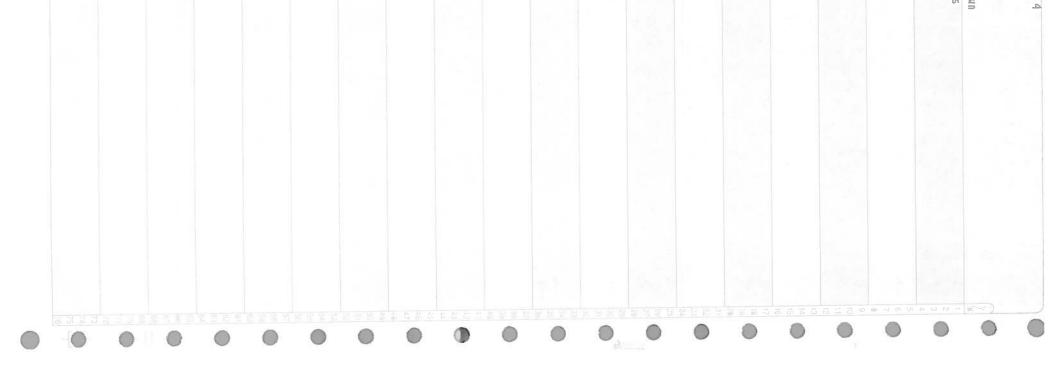
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Comparenew associations CH's & MDD's Locations Pumping Station		Machine Description	FARTI TTY NISINAL V DIMOTNA	FACILITY DUNDALK FUNFING	TANK, DIESEL FUEL (DUTSIDE)	HOTOR, BAR SCREEN #1	FACTI TTY NINDALK PHIPTNC	CINTRIN UFD \$1 SEUAGE PUR	TRANSFORMER, 75. OKVA		FACILITY, DUNDALK PUMPING	FACILITY, DUNDALK FUMPING	MUNITUR, GAS	FACILITY, DUNDALK PURPING	UDI UF FRREF NATHONISCHARE	UALVE FORCE MAIN (DISCHARE	FACILITY, DUNDALK PUMPING	FACILITY, DUNDALK PUMPING	FACILLIY, DUNDALK PUTTING	FUMP VACUUM #2	2	FACILITY DUNDALK PUMPING		CONTROL, UFD #2 SENAGE PUN	SCREEN \$1 BAR	NOTOR, BAR SCREEN \$1	FACILITY, DUNDALK PUMFING		FACILITY FASTERN AVENUE	FACILITY, EASTERN	PUMP, VACUUM \$5 FACILITY EASTERN AVENUE					HEATER HAT WATER		BUILDING, EM		
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Locations: BRKLYN DUNDAL EASTER as of 10/19/11 JF LECPH MCST RUAD WSTPT	Full Problem	Prty Description Req. Code By	tial march 64972 CS	stielperc 64972 CS	1per 64972	BY J. NARDCK	Stillberg 64972	6-9749	BY J. NARUCK 6-9748	. Sullivan 6-4972	: 64972	stielperc 64972 CS		CON 6-9752	ny EAnhost VENts full Mailer EEnns CS			AND TRANSPORTING HUSE BACK TU PLANT. NEW. BY M. HUUKS 69701 MH	REALBY M. HUBKS 69701 HH	01	stielperc 64972 CS	PLATE STEEL THATS BEEN FABRICATED FOR VALVE.SEE HODKS ADDUT WH		CS C		20	REQ BY R BARTON JR		CIL WITH ID NUMBERS AND SAFETY LABELS.SEE HODKS DR CHRIS.REQ WH CIL WITH ID NUMBERS AND SAFETY LABELS.SEE HODKS DR CHRIS.REQ WH	-stielper 64972	(red) stielper 64972 CS	see J. Narock	Sullivan 6-4972 US	rs} stielper 64972		heater in boiler room. Sullivan 6-4972	RER. BY W. HOUKS 69701			
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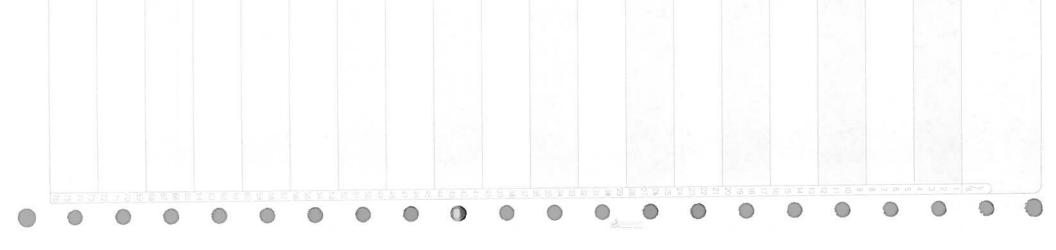
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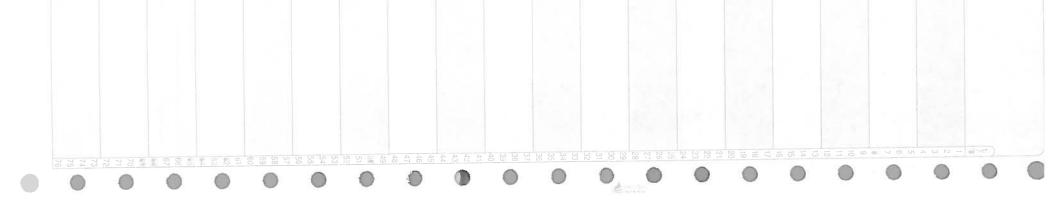
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	10 FACILITY,RUAD AVENUE 12 FLUM INDICATING RECURDER/ 14 SCREEN,BAR 14 SCREEN,BAR 16 SHITCH,MAIN 16 GENERATOR,EMERGENCY SET		2 PUNP, SEARGE 82 0 FACILITY, MCCOMAS) FACILITY,LOCUST POINT) FACILITY,LOCUST POINT		3 TRUCK,ELECTRIC PALLET 4 UFD,#3 SEWAGE PUNP(CPX900 2 PAWEL,SCADA I/D					RECORDER/TOTAL FOUNTAIN, NATER GENERATOR, EMEN		e Machine Description	Completed/Issued H/U CM's % MUD's Pumping Station
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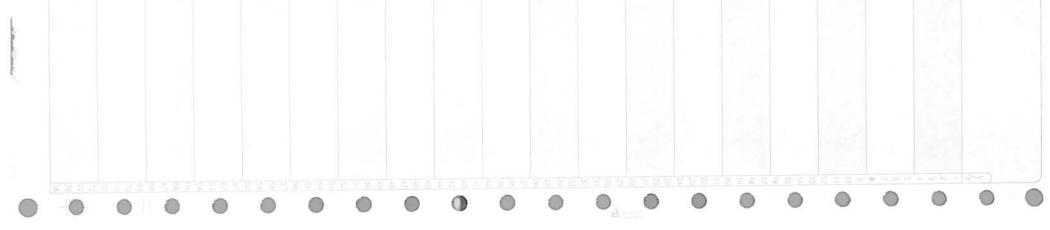
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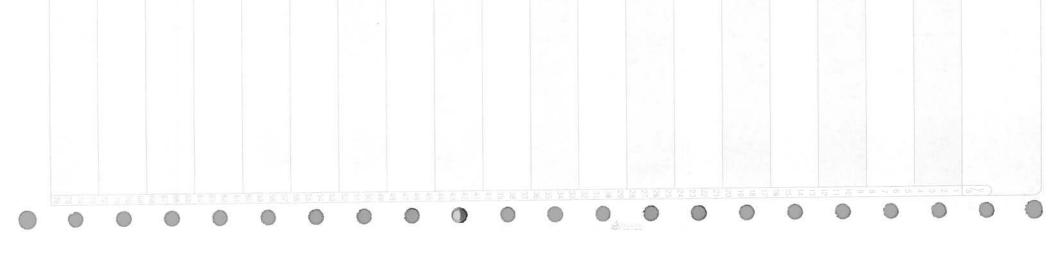
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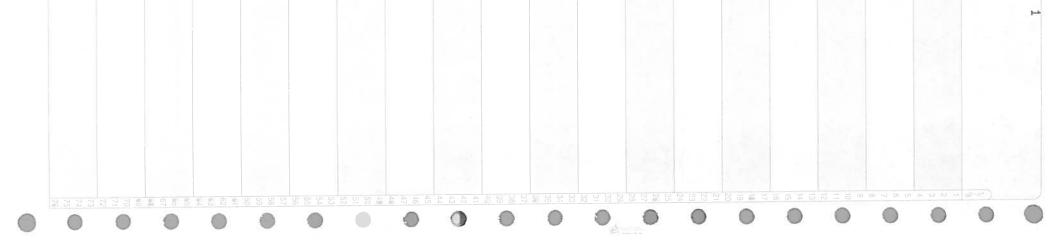
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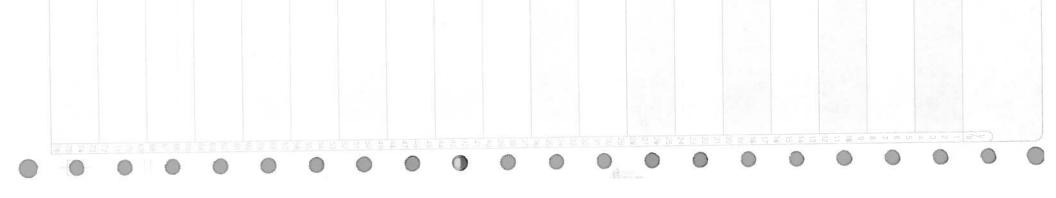
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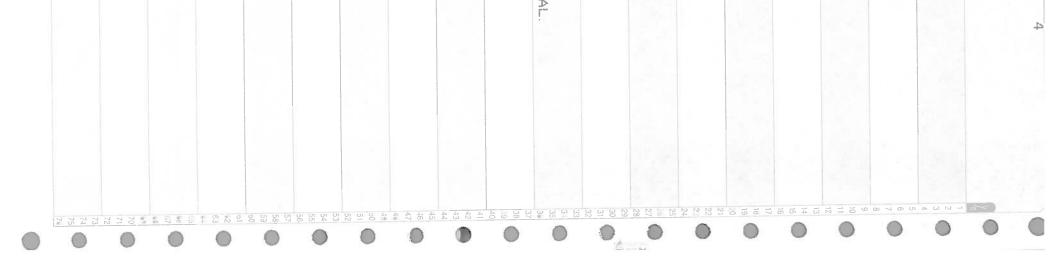
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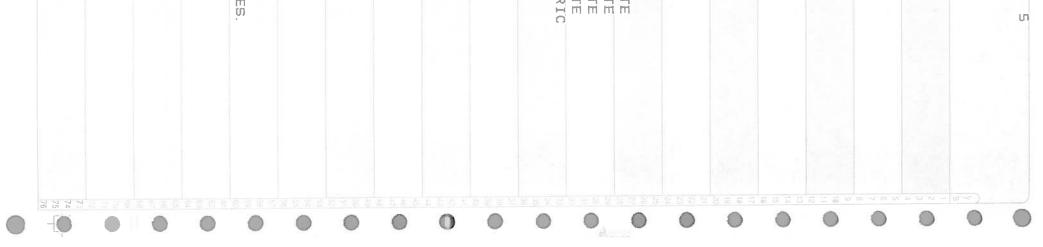
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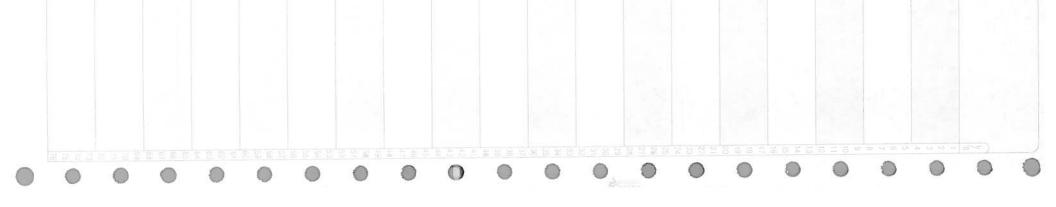
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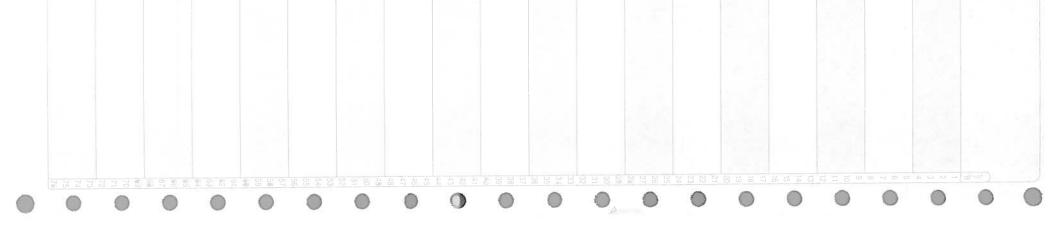
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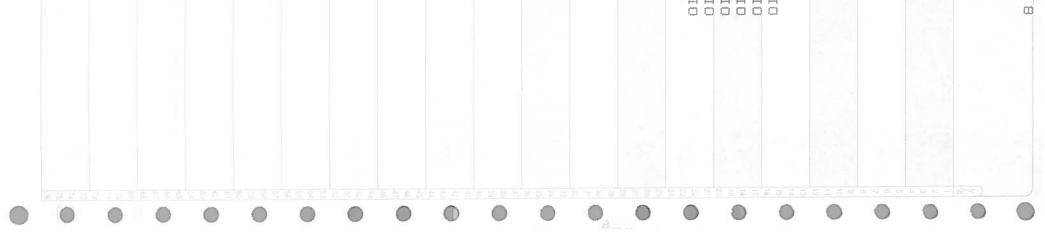
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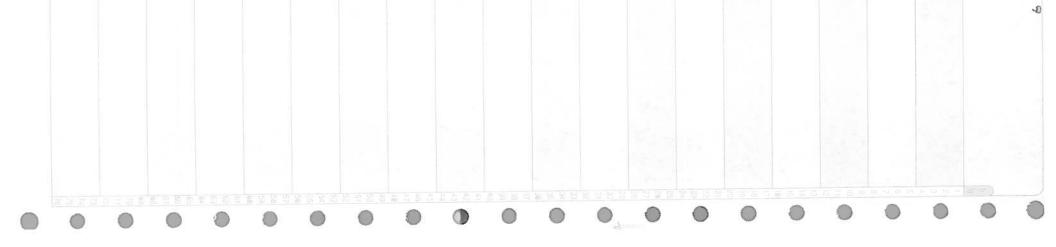


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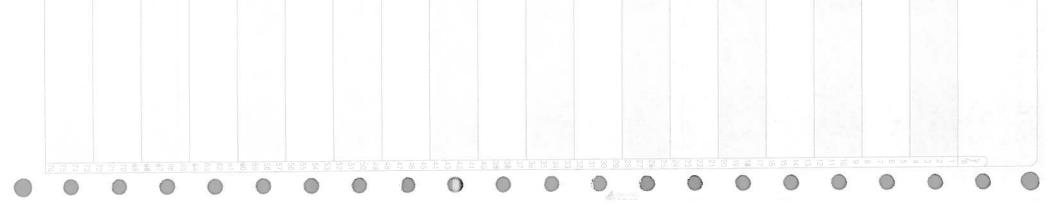


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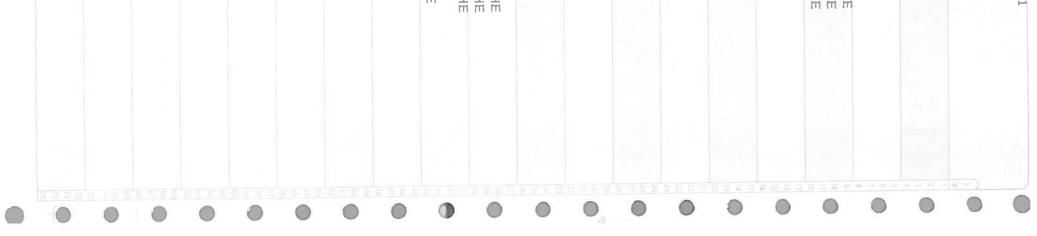
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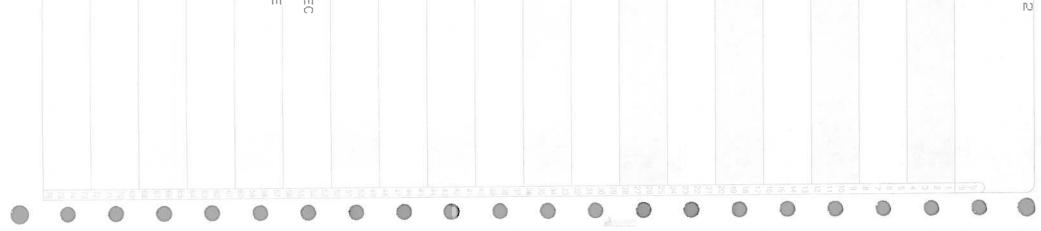
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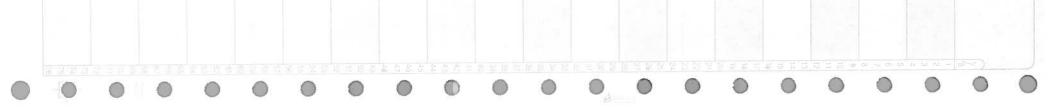
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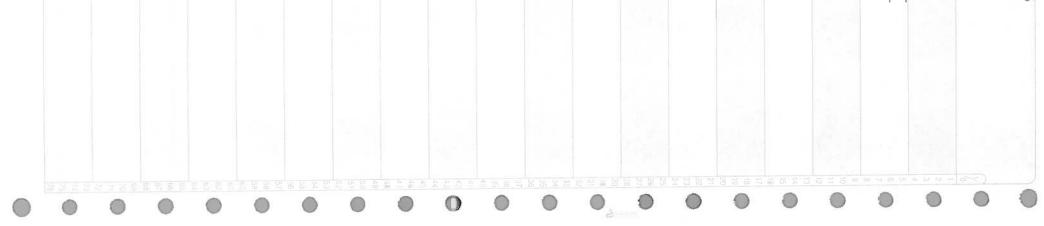
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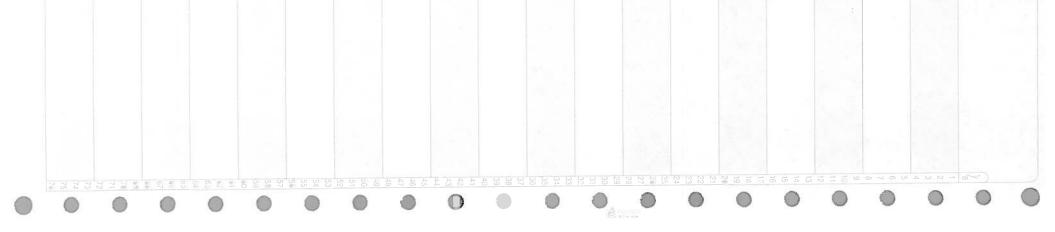
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APPENDIX 5

SUMMARY OF REPORTED OVERFLOWS



	SSO No. 67	
Date	Surcharge Depth (in)**	<u>Rainfall (in)</u>
8/14/2011	Flow Meter in Place	0.89
8/15/2011	Flow Meter in Place	0.89
8/21/2011	Flow Meter in Place	2.06
8/27/2011	Flow Meter in Place	2.80
8/28/2011	Flow Meter in Place	1.01
9/7/2011 – 9/9/2011	Flow Meter in Place	9.29
9/23/2011	Flow Meter in Place	2.28
	SSO No. 72	
Date	Surcharge Depth (in)**	Rainfall (in)
7/7/2011	Flow Meter in Place	0.88
7/19/2011	Flow Meter in Place	1.81
7/25/2011	Flow Meter in Place	0.84
8/13/2011	Flow Meter in Place	0.73
8/14/2011	Flow Meter in Place	0.89



8/15/2011	Flow Meter in Place	0.89
8/21/2011	Flow Meter in Place	2.06
8/27/2011	Flow Meter in Place	2.80
8/28/2011	Flow Meter in Place	1.01
9/7/2011 – 9/9/2011	Flow Meter in Place	9.29
9/23/2011	Flow Meter in Place	2.28

SSO No. 132

Date	Surcharge Depth (in)**	<u>Rainfall (in)</u>
8/14/2011	Flow Meter in Place	1.57
8/27/2011	Flow Meter in Place	2.94
8/28/2011	Flow Meter in Place	1.49
9/7/2011 – 9/9/2011	Flow Meter in Place	6.72

SSO No. 134

Date	Surcharge Depth (in)**	<u>Rainfall (in)</u>



		•, _• · · ·
9/7/2011 – 9/9/2011	Flow Meter in Place	6.72
9/23/2011	Flow Meter in Place	1.61
	SSO No. 135	
Date	Surcharge Depth (in)**	<u>Rainfall (in)</u>
8/14/2011	Flow Meter in Place	1.57
8/15/2011	Flow Meter in Place	1.87
8/27/2011	Flow Meter in Place	2.94
8/28/2011	Flow Meter in Place	1.49
9/7/2011 – 9/8/2011	Flow Meter in Place	6.72
	SSO No. 137	
Date	Surcharge Depth (in)**	<u>Rainfall (in)</u>
8/13/2011	Flow Meter in Place	1.91
8/14/2011	Flow Meter in Place	1.42
8/21/2011	Flow Meter in Place	2.24
8/27/2011	Flow Meter in Place	2.93



8/28/2011	Flow Meter in Place	1.00
9/6/2011 – 9/9/2011	Flow Meter in Place	7.61
9/23/2011	Flow Meter in Place	3.53
	SSO No. 138	
Date	Surcharge Depth (in)**	<u>Rainfall (in)</u>
8/14/2011	Flow Meter in Place	2.74
8/28/2011	Flow Meter in Place	0.86
9/7/2011 – 9/8/2011	Flow Meter in Place	7.27
	SSO No. 139	
Date	SSO No. 139	Rainfall (in)
<u>Date</u> 8/14/2011		<u>Rainfall (in)</u> 2.74
	Surcharge Depth (in)**	
8/14/2011	Surcharge Depth (in)** Flow Meter in Place	2.74
8/14/2011 8/15/2011	Surcharge Depth (in)** Flow Meter in Place Flow Meter in Place	2.74 0.38
8/14/2011 8/15/2011 8/27/2011	Surcharge Depth (in)** Flow Meter in Place Flow Meter in Place Flow Meter in Place	2.74 0.38 2.15



	Pumping S	Station Overflows	
Pumping Station			
<u> </u>		<u>Volume Loss</u>	
	<u>Date</u>	<u>(gal)</u>	<u>Rainfall (in)</u>
Dundalk	9/8/11	1,700,000	N/A
Was	ste Water Tre	eatment Plant Overflow	S
WWTP	Date	<u>Volume Loss (gal)</u>	<u>Rainfall (in)</u>
Back River	8/13/11	2,000	1.16
Back River	8/14/11	2,400,000	2.17



Date	Estimated Volume (Gal)	Cause	Rain	Receiving Waters	Location	Zip
7/2/2011	Evidence of Overflow	Rags & Roots	0.00	Jones Falls	1704 W Rogers Ave	21209
7/2/2011	Evidence of Overflow	Debris	0.00	None	Harford Rd & Argonne Dr	21218
7/2/2011	35	Roots & Grease	0.00	Herring Run	1008 Argonne Dr	21218
7/3/2011	200	Grease & Trash	0.31	Northwest Harbor	N Wolfe St & E Fayette St	21287
7/5/2011	196	Grease & Debris	0.00	Gwynns Falls	3712 Windsor Mill Rd	21216
7/5/2011	99	Rags & Roots	0.00	Gwynns Falls	705 Nottingham Rd	21229
7/5/2011	118	Rags & Grease	0.00	Gwynns Falls	2107 N Fulton Ave	21217
7/5/2011	Evidence of Overflow	Rags & Grease	0.00	None	229 S Dallas Ct	21231
7/5/2011	2,880	Rags, Roots, Grease	0.00	Gwynns Falls	403 Old Orchard Rd	21229
7/6/2011	1,448	Rags & Sand, Gravel, Rocks	0.00	Jones Falls	2231 Rogene Dr	21209
7/8/2011	Evidence of Overflow	Rags	0.35	None	1616 Druid Hill Ave	21217
7/9/2011	60	Rags & Grease	0.00	Inner Harbor	100 N Wolfe St	21231
7/11/2011	Evidence of Overflow	Roots & Trash	0.00	None	4103 Chesterfield Ave	21213
7/11/2011	1,253	Rags, Grease, Debris	0.00	Gwynns Falls	2737 Prospect St	21216
7/12/2011	160	Pipe Break & Sand, Gravel, Rocks	0.00	Jones Falls	3609 Greenspring Ave	21211
7/12/2011	Evidence of Overflow	Debris	0.00	None	5906 Park Heights Ave	21215
7/13/2011	Evidence of Overflow	Rags	0.06	None	2505 Oswego Ave	21215
7/14/2011	360	Rags & Roost	0.00	Gwynns Falls	3360 Wilkens Ave	21229
7/14/2011	148	Rags & Roots	0.00	Jones Falls	3406 W Rogers Ave	21215
7/15/2011	Evidence of Overflow	Rags & Grease	0.00	None	438 N Lakewood Ave	21224
7/15/2011	Evidence of Overflow	Rags, Grease, Trash	0.00	None	415 N Glover St	21205
7/15/2011	1,680	Rags & Debris	0.00	Jones Falls	6102 Ivymount Rd	21209
7/15/2011	1,425	Trash & Debris	0.00	Jones Falls	1101 E North Ave	21202
7/15/2011	Evidence of Overflow	Roots	0.00	None	6316 Hickory Ave	21211
7/18/2011	Evidence of Overflow	Roots	0.80	None	2308 Pennyroyal Ter	21209
7/18/2011	Evidence of Overflow	Rags	0.80	Gwynns Falls	2107 N Fulton Ave	21217
7/19/2011	Evidence of Overflow	Debris	0.00	Inner Harbor	N Wolfe St & E Fayette St	21287
7/20/2011	163	Roots	0.00	Jones Falls	3107 Parkington Ave	21215
7/21/2011	85	Rags & Grease	0.00	Jones Falls	1712 Lamont Ave	21202
7/21/2011	1,650	Rags, Grease, Debris	0.00	Northwest Harbor	2701 Boston St	21224
7/24/2011	130	Trash	0.98	Jones Falls	602 W 34th St	21211
7/24/2011	108	Roots	0.98	Jones Falls	2702 Maryland Ave	21218
7/25/2011	Evidence of Overflow	Debris	0.00	None	1611 Spruce St	21226
7/25/2011	Evidence of Overflow	Roots	0.00	None	3019 Elizabeth Ave	21230
7/28/2011	360	Rags & Grease	0.00	Jones Falls	6701 Reisterstown Rd	21215
7/29/2011	Evidence of Overflow	Roots	0.00	None	2011 Harlem Ave	21217
7/29/2011	290	Rags & Debris	0.00	None	1704 W Rogers Ave	21209
7/30/2011	300	Rags & Grease	0.00	Gwynns Falls	2310 Cedley St	21230
7/30/2011	120	Rags & Grease	0.00	Herring Run	5412 Tramore Rd	21214
7/30/2011	60	Rags & Grease	0.00	Patapsco River	2000 Haines St	21230



Date	Estimated Volume (Gal)	Cause	Rain	Receiving Waters	Location	Zip
7/31/2011	Evidence of Overflow	Roots	0.31	None	813 Bradhurst Rd	21212



Date	Estimated Volume (Gal)	Cause	Rain	Receiving Waters	Location	Zip
8/1/2011	423	Rags & Debris	0.31	Jones Falls	1704 W Rogers Ave	21209
8/1/2011	228	Rags & Grease	0.31	Patapsco	500 Haines St	21230
8/1/2011	232	Rags, Grease, Debris	0.31	Patapsco	928 Bethune Rd	21225
8/2/2011	172	Rags & Roots	0.15	Gwynns Falls	2507 Talbot Rd	21216
8/3/2011	2,225	Rags & Grease	0.49	Gwynns Falls	1023 N Ellamont St	21216
8/5/2011	104	Rags	0.00	Patapsco	3500 Horton Ave	21225
8/5/2011	4,925	Rags, Roots, Trash	0.00	Jones Falls	W Northern Pkwy & Greenspring Ave	21215
8/6/2011	Evidence of Overflow	Roots & Grease	0.53	None	4106 Belle Ave	21215
8/9/2011	1,600	Rags, Grease, Trash	0.06	Northwest Harbor	6200 Elliott St	21224
8/11/2011	600	Rags & Roots	0.00	Jones Falls	W Northern Pkwy & Greenspring Ave	21215
8/11/2011	1,140	Rags, Grease & Sand, Gravel, Rocks	0.00	Jones Falls	2231 Rogene Dr	21209
8/12/2011	74	Grease	0.00	Gwynns Falls	903 N Monroe St	21217
8/12/2011	Evidence of Overflow	Rags	0.00	None	5217 Springlake Way	21212
8/14/2011	7,500	Heavy Rain	2.17	Jones Falls	2200 Falls Rd	21211
8/15/2011	Evidence of Overflow	Roots & Grease	0.91	None	204 E Chase St	21202
8/16/2011	2,332	Grease	0.01	Jones Falls	2700 Virginia Ave	21215
8/17/2011	2,446	Rags, Roots, Grease	0.04	Gwynns Falls	5012 Wetheredsville Rd	21207
8/17/2011	Evidence of Overflow	None	0.04	None	3200 White Ave	21214
8/17/2011	194	Rags, Grease, Debris	0.04	Patapsco	823 Gretna Ct	21225
8/18/2011	910	Rags & Grease	0.16	Gwynns Falls	Marbourne Ave & Janice Ave	21230
8/20/2011	720	Rags	1.63	Gwynns Falls	S Beechfield Ave & Frederick Ave	21229
8/22/2011	7,200	Sand, Gravel, Rocks	0.00	Gwynns Falls	S Beechfield Ave & Frederick Ave	21229
8/23/2011	Evidence of Overflow	None	0.00	None	1356 Cleveland St	21230
8/24/2011	Evidence of Overflow	Rags	0.00	None	3200 White Ave	21214
8/24/2011	Evidence of Overflow	Roots	0.00	None	5105 Falls Road Ter	21210
8/25/2011	Evidence of Overflow	Roots	0.34	None	800 N Rosedale St	21216
8/25/2011	Evidence of Overflow	Rags & Roots	0.34	None	1356 Cleveland St	21230
8/25/2011	Evidence of Overflow	Roots	0.34	None	2805 Goodwood Rd	21214
8/26/2011	1,050	Rags & Debris	0.00	Gwynns Falls	3010 Janice Ave	21230
8/26/2011	1,900	Rags, Roots, Trash	0.00	Herring Run	Chesterfield Ave & Cardenas Ave	21213
8/27/2011	Evidence of Overflow	Rags & Debris	2.94	Patapsco	3800 St Margaret St	21225
8/27/2011	209	Roots & Grease	2.94	Jones Falls	5105 Falls Road Ter	21210
8/28/2011	986	Rags & Grease	1.34	Inner Harbor	1700 E Chase St	21213
	770	Rags & Grease	1.34	Gwynns Falls	3010 Janice Ave	21230



Date	Estimated Volume (Gal)	Cause	Rain	Receiving Waters	Location	Zip
8/29/2011	Evidence of Overflow	Roots & Debris	0.01	Jones Falls	320 E 33rd St	21218
8/30/2011	Evidence of Overflow	Mud	0.00	Jones Falls	3458 Park Heights Ave	21215
8/30/2011	393	Grease	0.00	Patapsco	1211 Slater Rd	21225
8/30/2011	Evidence of Overflow	Rags	0.00	Gwynns Falls	2704 Washington Blvd	21230
8/31/2011	510	Rags, Grease, Trash	0.00	Inner Harbor	200 Herring Ct	21231
8/31/2011	Evidence of Overflow	Debris	0.00	Jones Falls	1700 Ensor St	21202



Date	Estimated Volume (Gal)	Cause	Rain	Receiving Waters	Location	Zip
9/1/2011	Evidence of Overflow	Unknown	N/A	Gwynns Falls	2318 Allendale Rd	21216
9/1/2011	7,200	Pipe Break		Jones Falls	300 Madison St	21202
9/2/2011	750	Debris	N/A	Patapsco	2200 Van Deman St	21222
9/2/2011	Evidence of Overflow	Rags	N/A	None	1813 Eutaw Pl	21217
9/2/2011	Evidence of Overflow	Roots	N/A	Jones Falls	3014 Frisby St	21218
9/3/2011	40	Roots	N/A	Herring Run	1006 Argonne Dr	21218
9/7/2011	Evidence of Overflow	Heavy Rain & Debris	N/A	Herring Run	5500 Northwood Dr	21239
9/8/2011	9,000	Heavy Rain	N/A	Inner Harbor	1700 E Chase St	21213
9/9/2011	(currently unknown)	Heavy Rain, Infilt/Inflow	N/A	Jones Falls	1700 Falls Rd	21211
9/9/2011	(currently unknown)	Heavy Rain, Infilt/Inflow	N/A	Jones Falls	Penn Station	21202
9/9/2011	(currently unknown)	Heavy Rain, Infilt/Inflow	N/A	Inner Harbor	E Chase St & Rutland Ave	21205
9/9/2011	(currently unknown)	Heavy Rain, Infilt/Inflow	N/A	Northwest Harbor	E Eager St & N Durham St	21205
9/9/2011	2,172	Pipe Break & Roots	N/A	Gwynns Falls	2507 Talbot Rd	21216
9/9/2011	5,400	Rags & Grease	N/A	Gwynns Falls	Evergreen St & Windsor Ave	21216
9/9/2011	Evidence of Overflow	Rags	N/A	None	3032 Seamon Ave	21225
9/10/2011	Evidence of Overflow	Roots	N/A	None	306 Venable Ave	21218
9/12/2011	Evidence of Overflow	Debris	N/A	None	1027 S Hanover St	21230
9/12/2011	1,050	Debris	N/A	Gwynns Falls	4002 Wabash Ave	21215
9/13/2011	360	Rags, Grease, Debris	N/A	Gwynns Falls	Marmon Ave & Chandler Ave	21207
9/13/2011	1,200	Roots	N/A	Herring Run	4406 Findlay Rd	21206
9/13/2011	Evidence of Overflow	Rags, Grease, Debris	N/A	Gwynns Falls	2613 Windsor Ave	21216
9/13/2011	Evidence of Overflow	Pipe Break	N/A	None	1027 S Hanover St	21230
9/13/2011	60	Rags	N/A	Jones Falls	Brentwood Ave & E Oliver St	21202
9/15/2011	Evidence of Overflow	Rags	N/A	None	524 W Franklin St	21201
9/15/2011	71	Roots, Grease	N/A	Jones Falls	653 W University Pkwy	21211
9/16/2011	448	Rags, Grease	N/A	Jones Falls	2537 Brookfield Ave	21217
9/17/2011	218	Rags	N/A	Gwynns Falls	836 Glen Allen Dr	21229
9/18/2011	180	Raags & Roots	N/A	Jones Falls	303 Goodwood Garden	21210
9/21/2011	Evidence of Overflow	Rags	N/A	None	3406 W Rogers Ave	21215
9/23/2011	992	Heavy Rain	N/A	Jones Falls	401 E Eager St	21230
9/23/2011	176	Rags & Grease	N/A	Herring Run	4700 Erdman Ave	21205
9/23/2011	6,200	Heavy Rain	N/A	Jones Falls	1901 Maryland Ave	21218
9/25/2011	30	Rags	N/A	None	3101 Tilden Dr	21211
9/27/2011	1,050	Debris	N/A	Inner Harbor	4109 Rondo Ct	21225
9/27/2011	Evidence of Overflow	Rags	N/A	Gwynns Falls	4815 Lindsay Rd	21229
9/28/2011	1,165	Rags & Roots	N/A	Jones Falls	2400 W Northern Pkwy	21215
9/28/2011	1,990	Grease & Sand, Gravel, Rocks	N/A	Jones Falls	Lafayette Ave & Falls Rd	21201
9/28/2011	Evidence of Overflow	Rags, Grease	N/A	None	2601 Oswego Ave	21215



Date	Estimated Volume (Gal)	Cause	Rain	Receiving Waters	Location	Zip		
Notes:								
1. Unknown Quantity -	When DPW visited t	he site, the problem had alrea	ady subsided,	but the source of discharg	e was evident.			
2. Traces of sewage were evident but SSO had subsided prior to arrival at the site.								
3. N/A- Not Available (March Rain Gauge data not available at time of this report.)								



Serial No.	Date of Occurrence	Location	Zip Code	Stream Affected	Date of Resolution (See Note 6 Below)	Duration (Days)	Est. Quantity of Discharge (gallons)	Measures taken to identify Source or Resolve	Future/Planned Work
Priority #1	1/3/2002	Stony Run/University Parkway Hopkins House	21218	Jones Falls	Not Resolved	On-going	77,314 (T)	A meeting was conducted on 7/19/2011 with Hopkins House management company representatives and a follow up letter was sent by the Bureau of Water and Wastewater to the property owner advising of the problem.	City to follow-up with home owner.
1	11/30/2007	Mannasota & Shannon	21213	Herring Run	Not Resolved	On-going	8,520,453 (T)	City had on-call contractor cap the under drain to resolve the SDUO, but the sewage is now filtrated into the storm drain pipe. City has reviewed prior wor and has determined that a section of pipe may have not been inde due to sags. SWMD performed additional dye testing on the unlined section of sewe pipe no dye showed in storm drain or underdrain.	Further investigation with dye testing and ammonia testing is required. Plugging of outfall underdrain has not abated the SDUO. The on-cat consultant recommended that the last remaining un-lined segment of Mannasota Ave. interceptor be replaced.
2	4/11/2007	6225 York Rd behind Walker Mews Apartment Building	21212	Herring Run	Not Resolved	On-going	1,903,400 (T)	Dye and ammonia testing and CCTV inspections performed prior to CIPP lining. CIPP lined sewer, but testing indicated no resolution. After further testing, additional CIPP Lining is recommended. Manhole required to complete CIPP lining has been located in field.	severely offset, impairing any lining operations.
14	9/18/2007	JHU Campus	21218	Jones Falls	Not Resolved	On-going	2,157,139 (T)	JHU confirmed that they are making progress on remedial measures on the pipe work to UES on 7/11/11.	The city continues to follow up with JHU on the progress of the work to ensure timely completion.
20	7/5/2006	W. 24th & Morton St.	21218	Jones Falls	Not Resolved	On-going	2,754,720 (A)	It was confirmed that the private properties contributing to the problem were 2417 and 2433 Maryland. Ave . A violation notice was issued by HCD/HABC and on 9/1911/. HCD reported that 2417 and 2433 Maryland Ave, have been corrected by a private plumber.	The City has requested that SWMD perform confirmatory testing at manhole.
24	9/1/2004	Collins Ave (end of the 500 block)	21229	Gwynns Falls	Not Resolved	On-going	1,861,200 (T)	Smoke testing was performed on a/24/11. The on call consultant is currently coordinating with property owners to continue further investigations. The property owner at 421 S. Augusta Ave. remain unccooperative and a violation notice was sent by HCD/HABC. One of the property owners re-routed the improperty connected house connection. Based on re- testing by SWMD at the manhole on Potter St., the SDUO has still not been abated.	City to continue investigations and perform further smoke and dye testing.
28	1/10/2007	Lovegrove & 31st Southwest Corner	21218	Inner Harbor	Not Resolved	On-going	5,213,376 (A)	City continues to investigate by performing smoke and dye testing to attempt to identify additional properties improperly connected to th old drain. It was determined that 3014 St. Paul st. is still illegally connected to the drain.	City on-call contractor to re-excavate at the rear of 3014 St. Paul Street and connect property to sanitary line. SWMD is to perform confirmatory testing after the repair is completed.
32	5/19/2009	4016-4018 Rogers Ave Rogers Post Apartments	21207	Gwynns Falls	Not Resolved	On-going	433,277 (T)	Series of dye and ammonia testing performed and CCTV inspections. Problem identified to be a private property issue. Coordinated with Battimore City Housing Department to address this issue.	Continue coordinating with Baltimore City Housing Department to address this issue. City Housing to forward issue to their compliance dept. for further action as necessary.

Serial No.	Date of Occurrence	Location	Zip Code	Stream Affected	Date of Resolution (See Note 6 Below)	Duration (Days)	Est. Quantity of Discharge (gallons)	Measures taken to identify Source or Resolve	Future/Planned Work
33	6/25/2009	Cross Country Blvd & Crest Rd.	21209	Jones Falls	Not Resolved	On-going	3,299,013 (T)	CIPP lining was performed on Crest Road on 2/28/11. Confirmatory testing has showed that this SDUO still not resolved.	The City will line another sewer segment on Crest Rd.
34	7/17/2009	Pall Mall Rd & Oswego Ave	21215	Jones Falls	Not Resolved	On-going	405,720 (T)	Property with illicit connection to storm drain has bee identified. Notified HCD/HABC of an apparent violation, and notice was issUES 01/10/11.	Continue coordination with HCD continues , to chec when this connection will be re-routed by the owner. Once complete, follow up testing will be carried out.
35	8/19/2009	Eager St 24" Storm Drain feeding into Guilford Ave	21202	Jones Falls	Not Resolved	On-going	330,358 (Т)	On 7/27/11, City - on-call Contractor builds new manhole on terminus (next to property line) of drain at 1010 Saint Paul St.	1010 Saint Paul St has been confirmed as the source of sewage. Property owner is reportedly trying to make repairs. SWMD will continue to monitor manhole and retest.
37	11/6/2009	Lakewood Ave & Madison St (66° Storm Drain)	21205	Inner Harbor	3/8/2010	121	2,008,980 (T)	Each pipe was previously plugged and areas around plugs grouted in May 2011. Based on testing by SWMD, it appeared that the plugs and grouting worked initially and this location was determined to be resolved. SWMD relested on 7/26/2011 and tound that grouting has not abated the problem.	City to continue investigations.
38	11/6/2009	3302 Esther Place (inside 54*storm drain)	21212	Inner Harbor	Not Resolved	On-going	1,494,720 (T)	For north side, letter to be sent to HCD/HABC. HCD issues a violation notice on 01/10/11. For south side pipe has been plugged. SVMND checked on the plug on 12/15/10, and it continues to hold.	Follow up with HCD to check when this connection will be re-routed by the owner. Once complete, follow up testing will be carried out.
40	5/26/2010	Cross Country & Chillham Rd (300 ft northeast of intersection in am uncharted 15" Storm Drain)	21209	Western Run	Not Resolved	On-going	20,051 (T)	Verified as SDUO site by ammonia field test and dye test completed on May 26, 2010.	City plans on utilizing on-call Contractor to replace or line pipe.
41	5/26/2010	6214 Pimlico Rd (in Manhole)	21209	Western Run	Not Resolved	On-going	176,400 (T)	HCD/HABC reports that remedial measures are completed by property owner	Request made to SWMD to retest.
42	6/3/2010	Cross Country & Key Ave (Storm Drain MH with sewage in bottom)	21215	Western run	Not Resolved	On-going	69,696 (T)	Verified as SDUO site by ammonia field test and dye test completed on June 3, 2010. Dye testing and CCTV inspection revealed CIPP Lining is recommended.	This section of sewer will be CIPP Lined as recommended in the Jones Falls Sewershed Plan
44	6/17/2010	4501 Schenley Rd.	21210	Stoney Run to Jones Falls	Not Resolved	On-going	101,520 (Т)	06/22/11 dye test by SWMD confirms that violation still exists. A letter will be sent to HCD requesting issuance of a violation notice.	Letter to be sent to HCD/HABC. Field Investigations will continue.

Serial No.	Date of Occurrence	Location	Zip Code	Stream Affected	Date of Resolution (See Note 6 Below)	Duration (Days)	Est. Quantity of Discharge (gallons)	Measures taken to identify Source or Resolve	Future/Planned Work
45	6/23/2010	5015 Greenleaf Rd.	21210	Stoney Run to Jones Falls	Not Resolved	On-going	66,816 (T)	Verified as SDUO site by ammonia field test completed on June 23, 2010. On call consultant detected sewer water in the bottom of SD intel. City recommended further testing be completed. Additional testing was completed consultant is recommending partial replacement of sewer line alor Greenleaf Ave. On September 1, 2011, new manhol was constructed. SWMD reports that dye deployed in the new downstream sanitary MH is showing in the storm water manhole, but not in the inlet box.	
46	6/3/2010	Pulaski Hwy & 62nd Street (Downstream side of Culvert)	21237	Moores Run to Herring Run	Not Resolved	On-going	427,381 (T)	Verified as SDUO site by ammonia field test completed on June 3, 2010. Consultant has determined the source of the sewage infiltration may be from houses in the Battimore City and County. City continues site investigation to confirm the City source and completed record drawings research. City has identified two properties on Manor place with illicit connections Property owner at 1231 62nd st., in City is not being cooperative.	City to continue following up with home owner and if that fails coordinate with HCD to issue letter to help the City to be perform dye test at 1231 62nd street. On call consultant is recommending installation of a new pipe horth o Manor place to allow flow into 30° pipe heading towards Quad Avenue P.S. Continue coordinating with Baltimore County.
48	8/4/2010	3412 - 3418 Glenmore Ave	21214	Moores Run to Herring Run	Not Resolved	On-going	212,688 (T)	On 6/30/2011, the on-call contractor replaced two sanitary house connections on Gilmoure AvenueOn 9/20/2011, test results received from SVMD indicate that the Theodore Ave drain is a target.	On-call contractor will install a new MH on the uncharted pipe entering the Theodore Ave. drain.
51	9/9/2010	Barre St. near Sterrett	21203	Inner Harbor	Not Resolved	On-going	9,985 (A)	Investigation ongoing. Based on current findings, either dye testing must be done at 820 Barre St., or r manhole would have to be built in the sidewalk. The property owner has not responded to UES letter.	UES to contact HCD/HABC for issuance of a violation notice.
52	11/17/2010	39th & University Pkwy	21218	Jones Falls	Not Resolved	On-going	206,708 (T)	Investigation ongoing, the City will need to clean the drain due to blockage, in order to televise.	Have the storm drain cleaned by the on-call contractor and CCTV it.
53	5/12/2011	Dale Rd. at Crest Rd.	21209	Jones Falls	Not Resolved	On-going	20,304 (T)	Inlet was unearthed on 7/19/11 and unidentified pipe was discovered.	On-Call Consultant has recommended that further investigation be performed with a mini- camera.
54	6/21/2011	Cylburn Ave at N. Parkway	21210	Jones Falls	Not Resolved	On-going	145,440 (T)	Sewage is infiltrating the storm entering storm drain at Cylburn Ave. On 7/26/2011, on-call consultant recommneded the sewer line be CIPP lined.	On Call Contractor to perform CIPP lining.

Serial No.	Date of Occurrence	Location	Zip Code	Stream Affected	Date of Resolution (See Note 6 Below)	Duration (Days)	Est. Quantity of Discharge (gallons)	Measures taken to identify Source or Resolve	Future/Planned Work
55	8/9/2011	Mannasota Ave. at Parkside Drive	21206	Herring Run	Not Resolved	On-going		Sewage seeping into storm drain through brick mortar	Under investigation
56		Clifton Road between Fairfax and Westchester Roads	21216	Gwynns Falls	Not Resolved	On-going	36,136 (T)	During field investigation of a 24" drain, an unidentified pipe (18" drain) was found to be carrying flow. A new manhole was constructed on 9/28/2011 to provide access to the 18" drain. The on-call contractor attempted to clean and CCTV from the manhole to the 18" drain but discovered that the pipe was full of debris, roots and broken.	On-call contractor to investigate means of CCTVing and cleaning pipe.
57	8/31/2011	Seabury & Hillview	21225	Patapsco	Not Resolved	On-going	15,487 (T)	Under investigation	Under investigation

SDUO Site is Resolved & Confirmed by Testing

SDUO Site on Private Property

SDUO Summary:

1. Total SDUO Sites Documented: 59

2. Total SDUO Sites Resolved: 32 (54% Complete) 3. Total SDUO Sites on Private Property: 10 4. Total SDUO Sites Unresolved: 27 (46% Open)

5. New SDUO Sites documented in the last Quarter: 3

6. Under the column entitled "Date of Resolution", if the note reads Not Resolved an end date of 9/30/2010 was used to determine the quantity of discharge up to that point.

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

8. (T) - Flow calculated utilizing TKN concentration. (A) - Flow Calculated utilizing Ammonia concentration. The City utimately, plans on calculating flows using TKN - per guidelines of the approve-<u>iorotocol</u> by EPA

