



JOHN A. OLSZEWSKI, JR.
County Executive

D'ANDREA WALKER, Acting Director
Department of Public Works and Transportation

August 13, 2021

Ms. Amanda Pruzinsky
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QUARTERLY REPORT – SECOND QUARTER 2021
CONSENT DECREE CIVIL NO: AMD 05-2028
(Reference DOJ Case No. 90-5-1-1-4402/2)

Enclosed you will find our submittal of the referenced Quarterly Report. This is to advise that we have submitted this report by the due date as required by Chapter VI, REPORTING REQUIREMENTS, Section 19. A. of the Decree.

Please advise us of any questions you may have regarding this report.

Sincerely,

A handwritten signature in blue ink that reads "Lisa K. Cukholsky".

fa Jeffrey S. Peluso, PE
Chief, Bureau of Engineering and Construction

JP:mk

Enclosure: Quarterly Report



Quarterly Report

**April 1, 2021
Through
June 30, 2021**

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 **April 1, 2021** through **June 30, 2021**.

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
- iv. SRRR plan implementation/progress
- v. FOG program
- vi. Supplemental Environmental Project status, and
- vii. Compliance issues

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 13F - Pump Station Rehabilitation Repair and Replacement projects that are in design and construction during the reporting quarter.

iii. Collection System Inspection

The County has completed all gravity sewer line inspections required under Paragraphs 8 and 15 of the Consent Decree. The County continues 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 C** 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 D** 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. Supplemental Environmental Project 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 Performance Assessment Report

On June 3, 2021, the County submitted the Performance Assessment Report for the Jones Falls SRRR Plan.

Texas Pump Station Action Plan

On May 26, 2021, pump shutdown at the Texas Pump Station resulted in an SSO discharge of 213,000 gallons. A post-SSO analysis indicated intermittent power disruption of the primary pump station electrical feed, which caused the pumps to shut down and resulted in the SSO discharge. It is suspected that the power disruption was of such short duration that the station automatic transfer switch did not activate the secondary power feed. Since the separate and redundant power supply is the County- and MDE-approved backup power for this pump station, a plan to prevent further SSOs at the Texas Pump Station due to power outages is not needed.

Lodge Forest Pump Station Action Plan

As summarized in the County's June 22, 2021 plan to prevent further SSOs at the Lodge Forest Pump Station, on June 14, 2021, pump shutdown at the Lodge Forest Pump Station resulted in a sanitary sewer overflow (SSO) discharge of 83,000 gallons. County staff were alerted to possible station equipment failure and were dispatched to the station to inspect the equipment. When they arrived at the station, it appeared that the station's electrical power was functioning; however, none of the variable frequency drives (VFD) would operate. A crew chief was dispatched to the station and determined that the generator breaker located in the master control center had tripped; thereby preventing the generator from powering the station. The generator breaker was manually reset and the VFDs began operating as normal. A post-SSO analysis indicated that a possible power surge of the electrical feed disrupted power to the pump station and one of the three phases was faulted. The phase failure prevented the VFD's from operating until the generator breaker was reset so that the generator could power the station.



The County could not replicate the generator breaker trip and no other stations have experienced similar generator breaker tripping issues. As a preventive measure, the County will complete additional electrical training for pump station crews to improve station shutdown response. Since the station has a County- and MDE-approved backup power source and the generator breaker fault that resulted in the June 14, 2021 SSO could not be replicated and has not been experienced at other stations, a plan to prevent further SSOs at the Lodge Forest Pump Station due to power outages is not needed.

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

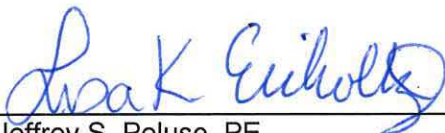
None.

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

Lodge Forest Pump Station Rehabilitation

On June 4, 2021, the County submitted a revised time extension request to complete improvements to the Lodge Forest Pump Station. Based on communication from the Maryland Aviation Administration, the requested revised consent decree deadline is October 20, 2023.

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.

for 

Jeffrey S. Peluso, PE
Chief, Bureau of Engineering and Construction

Control Document No. 363



Attachment A - Discharges from Overflow Structures



Pump Station Overflow Structures

Name	Texas
Address	10320 York Road
Date Of Discharge	05/26/2021
Duration Of Overflow	42 Min.
Date Of Relevant Weather Conditions	05/26/2021
Description Of Relevant Weather Conditions	Rain
Gallons Discharged	213,000
Receiving Waters	Beaver Dam Run
Identified Cause	Power surges during storm caused all VFDs to fail resulting in pumps locking out.
Details Of Corrective Action Taken or Planned	VFDs were reset and put back online.

Name	Lodge Forest
Address	2315 Lodge Forest Road
Date Of Discharge	06/14/2021
Duration Of Overflow	1 Hr. 20 Mins.
Date Of Relevant Weather Conditions	06/14/2021
Description Of Relevant Weather Conditions	Rain
Gallons Discharged	83,000
Receiving Waters	North Point Creek
Identified Cause	Disruption of the primary pump station electrical feed and backup generator breaker was tripped.
Details Of Corrective Action Taken or Planned	The generator breaker was reset.

Non-Pump Station Overflow Structures – Metered

Name	Aiken Avenue
SSO ID	41
Address	7829 Aiken Avenue & Taylor Avenue
Date of Discharge	6/10/2020
Duration of Overflow	3 Hr.
Date of Relevant Weather Conditions	6/10/2020
Description of Relevant Weather Conditions	Rain
Net Gallons Discharged	46,525
Receiving Waters	Herring Run
Identified Cause	Insufficient wet weather hydraulic capacity.
Details of Corrective Action Taken or Planned	On 4/27/2020 the County submitted a Time Extension Request to eliminate the overflow structure by 8/3/2023.



Name	Queen Anne Drive
SSO ID	129
Address	Queen Anne Drive & Hillcrest Avenue
Date of Discharge	6/10/2020
Duration of Overflow	3 Hrs. 7 Mins.
Date of Relevant Weather Conditions	6/10/2020
Description of Relevant Weather Conditions	Rain
Net Gallons Discharged	78,101
Receiving Waters	Herring Run
Identified Cause	Insufficient wet weather hydraulic capacity
Details of Corrective Action Taken or Planned	County submitted time extension request to eliminate overflow structure by 8/3/2023.

Name	Aiken Avenue
SSO ID	41
Address	7829 Aiken Avenue & Taylor Avenue
Date of Discharge	6/11/2020
Duration of Overflow	4 Hr. 57 Mins.
Date of Relevant Weather Conditions	6/11/2020
Description of Relevant Weather Conditions	Rain
Net Gallons Discharged	43,688
Receiving Waters	Herring Run
Identified Cause	Insufficient wet weather hydraulic capacity.
Details of Corrective Action Taken or Planned	On 4/27/2020 the County submitted a Time Extension Request to eliminate the overflow structure by 8/3/2023.

Name	Queen Anne Drive
SSO ID	129
Address	Queen Anne Drive & Hillcrest Avenue
Date of Discharge	6/11/2020
Duration of Overflow	5 Hrs. 34 Mins.
Date of Relevant Weather Conditions	6/11/2020
Description of Relevant Weather Conditions	Rain
Net Gallons Discharged	67,196
Receiving Waters	Herring Run
Identified Cause	Insufficient wet weather hydraulic capacity
Details of Corrective Action Taken or Planned	County submitted time extension request to eliminate overflow structure by 8/3/2023.



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

Date of Rain Event		6/10/2021	6/11/2021
Rain (inches)		1.63"	2.20"
SSO Name	SSO ID		
Alter Road	22		
Southern Cross Drive	23A		
Southern Cross	23B		
Patterson Avenue	24		
Aiken Avenue	41	46,525	43,688
Marnat Road	113		
Queen Anne Drive	129	78,101	67,196



Attachment B - Construction Projects Status



Non-Pump Station SSO Structures

Project Name	Date of Construction Notice to Proceed	Sewershed Name	Original Consent Decree Elimination Date	Consent Decree SSO Elimination Date	SSO Eliminated	Status
Powder Mill Interceptor Relief Sewer Phase I – 18180 SX0 (SSOs 22, 23A, 23B, 24)	9/3/2019	Gwynns Falls	3/22/2017	TBD	No	A Time Extension Request with an undefined elimination date was submitted on 2/14/2017. A second Time Extension Request with a definitive SSO elimination date will be submitted after right-of-way acquisition, environmental permits obtained and construction notice to proceed is issued for Phase II construction. This project is achieved functional use on 1/26/2021.
Powder Mill Interceptor Relief Sewer Phase II (SSOs 22, 23A, 23B, 24)	-	Gwynns Falls	3/22/2017	TBD	No	A Time Extension Request with an undefined SSO elimination date was submitted on 2/14/2017. A second time extension request with definitive SSO elimination date will be submitted after right-of-way acquisition, environmental permits obtained and construction notice to proceed is issued for Phase II construction.
East Branch Herring Run Relief Sewer – 14117 SX0 (SSO 41 & 129)	2/5/2020	Herring Run	3/20/2018	8/3/2023 (requested)	No	On 4/27/2020 the County submitted a Time Extension Request to eliminate the overflow structure by 8/3/2023. This project is 42% complete.
Elimination of SSOs 116, 117, and 118	-	West Low Level	9/20/2016	TBD	No	On 6/22/2016, the County submitted a Time Extension Request with an undefined SSO elimination date. A second Time Extension Request with a definitive SSO elimination date will be submitted after the City shares with the County their proposed downstream corrective actions and construction schedule. 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.
Elimination of SSO 113	-	Jones Falls	9/20/2016	TBD	No	



Pump Station Rehabilitation, Repair and Replacement

Project Name	Original Consent Decree Deadline	Project Phase	Time Extension Request Submittal Date	Requested Deadline Date	Reason for Delay
Lodge Forest Manor	3/20/2020	Design (RoW)	1/30/2020	3/20/2025	DNR easement acquisition.
Stansbury Manor	3/20/2020	Design (Permit)	3/31/2021	4/20/2024	MAA property acquisition.
Hyde Park	6/1/2021	Construction			
Millers Island	6/1/2022	Construction			
Turkey Point	6/1/2022	Construction			
Penwood Terrace	6/1/2023	Construction			
Corsica	6/1/2023	Design			
Fort Howard	6/1/2023	Design			



Attachment C - CCTV in Response to an SSO



Date of SSO	Location	CCTV Inspection Date	Exemption
4/27/2021	626 Hasting Road	5/5/2021	
5/14/2021	500 Compass Road	5/14/2021	
6/10/2021	7829 Aiken Avenue & Taylor Avenue		D
6/10/2021	Queen Anne Drive & Hillcrest Avenue		D
6/11/2021	7829 Aiken Avenue & Taylor Avenue		D
6/11/2021	Queen Anne Drive & Hillcrest Avenue		D
6/11/2021	2407 Cub Hill Road		B
6/23/2021	10803 Falls Road		B

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 D - Status of SRRR Plan Implementation



Sewershed	Original Consent Decree Deadline	Date of Potential Delay Notification	Reason for Delay	Comments
Patapsco	9/6/2021	10/28/2018	Right of entry acquisition	
Delmar	4/18/2022	11/22/2019	Right of entry acquisition	
Duck Creek	4/18/2022	2/5/2020	Expanded project scope	
Dundalk	4/18/2022	11/22/2019	Right of entry acquisition	
East Point	4/18/2022	11/22/2019	Right of entry acquisition	
Essex	4/18/2022	12/10/2019	Right of entry acquisition/permits	
Gray Manor	4/18/2022	6/19/2019	State and Local Permitting	
Texas	4/18/2022	7/10/2019	Right of entry acquisition	
Longquarter	4/18/2024	11/26/2019	Right of entry acquisition	
Redhouse Run	4/18/2024			
Whitemarsh	4/18/2024			
Stemmers Run	9/6/2024			
Gunpowder	4/18/2026			
Substantially completed SRRR Plan implementations ¹				
Bird River	9/29/2020	3/15/2019	Right of entry acquisition	There are 3 assets (i.e. sewer and manholes) which represents approximately 60 percent of the total assets with structural repair recommendations that remain outstanding and are awaiting completion of right of entry acquisition. The County will submit to EPA and MDE a time of performance extension request when all right of entry agreements have been acquired and the County has issued the construction contract notice to proceed. The outstanding structural repairs have no effect on the performance of the collection system.



Bread & Cheese	9/29/2020 (Requested date: 3/6/2022)	5/28/2020 (Time extension request)	Right of entry acquisition	There are 127 asset (i.e. sewer and manholes) which represents approximately 100 percent of the total assets with structural repair recommendations that remain outstanding. Notice to Proceed was February 27, 2021. The outstanding structural repairs have no effect on the performance of the collection system.
Bengies	9/29/2020	3/15/2019	Right of entry acquisition	There are 96 assets (i.e. sewer and manholes) which represents approximately 100 percent of the total assets with structural repair recommendations that remain outstanding and are awaiting completion of right of entry acquisition. The County will submit to EPA and MDE a time of performance extension request when all right of entry agreements have been acquired and the County has issued the construction contract notice to proceed. The outstanding structural repairs have no effect on the performance of the collection system.
Cockeysville	9/29/2020	3/15/2019	Right of entry acquisition	There are 12 assets (i.e. sewer and manholes) which represents approximately 57 percent of the total assets with structural repair recommendations that remain outstanding and are awaiting completion of right of entry acquisition. The County will submit to EPA and MDE a time of performance extension request when all right of entry agreements have been acquired and the County has issued the construction contract notice to proceed. The outstanding structural repairs have no effect on the performance of the collection system.
Dead Run	9/6/2017			Substantially completed; termination certification submitted May 18, 2021.
Gwynns Falls	9/6/2018	2/14/2017	Right of way acquisition	On September 6, 2018, the County certified substantial completion for the implementation of the Gwynns Falls Sewershed SRRR Plan with the exception of 23 structural repairs for which a potential delay was submitted to EPA and MDE. The outstanding structural repairs have no effect on the performance of the collection system. To date, 6 repairs remain outstanding and were completed with the Powder Mill Interceptor Phase 1 project, which achieved functional use on January 26, 2021.



Herring Run	9/6/2018	8/15/2017 3/6/2018	Right of entry acquisition	There are 93 assets (i.e. sewer and manholes) which represents approximately 6 percent of the total assets with structural repair recommendations that remain outstanding and are awaiting completion of right of entry acquisition. Two of these properties have entered the condemnation process. The County will submit to EPA and MDE a time of performance extension request when all right of entry agreements have been acquired and the County has issued the construction contract notice to proceed. The outstanding structural repairs have no effect on the performance of the collection system.
Jones Falls	9/6/2019		Right of entry acquisition	There are 10 assets (i.e. sewer and manholes) which represents approximately 0.6 percent of the total assets with structural repair recommendations that remain outstanding and are awaiting completion of right of entry acquisition. The County will submit to EPA and MDE a time of performance extension request when all right of entry agreements have been acquired and the County has issued the construction contract notice to proceed. The outstanding structural repairs have no effect on the performance of the collection system.
Orems	9/29/2020	11/22/2019	Right of entry acquisition	Design is complete for the Orems Basin 3 Relief Sewer. Contract 21144SX0 was awarded May 25, 2021. An accurate Time Extension request will be submitted once the County receives a schedule from the successful contractor.
Tributary 26	2/11/2020			Substantially completed; termination certification submitted May 18, 2021.
Tributary 27	9/6/2017			Substantially completed; termination certification submitted May 18, 2021.
Tributary 43	2/11/2020			Substantially completed; termination certification submitted May 18, 2021.
Tributary 48	9/6/2017			Substantially completed; termination certification submitted May 18, 2021.
Tributary 78	2/11/2020			Substantially completed; termination certification submitted May 18, 2021.
West Low Level	9/6/2017			Substantially completed

¹ Substantial completion, as defined in Paragraph IV, Item CC of the Consent Decree means, the date, as certified by the Engineer in charge of a construction project, when the construction project or specified part thereof is sufficiently completed, in accordance with the contract documents, such that the project or specified part thereof can be used to accomplish the purposes for which it was intended.

