



# **Quarterly Report**

**July 1, 2019  
Through  
September 30, 2019**

Pursuant to Paragraph 19, of the Consent Decree between Baltimore County and the United States Environmental Protection Agency, Department of Justice and the Maryland Department of the Environment

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Pursuant to Paragraph 19 of the Consent Decree between Baltimore County (County) and The United States Environmental Protection Agency (EPA), the Department of Justice (DOJ), and the Maryland Department of the Environment (MDE), this document constitutes the required Quarterly Report for the period **July 1, 2019** through **September 30, 2019**.

The quarterly report discusses activities and progress of Baltimore County towards compliance with the requirements set forth in the Consent Decree including:

- i. Non-Pump Station and Pump Station SSO Structure discharges
- ii. Construction Project Status
- iii. Collection system inspection progress
- iv. SRRR plan implementation progress
- v. FOG program modification and development progress
- vi. Supplemental Environmental Projects status, and
- vii. Compliance with certification of completion and other issues of the Consent Decree

**i. Non-Pump Station and Pump Station SSO Structure Discharges**

Discharges from Sanitary Sewer Overflow Structures took place at the locations and dates during the reporting period as detailed in **Attachment A**.

A summary of flow metering information for Non-Pump Station SSO Structures is included as **Attachment A1**.

**ii. Construction Project Status**

**Attachment B** presents the status of Paragraph 7 – Non-Pump Station SSO Structure Elimination projects and Paragraph 13.F - Pump Station Rehabilitation Repair and Replacement projects that are in design and construction during the reporting quarter.

**iii. Collection System Inspection**

Continued implementation of the inspection of the collection system, pursuant to Paragraph 15 of the Consent Decree.

Paragraph 15.B.i.b inspection status is summarized in **Attachment C**. Baltimore County anticipates completing inspection of the gravity sewer lines identified in Paragraph 15.B.i.b by September 20, 2020.

Continued compliance with all gravity line CCTV inspections within the required 10 working days of the occurrence of an overflow for each SSO that occurred during this reporting period. **Attachment D** details the County's inspection response to each of the overflow that occurred during the reporting period.

**iv. SRRR Plan Implementation/Progress**

The SRRR Plans contain numerous projects in a variety of locations and stages of planning, design and construction. **Attachment E** includes a list of each sewershed and a summary



status of Plan implementation. The implementation of the recommended improvement projects is proceeding; however, acquisition of required rights-of-way and regulatory permits may require a significant period of time thereby resulting in possible delay to complete the construction work.

The County's recommendations in some of the SRRR Plans for meter basins that exhibited excessive I/I and design-storm simulated model-predicted SSOs included the comprehensive rehabilitation of all pipe segments and manholes, increased hydraulic capacity and/or testing and repair of sewer house connections and laterals. Some of the recommended repairs were revised based on design preparation and review of improvement projects. Additionally, some miscellaneous sewer/manhole/lateral repairs that were included in the SRRR Plans may be revised based on a review of the original and updated inspection data.

**v. FOG Program**

The County has completed implementation of the FOG Program Modification Plan.

**vi. SEP Status**

Completed.

**vii. Compliance Issues**

In accordance with Paragraph 19, Item B.vii, the following is a summary of Consent Decree compliance issues.

- a. Consent Decree projects or requirements certified as complete during the reporting period:

Jones Falls SRRR Plan

On September 6, 2019, the County completed implementation of the Jones Falls SRRR Plan. There are 186 assets (i.e. sewers and manholes), which represent approximately 11-percent of the total assets with repair recommendations, that remain outstanding and are awaiting completion of the necessary construction/maintenance work. On 11/17/2015 and 5/17/2018, the County submitted potential delay notifications for two sewer structural repair and rehabilitation projects. On 7/12/2019 the County submitted time extension requests for the delayed projects.

- b. Consent Decree requirements due to be completed during the reporting period, but not completed:

None.

- c. Problems that may prevent the County from meeting future Consent Decree compliance deadlines:



Bread and Cheese SRRR Plan

On July 10, 2019 the County submitted a potential delay notification for the Bread and Cheese Sewershed Rehabilitation Project.

Texas SRRR Plan

On July 10, 2019 the County submitted a potential delay notification for the Cockeysville and Texas Sewershed Rehabilitation Project.

Elimination of Non-Pump Station SSO Structures 22, 23A, 23B, 24

Notice to proceed for Phase I contract was 9/3/2019. County to submit a formal SSO elimination time extension request when a date has been identified. Right of Way and Environmental Permits required for Phase II contract.

Elimination of Non-Pump Station SSO Structures 41 and 129

Sewer relief construction project awarded on 10/3/2019.

Elimination of Non-Pump Station SSO Structures 113, 116, 117 and 118

The County continues to meet and coordinate with Baltimore City to complete the needed hydraulic improvements to the downstream collection system, which is maintained by the City.

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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 is, to the best of my knowledge and belief, true, accurate, and complete.

\_\_\_\_\_  
Thomas Kiefer, PE  
Chief, Bureau of Engineering and Construction

Control Document No. 272



## Attachment A - Discharges from Overflow Structures



**Pump Station Overflow Structures**

None

**Non-Pump Station Overflow Structures – Metered**

<b>Name</b>	Southern Cross
<b>SSO ID</b>	23B
<b>Address</b>	3909 Southern Cross Drive
<b>Date of Discharge</b>	7/4/2019
<b>Duration of Overflow</b>	42 Min.
<b>Date of Relevant Weather Conditions</b>	7/4/2019
<b>Description of Relevant Weather Conditions</b>	Rain
<b>Net Gallons Discharged</b>	431
<b>Receiving Waters</b>	Gwynns Falls
<b>Identified Cause</b>	Insufficient wet weather hydraulic capacity
<b>Details of Corrective Action Taken or Planned</b>	Notice to proceed for Phase I contract was 9/3/2019. County to submit a formal SSO elimination time extension request when a date has been identified. Right of Way and Environmental Permits required for Phase II contract.

<b>Name</b>	Southern Cross
<b>SSO ID</b>	23B
<b>Address</b>	3909 Southern Cross Drive
<b>Date of Discharge</b>	7/8/2019
<b>Duration of Overflow</b>	1 Hrs. 36 Min.
<b>Date of Relevant Weather Conditions</b>	7/8/2019
<b>Description of Relevant Weather Conditions</b>	Rain
<b>Net Gallons Discharged</b>	12,288
<b>Receiving Waters</b>	Gwynns Falls
<b>Identified Cause</b>	Insufficient wet weather hydraulic capacity
<b>Details of Corrective Action Taken or Planned</b>	Notice to proceed for Phase I contract was 9/3/2019. County to submit a formal SSO elimination time extension request when a date has been identified. Right of Way and Environmental Permits required for Phase II contract.



<b>Name</b>	Patterson Avenue
<b>SSO ID</b>	24
<b>Address</b>	3902 Patterson Avenue
<b>Date of Discharge</b>	7/8/2019
<b>Duration of Overflow</b>	2 Hrs. 49 Min.
<b>Date of Relevant Weather Conditions</b>	7/8/2019
<b>Description of Relevant Weather Conditions</b>	Rain
<b>Net Gallons Discharged</b>	40,770
<b>Receiving Waters</b>	Gwynns Falls
<b>Identified Cause</b>	Insufficient wet weather hydraulic capacity
<b>Details of Corrective Action Taken or Planned</b>	Notice to proceed for Phase I contract was 9/3/2019. County to submit a formal SSO elimination time extension request when a date has been identified. Right of Way and Environmental Permits required for Phase II contract.

<b>Name</b>	Southern Cross Drive
<b>SSO ID</b>	23A
<b>Address</b>	Southern Cross Drive & Parsons Avenue
<b>Date of Discharge</b>	7/11/2019
<b>Duration of Overflow</b>	2 Hrs. 25 Min.
<b>Date of Relevant Weather Conditions</b>	7/11/2019
<b>Description of Relevant Weather Conditions</b>	Rain
<b>Net Gallons Discharged</b>	1,956
<b>Receiving Waters</b>	Gwynns Falls
<b>Identified Cause</b>	Insufficient wet weather hydraulic capacity
<b>Details of Corrective Action Taken or Planned</b>	Notice to proceed for Phase I contract was 9/3/2019. County to submit a formal SSO elimination time extension request when a date has been identified. Right of Way and Environmental Permits required for Phase II contract.

<b>Name</b>	Southern Cross
<b>SSO ID</b>	23B
<b>Address</b>	3909 Southern Cross Drive
<b>Date of Discharge</b>	7/11/2019
<b>Duration of Overflow</b>	2 Hrs. 31 Min.
<b>Date of Relevant Weather Conditions</b>	7/11/2019
<b>Description of Relevant Weather Conditions</b>	Rain
<b>Net Gallons Discharged</b>	2,457
<b>Receiving Waters</b>	Gwynns Falls
<b>Identified Cause</b>	Insufficient wet weather hydraulic capacity
<b>Details of Corrective Action Taken or Planned</b>	Notice to proceed for Phase I contract was 9/3/2019. County to submit a formal SSO elimination time extension request when a date has been identified. Right of Way and Environmental Permits required for Phase II contract.





<b>Name</b>	Patterson Avenue
<b>SSO ID</b>	24
<b>Address</b>	3902 Patterson Avenue
<b>Date of Discharge</b>	7/11/2019
<b>Duration of Overflow</b>	1 Hrs. 13 Min.
<b>Date of Relevant Weather Conditions</b>	7/11/2019
<b>Description of Relevant Weather Conditions</b>	Rain
<b>Net Gallons Discharged</b>	22,701
<b>Receiving Waters</b>	Gwynns Falls
<b>Identified Cause</b>	Insufficient wet weather hydraulic capacity
<b>Details of Corrective Action Taken or Planned</b>	Notice to proceed for Phase I contract was 9/3/2019. County to submit a formal SSO elimination time extension request when a date has been identified. Right of Way and Environmental Permits required for Phase II contract.

<b>Name</b>	Aiken Avenue
<b>SSO ID</b>	41
<b>Address</b>	7829 Aiken Avenue & Taylor Avenue
<b>Date of Discharge</b>	7/11/2019
<b>Duration of Overflow</b>	2 Hrs. 47 Min.
<b>Date of Relevant Weather Conditions</b>	7/11/2019
<b>Description of Relevant Weather Conditions</b>	Rain
<b>Net Gallons Discharged</b>	69,357
<b>Receiving Waters</b>	Herring Run
<b>Identified Cause</b>	Insufficient wet weather hydraulic capacity
<b>Details of Corrective Action Taken or Planned</b>	Sewer relief construction project awarded on 10/3/2019.

<b>Name</b>	Queen Anne Drive
<b>SSO ID</b>	129
<b>Address</b>	Queen Anne Drive & Hillcrest Avenue
<b>Date of Discharge</b>	7/11/2019
<b>Duration of Overflow</b>	3 Hrs. 11 Min.
<b>Date of Relevant Weather Conditions</b>	7/11/2019
<b>Description of Relevant Weather Conditions</b>	Rain
<b>Net Gallons Discharged</b>	57,850
<b>Receiving Waters</b>	Herring Run
<b>Identified Cause</b>	Insufficient wet weather hydraulic capacity
<b>Details of Corrective Action Taken or Planned</b>	Sewer relief construction project awarded on 10/3/2019.



<b>Name</b>	Queen Anne Drive
<b>SSO ID</b>	129
<b>Address</b>	Queen Anne Drive & Hillcrest Avenue
<b>Date of Discharge</b>	8/22/2019
<b>Duration of Overflow</b>	31 Min.
<b>Date of Relevant Weather Conditions</b>	8/22/2019
<b>Description of Relevant Weather Conditions</b>	Rain
<b>Net Gallons Discharged</b>	567
<b>Receiving Waters</b>	Herring Run
<b>Identified Cause</b>	Insufficient wet weather hydraulic capacity
<b>Details of Corrective Action Taken or Planned</b>	Sewer relief construction project awarded on 10/3/2019.

<b>Name</b>	Marnat Road
<b>SSO ID</b>	113
<b>Address</b>	Marnat Road & Hatton Road
<b>Date of Discharge</b>	7/11/2019
<b>Duration of Overflow</b>	2 Hrs. 1 Min.
<b>Date of Relevant Weather Conditions</b>	7/11/2019
<b>Description of Relevant Weather Conditions</b>	Rain
<b>Net Gallons Discharged</b>	3,236
<b>Receiving Waters</b>	Jones Falls
<b>Identified Cause</b>	Insufficient wet weather hydraulic capacity
<b>Details of Corrective Action Taken or Planned</b>	City hydraulic improvements needed to eliminate overflow. County is coordinating with the City to complete needed improvements.



**Attachment A1: Summary of Non-Pumping Station Overflow Structure Monitoring**

Date of Rain Event		7/4/2019	7/8/2019	7/11/2019	8/22/2019
Rain (inches)		0.45	2.18	2.55	1.33
SSO Name	SSO ID	Overflow Volume (gallons)			
Southern Cross Drive	23A			1,956	
Southern Cross	23B	431	12,288	2,457	
Patterson Avenue	24		40,770	22,701	
Aiken Avenue	41			69,357	
Queen Anne Drive	129			57,850	567
Marnat Road	113			3,236	



## **Attachment B - Construction Projects Status**



## Non-Pump Station SSO Structures

Project Name	Date of Construction Notice to Proceed	Sewershed Name	Consent Decree SSO Elimination Deadline	SSO Eliminated	Status
Powder Mill Interceptor Relief Sewer Phase I – SXO 18180 (SSOs 22, 23A, 23B, 24)	-	Gwynns Falls	TBD	No	Contract notice to proceed was 9/3/2019. EPA approved the County's SSO extension of time request on 4/16/2018
Powder Mill Interceptor Relief Sewer Phase II (SSOs 22, 23A, 23B, 24)	-	Gwynns Falls	TBD	No	This project requires Right of Entry and permit approval from Baltimore City Department of Recreation and Parks. EPA approved the County's SSO extension of time request on 4/16/2018
East Branch Herring Run Relief Sewer (SSO 41 & 129)	-	Herring Run	TBD	No	EPA approved the County's SSO extension of time request



## Pump Station Rehabilitation, Repair and Replacement

Project Name	Consent Decree Deadline	Anticipated Meeting CD Deadline	Comments
Harewood Park	3/20/2020	Yes	Construction
Campus Hill	3/20/2020	Yes	Construction
Rettman's Lane	3/20/2020	Yes	Construction. Substantially complete 8/22/2019
Lodge Forest Manor	3/20/2020	Yes	Design. Potential delay notification submitted on 11/9/2017.
Stansbury Manor	3/20/2020	Yes	Design. Potential delay notification submitted on 11/9/2017.
Blenhurst	3/20/2020	Yes	Construction
Rosebank	3/20/2020	Yes	Construction
Beachwood Road	3/20/2020	Yes	Construction. Time Extension Request submitted 5/7/2019.
Oliver Beach	3/20/2020	Yes	Construction. Potential delay notification submitted on 9/17/2018.
Hyde Park	6/1/2021	Yes	Design
Bauernschmidt Manor	6/1/2021	Yes	Construction
Turkey Point	6/1/2022	Yes	Design
Millers Island	6/1/2022	Yes	Design
Corsica	6/1/2023	Yes	Design
Fort Howard	6/1/2023	Yes	Design
Pennwood Terrace	6/1/2023	Yes	Design



## **Attachment C - Collection System Inspection Status**



Paragraph 15.B.i (b)  
 Completion scheduled for September 20, 2020  
 Currently On-Schedule

Miles Remaining Beginning of Quarter	Miles Inspected and/or Attempted this Quarter	Miles Attempted but not Completed to Date	Miles Remaining
7.0	0.2	2.1	6.8
Appurtenances to be Inspected Beginning of Quarter	Appurtenances Inspected and/or Attempted this Quarter	Appurtenances Attempted but not Completed to Date	Appurtenances Remaining
39	0	31	39

Note: All values are based on the current version of the County's GIS





## **Attachment D - CCTV in Response to an SSO**



Date of SSO	Location	CCTV Inspection Date	Exemption
7/4/2019	3909 Southern Cross Drive		D
7/8/2019	3909 Southern Cross Drive		D
7/8/2019	3902 Patterson Avenue		D
7/11/2019	Southern Cross Drive & Parsons Avenue		D
7/11/2019	3909 Southern Cross Drive		D
7/11/2019	3902 Patterson Avenue		D
7/11/2019	7829 Aiken Avenue & Taylor Avenue		D
7/11/2019	Queen Anne Drive & Hillcrest Avenue		D
7/11/2019	Marnat Road & Hatton Road		D
8/9/2019	1000 Lakeside Drive	8/13/2019	
8/22/2019	Queen Anne Drive & Hillcrest Avenue		D
9/3/2019	7929 Eastern Avenue	9/11/2019	

Allowable Exemptions:

- A. The cause of the SSO was a blockage in a County-owned lateral adjacent to the gravity line segment and the County cleans the County-owned lateral
- B. The cause of the SSO was a blockage in the gravity line segment and visible directly from the manhole
- C. The County has previously CCTV inspected the line segment(s) due to an earlier blockage and the County is in the process of developing or implementing corrective action
- D. The location is an identified overflow structure and is being monitored pursuant to Paragraph 7.C and the County is involved in a process designed to eliminate the overflow structure



## **Attachment E - Status of SRRR Plan Implementation**



<b>Sewershed</b>	<b>Consent Decree Deadline</b>	<b>On Schedule to Complete SRRR Plan Implementation</b>
Bengies	9/29/2020	Yes. On 3/15/2019 the County submitted a potential delay notification for sewer structural repair and rehabilitation projects.
Bird River	9/29/2020	Yes. On 3/15/2019 the County submitted a potential delay notification for sewer structural repair and rehabilitation projects.
Bread & Cheese	9/29/2020	On 7/10/2019 the County submitted a potential delay notification for sewer structural repair and rehabilitation projects.
Cockeysville	9/29/2020	Yes. On 3/15/2019 the County submitted a potential delay notification for sewer structural repair and rehabilitation projects.
Dead Run	9/6/2017	Completed
Delmar	4/18/2022	Yes
Duck Creek	4/18/2022	Yes
Dundalk	4/18/2022	Yes
East Point	4/18/2022	Yes
Essex	4/18/2022	Yes
Gray Manor	4/18/2022	Yes. On 6/19/2019 the County submitted a potential delay notification for a relief sewer project.
Gunpowder	4/18/2026	Yes
Gwynns Falls	9/6/2018	Completed; On 04/08/2016 and 01/23/2018, the County submitted potential delay notifications for a relief sewer and a structural rehabilitation project.
Herring Run	9/6/2018	Completed; On 11/03/2015, 08/15/2017 and 03/08/2018, the County submitted potential delay notifications for two relief sewers and a structural rehabilitation project.
Jones Falls	9/6/2019	Completed. On 11/17/2015 and 5/17/2018, the County submitted potential delay notifications for two sewer structural repair and rehabilitation projects. On 7/12/2019 the County submitted a time extension requests for the two delayed projects.
Long Quarter	4/18/2024	Yes
Orems	9/29/2020	Yes. On 11/16/2018 the County submitted a potential delay notification for a force main replacement project.
Patapsco	9/6/2021	Yes. On 10/28/2018 and 4/22/2019 the County submitted a potential delay notifications for sewer structural repair and rehabilitation projects.
Redhouse Run	4/18/2024	Yes
Stemmers Run	9/6/2024	Yes
Texas	4/18/2022	On 7/10/2019 the County submitted a potential delay notification for sewer structural repair and rehabilitation projects.
Tributary 26	2/11/2020	Completed
Tributary 27	9/6/2017	Completed
Tributary 43	2/11/2020	Completed
Tributary 48	9/6/2017	Completed
Tributary 78	2/11/2020	Completed
West Low Level	9/6/2017	Completed
Whitemarsh	4/18/2024	Yes

