

Clean Water 2020 Program

CONSENT DECREE QUARTERLY REPORT

July 1, 2024 – September 30, 2024



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Section 1 Introduction

1.1 Summary of Reporting Requirements

On May 21, 2014, the City of Columbia (City) entered into a Consent Decree (CD) with the United States Environmental Protection Agency (EPA), the United States Department of Justice (DOJ) and the South Carolina Department of Health and Environmental Control (now known as the South Carolina Department of Environmental Services and hereinafter referred to as SCDES). To fulfill the reporting requirements as defined in Section IX.39.a of the CD, the City has prepared this *Quarterly Report* that includes the following information (as excerpted from the CD):

1. A description of all projects and activities conducted during the most recently completed calendar quarter to comply with the requirements of this Consent Decree, in Gantt chart or similar format. This description shall include completion percentages of early action capital improvement projects under Paragraph 10, continuing sewer assessments under the CSAP, and the subsequent remedial actions under the IR Report;
2. The date, time, location, source, duration, estimated volume, receiving water (if any), cause, and actions taken to repair or otherwise resolve the cause of all SSOs for the most recently completed quarter in a tabulated electronic format;
3. The anticipated projects and activities that will be performed in the next quarter to comply with the requirements of this Consent Decree, in Gantt chart or similar format;
4. Any additional information that demonstrates that Columbia is implementing the remedial measures required in this Consent Decree

1.2 Report Organization

This Quarterly Report is organized as follows:

Section 1 – Introduction

This section includes a summary of the reporting requirements and describes the report organization.

Section 2 – Schedule of Projects and Activities

This section addresses the requirements of Sections IX.39.a.(i) and IX.39.a.(iii) of the Consent Decree. The section includes the projects and activities conducted during the most recently completed calendar quarter to comply with the requirements of the CD as well as the anticipated projects and activities that will be performed in the next quarter to comply with the requirements of the CD. A Gantt chart schedule of these activities is provided and includes completion percentages of remedial actions under the IR Report, as applicable.

Section 3 – Additional Information Demonstrating Implementation of Consent Decree Requirements

This section addresses the requirements of Section IX.39.a.(iv) of the Consent Decree and includes additional information that demonstrates that Columbia is implementing the remedial measures required in the CD. Information supplemental to that which is provided in Section 2 is provided in this section.

Section 4 – Quarterly SSO Report

This section addresses the requirements of Section IX.39.a.(ii) of the Consent Decree and provides a tabular listing of sanitary sewer overflows (SSOs). The table includes the date, time, location, source, duration, estimated volume, receiving water (if any), cause, and actions taken to repair or otherwise resolve the cause of all SSOs that occurred during the most recently completed calendar quarter.

CITY OF COLUMBIA		CITY OF COLUMBIA, S.C. - Clean Water 2020 Program 2024 Quarterly Report - 3rd Quarter		Clean Water 2020 Columbia's Clear Vision for Clean Water				
Task Name		Jul	Qtr 3, 2024 Aug	Sep	Oct	Nov	Dec	
SS753904 Pipe Bursting Major Pipe Rehabilitation	Design				95%			
SS7555 Lower Crane Creek Relief Sewer Phase 2	Design				30%			
SS7560 Lower Crane Creek Equalization Storage	Construction			2%				
SS7562 Gills Creek Relief Sewer Phase 1	Design				90%			
SS7564 West Columbia PS 2020 Upgrades	Construction			99%				
SS7565 Lower Kinley Creek Sewer Improvements	Construction							
SS7568 Saluda River Force Main Extension Phase 1	Construction				80%			
SS7568 Saluda River Force Main Extension Phase 2	Design				60%			
SS7589 Broad River Force Main Replacement and Gravity Sewer Capacity Improvements	Design				95%			
Supplemental IR Report								
Supplemental Infrastructure Rehabilitation Projects								
SS6786 Annual Gravity Sewer Manhole Lining and Replacement - FY2024	Construction				30%			
SS6966 Annual Rehab on Lines less than 15" - FY2025	Construction			15%				
SS7435 Wexford and Windsong Lift Stations Evaluation and Rehabilitation Project	Construction				45%			
CD Plan Development								
CD Implementation								

CITY OF COLUMBIA, S.C. - Clean Water 2020 Program 2024 Quarterly Report - 3rd Quarter									
Task Name	Qtr 3, 2024			Qtr 4, 2024			Dec		
	Jul	Aug	Sep	Oct	Nov				
SS7437 Miscellaneous Lift Station Improvements and Backup Power Addition Project									
Construction							20%		
SS7462 Investigation of Crockett Road, Atlas Road and Versch Lock Lift Station									
Design							85%		
SS7463 SSES and Sewer Rehabilitation Implementation CC01									
Design							100%		
SS7464 Sewer System Evaluation Study and Sewer Rehabilitation Implementation CC02 and CC04									
Construction							45%		
SS7478 RB01 SSES - Phase 2									
Design							95%		
SS7479 SB02 SSES - Phase 2									
Design							95%		
SS7497 Mill Creek PS Misc. Improvements									
Design							95%		
SS753501 Olympia Sewer Relocation and Rehabilitation									
Design							99%		
SS753502 Olympia Sewer Relocation and Rehabilitation									
Design							85%		
SS7549 Woodlands Force Main Replacement									
Construction							100%		
SS7554 Harbison #4 Pump Station Improvements and Force Main Replacement									
Design							30%		
SS7583 SR02 and BR04 Engineer Led Find and Fix Rehabilitation									
Construction							95%		
SS7615 Broad River PS Miscellaneous Improvements									
Construction							5%		

CD Plan Development

CD Implementation

Design Phase

Construction Phase

Professional Services

City Forces

Section 3 Additional Information

Demonstrating Implementation of Consent Decree Requirements

In accordance with Section IX.39.a.(iv) of the CD, the following section provides additional information that demonstrates that the City is implementing the remedial measures required in the CD.

The City notified the U.S. Department of Justice, the U.S. Environmental Protection Agency, and the South Carolina Department Environmental Services of a *force majeure* event starting on March 13, 2020. On this date, the Governor of South Carolina declared a state of emergency based on a determination that COVID-19 posed an imminent public health emergency for the State, and on March 17, 2020 the Mayor and City Council declared a local state of emergency in the City. On April 7, 2020, the City submitted a written *force majeure* notice and requested to provide additional information required under Paragraph 56 of the Consent Decree once the COVID-19 pandemic is contained and the City is better able to fully assess the impacts on its performance of its Consent Decree obligations. On February 5, 2021, the City submitted an interim report on the impacts of the *force majeure* event. On April 18, 2023, the City submitted the Final Report for the City's notice of a *force majeure* event due to COVID-19. The City submitted additional information in support of the City's Final Report on December 14, 2023.

3.1 Capacity Assurance Program

In accordance with the requirements of Paragraph V.12.e of the CD, the City is to submit to EPA and SCDES for review, comment, and approval a Capacity Assurance Program (CAP). The CAP is to be submitted within 180 days after EPA approval of the Sewer System Hydraulic Model Report (HMR). As of April 4, 2024, the HMR was approved by EPA. The CAP was submitted to EPA and SCDES on September 30, 2024. The City is awaiting EPA and SCDES review and approval of the CAP.

3.2 Infrastructure Rehabilitation Report (IRR) for the WCTS

In accordance with Section V.16 of the CD, the City shall submit an Infrastructure Rehabilitation Report (IRR) summarizing the results of the CSAP of the major components of the WCTS and a description of proposed rehabilitation projects. The IRR was submitted to EPA and SCDES on November 22, 2019. The City is awaiting EPA and SCDES review and approval of the IRR.

As rehabilitation projects are identified in the normal course of operations and maintenance, the City is proceeding with design and construction of those projects. Completion percentages of projects currently in progress are as follows:

- SS725802 Greenlawn Dr. to Burnside #1 PS (Hampton Forest) Phase 2 – Construction 100% Complete
- SS7301 Bull Street – Construction in Progress; a completion percentage cannot be provided due to a varying scope of work and timeline for this project.
- SS7331 Upper Kinley Creek Sewer Improvements Phase 1 – Construction 85% Complete
- SS733701 East Rocky Branch Improvements Phase 1 – Design 100% Complete
- SS733702 East Rocky Branch Improvements Phase 2 – Construction 100% Complete
- SS735003 Crane Creek Lower North Branch Capacity Upgrade Phase 1 – Construction 40% Complete
- SS7428 Lower Saluda River Relief Sewer and Major Pipe Rehabilitation – Construction 100% Complete
- SS7450 Crane Creek Lower North Branch Capacity Upgrade Phase 2 – Construction 99% Complete
- SS7467 North Columbia Pump Station Upgrade – Construction 99% Complete
- SS7474 Upper North Branch Crane Creek Sewer Improvements Phase 1 – Design 95% Complete
- SS753902 CIPP Major Pipe Rehabilitation – Design 95% Complete
- SS753903 Geopolymer Major Pipe Rehabilitation – Design 95% Complete
- SS753904 Pipe Bursting Major Pipe Rehabilitation – Design 95% Complete
- SS7555 Lower Crane Creek Relief Sewer Phase 2 – Design 30% Complete
- SS7560 Lower Crane Creek Storage Facility & Pump Station – Construction 2% Complete
- SS7562 Gills Creek Relief Sewer Phase 1 – Design 90% Complete
- SS7564 West Columbia Pump Station Improvements – Construction 99% Complete
- SS7565 Lower Kinley Creek Sewer Improvements – Construction 0% Complete
- SS7568 Saluda River Force Main Extension Phase 1 – Construction 80% Complete
- SS7568 Saluda River Force Main Extension Phase 2 – Design 60% Complete
- SS7589 Broad River Force Main Replacement and Gravity Sewer Capacity Improvements – Design 95% Complete

In accordance with Section V.16.c of the CD, the City shall submit a Supplemental Infrastructure Rehabilitation Report (SIRR) which shall update all portions of the IRR to reflect additional information developed by the City through completion of the CSAP of the minor components of the WCTS. The SIRR was submitted to EPA and SCDES on November 22, 2022. The City is awaiting EPA and SCDES review and approval of the SIRR.

As rehabilitation projects are identified in the normal course of operations and maintenance, the City is proceeding with design and construction of those projects. Completion percentages of projects currently in progress are as follows:

- SS6786 Annual Gravity Sewer Manhole Lining and Replacement – FY2024 Construction 30% Complete
- SS6966 Annual Rehab on Lines less than 15" – FY2025 Construction 15% Complete

- SS7435 Wexford and Windsong Lift Stations Evaluation and Rehabilitation Project – Construction 45% Complete
- SS7437 Miscellaneous Lift Station Improvements and Backup Power Addition – Construction 20% Complete
- SS7462 Investigation of Crockett Road, Atlas Road and Versch Lock Lift Stations – Design 85% Complete
- SS7463 SSES and Sewer Rehabilitation Implementation CC01 – Design 100% Complete
- SS7464 Sewer System Evaluation Study and Sewer Rehabilitation Implementation CC02 and CC04 – Construction 45% Complete
- SS7478 Rocky Branch 01 SSES Phase 2 – Design 95% Complete
- SS7479 Smith Branch 02 SSES Phase 2 – Design 95% Complete
- SS7497 Mill Creek PS Miscellaneous Improvements – Design 90% Complete
- SS753501 Olympia Sanitary Sewer Relocation and Rehabilitation – Design 99% Complete (The project is a newly created initial phase of the overall SS7535 project.)
- SS753502 Olympia Sanitary Sewer Relocation and Rehabilitation – Design 85% Complete
- SS7549 Woodlands Force Main Replacement – Construction 100% Complete
- SS7554 Harbison #4 Pump Station Improvements and Force Main Replacement – Design 30% Complete
- SS7583 SR02 and BR04 Engineer Led Find and Fix Rehabilitation – Construction 95% Complete
- SS7615 Broad River Pump Station Miscellaneous Improvements – Construction 5% Complete

Section 4 Quarterly SSO Report

In accordance with Section IX.39.a.(ii) of the CD, the City is to provide a list of all SSOs that occurred during the reporting period in a tabular format along with information on the date, time, location, source, duration, estimated volume, receiving water, cause, and actions taken to resolve the SSO.

The City received guidance from the SCDES regarding the SSOs caused by Hurricane Helene, which occurred between September 26, 2024, and October 1, 2024. In accordance with this guidance, the SSOs were reported to SCDES in a summary format rather than as individual reports, as typically required by the National Pollutant Discharge Elimination System (NPDES) Permit (Appendix A, Hurricane Helene SSO Summary). While these SSOs were reported to SCDES in a nontraditional method, these SSOs are documented in Table 1 of this report for submission to the EPA per standard practice. The majority of the entries list "N/A" for the Date and Time of Corrective Action, with the notation "Associated with Hurricane Helene." under the Actions Taken column.

Table 1 – SSO Report, 3rd Quarter 2024

City of Columbia, SC Quarterly SSO Listing 3rd Quarter 2024									
Date	Time	Location	Source	Date of Corrective Action	Time of Corrective Action	Estimated Volume (gallons)	Receiving Water (if any)	Cause	Actions Taken
7/2/2024	13:30	215 Canterfield Rd, Columbia, SC 29212	Cleanout	8/22/2024	15:00	10		Debris	Washed Service Line To Remove Stoppage And Resume Normal Flow. Service Lateral Point Repair.
7/5/2024	10:04	1411 Lorick Ave, Columbia, SC 29203	Cleanout	TBD		10		Roots	Washed Service Line To Remove Stoppage And Resume Normal Flow. Service Lateral CIPP To Be Done.
7/10/2024	11:04	4138 McQueen St, Columbia, SC 29203	Cleanout	7/10/2024	13:19	22	Storm Drain	Debris	Washed Service Line To Remove Stoppage And Resume Normal Flow.
7/22/2024	16:25	4300 Catherine Ave, Columbia, SC 29203	Line Segment	7/22/2024	19:52	207	Unnamed Tributary To Smith Branch	Collapsed Line	Emergency Main Line Repair.
7/23/2024	13:30	516 Meadowlake Dr, Columbia, SC 29203	Manhole	7/23/2024	20:30	84000	Unnamed Tributary Feeding Crane Creek	Equipment Failure	Pumped Water Out Of Hole From Broken Water Main. Water Department Fixed Water Main Line.
7/24/2024	01:44	1806 Blossom St, Columbia, SC 29201	Manhole	N/A		24420	Rocky Branch	Wet Weather	Wet Weather - Observation Only.
7/24/2024	02:05	3144 Grace Hill Rd, Columbia, SC 29204	Manhole	N/A		187		Wet Weather	Wet Weather - Observation Only.
7/24/2024	18:25	3144 Grace Hill Rd, Columbia, SC 29204	Manhole	N/A		1750	Orphanage Branch	Wet Weather	Wet Weather - Observation Only.
7/26/2024	10:36	2029 Waverly St, Columbia, SC 29204	Cleanout	TBD		638	Storm Drain	Collapsed Line	Washed Main Line To Remove Stoppage And Resume Normal Flow. Manhole Repair To Be Done.
7/30/2024	12:50	419 Bosworth Field Ct, Columbia, SC 29212	Manhole	7/30/24	13:00	800	Creek	Debris	Washed Main Line To Remove Stoppage And Resume Normal Flow.
8/6/2024	23:15	5178 Bluff Rd, Columbia, SC 29209	Manhole	8/7/2024	19:00	282500	Reeder Point Branch Creek	Equipment Failure	Observation Only / Mechanic Could Not Repair Bypass Pump. Repair Bypass Pump.
8/7/2024	00:00	200 Candi Ln, Columbia, SC 29210	Manhole	N/A		75731	Saluda River	Wet Weather	Wet Weather - Observation Only. Associated With Hurricane Debby.
8/7/2024	00:00	1651 Shady Ln, Columbia, SC 29206	Manhole	N/A		3113	Storm Drain Into Lake Katherine	Wet Weather	Wet Weather - Observation Only. Associated With Hurricane Debby.
8/7/2024	03:30	1625 Stevenson Ave, Columbia, SC 29203	Cleanout	N/A		1823	Storm Drain	Wet Weather	Wet Weather - Observation Only. Associated With Hurricane Debby.
8/7/2024	09:30	6300 Yorkshire Dr, Columbia, SC 29209	Cleanout	8/9/2024	12:00	60		Collapsed Line	Washed Service Line To Resume Normal Flow. Emergency Service Line Repair.

Consent Decree Quarterly Report | 2024 Q3

City of Columbia, SC Quarterly SSO Listing 3rd Quarter 2024									
Date	Time	Location	Source	Date of Corrective Action	Time of Corrective Action	Estimated Volume (gallons)	Receiving Water (If any)	Cause	Actions Taken
8/8/2024	16:30	1625 Stevenson Ave, Columbia, SC 29203	Cleanout	N/A		9420	Storm Drain	Wet Weather	Wet Weather - Observation Only.
8/8/2024	13:30	1651 Shady Ln, Columbia, SC 29206	Manhole	8/12/2024	08:00	49883	Lake Katherine	Collapsed Line	Setup Emergency Bypass. Emergency Main Line Repair.
8/9/2024	13:05	2740 The Blvd, Columbia, SC 29209	Manhole	8/9/2024	14:05	233150	Gills Creek	Treatment Plant	Observation Only. Restore Power To IPS (Bypass Power Feed).
8/9/2024	12:24	1200 Simmon Tree Lane, Columbia, SC 29201	Manhole	8/9/2024	19:40	1542	Storm Drain	Equipment Failure	Closed All Valves Leading To T1 Daft To Limit Flow. Hooked Generator Up To T1 Daft Until Power Restored To Plant.
8/11/2024	15:45	1625 Stevenson Ave, Columbia, SC 29203	Cleanout	N/A		4838	Storm Drain	Wet Weather	Wet Weather - Observation Only.
8/12/2024	23:08	833 Shore View Dr, Columbia, SC 29212	Cleanout	8/13/2024	1:00	397		Roots	Root Cut Service Line To Remove Stoppage And Resume Normal Flow.
8/13/2024	01:05	1200 Simmon Tree Lane, Columbia, SC 29201	Other	8/14/2024	06:02	1740	Storm Drain	Equipment Failure	Placed The Pumps In Manual. Repair T1 Daft Alarm System. Repair T1 Daft Mixed Sludge System Control.
8/14/2024	18:30	314 Lincolnshire Sq, Columbia, SC 29203	Manhole	8/14/2024	19:00	2877	Storm Ditch	Debris	Washed Main Line To Remove Stoppage And Resume Normal Flow.
8/16/2024	09:00	3016 Bush River Rd, Columbia, SC 29210	Manhole	8/16/2024	09:09	250	Ditch	Grease	Washed Main Line To Remove Stoppage And Resume Normal Flow.
8/17/2024	22:45	1625 Stevenson Ave, Columbia, SC 29203	Cleanout	N/A		2075		Wet Weather	Wet Weather - Observation Only.
8/17/2024	19:00	904 Garden Valley Ln, Columbia, SC 29210	Manhole	9/4/2024	15:00	150	Storm Drain	Collapsed Line	Washed Main Line To Remove Stoppage And Resume Normal Flow. Service Line Tap Reinstated.
8/19/2024	10:30	128 Forest Fern Rd, Columbia, SC 29212	Manhole	9/19/2024	12:00	24		Collapsed Line	Washed Main Line To Remove Stoppage And Resume Normal Flow. Main Line Repair.
8/20/2024	17:44	2813 Douglas St, Columbia, SC 29203	Cleanout	8/20/2024	18:00	10		Equipment Failure	Root Cut Service Line To Remove Stoppage And Resume Normal Flow.
8/20/2024	14:44	3545 W Beltline Blvd, Columbia, SC 29203	Manhole	9/23/2024	12:00	18		Collapsed Line	Washed Main Line To Remove Stoppage And Resume Normal Flow. Manhole Repair.
8/27/2024	12:00	734 Cindy Dr, Columbia, SC 29203	Other	9/9/2024	14:41	14		Collapsed Line	Dye Tested Sink Hole Found Near Manhole. Main Line Repair.
8/28/2024	16:07	1518 Maple St, Columbia, SC 29205	Cleanout	TBD		38		Debris	Washed Service Line To Remove Stoppage And Resume Normal Flow. Service Lateral CIPP To Be Done.
8/28/2024	14:00	850 Gracern Rd, Columbia, SC 29210	Other	8/28/2024	16:00	200		Equipment Failure	Discharge Hose Was Placed In Wet Well To Retain Most Of The Wastewater. Closed Valve To Force Main.
8/29/2024	14:12	1200 Simmon Tree Lane, Columbia, SC 29201	Line Segment	8/29/24	14:12	1342	Storm Ditch	Equipment Failure	Turned Off The Godwin Pump That Caused The Spill. Put The Godwin Pump Line Down The Slope Inside The EQ.
8/30/2024	01:30	1200 Simmon Tree Lane, Columbia, SC 29201	Other	8/30/2024	02:15	490	Storm Drain	Treatment Plant	Stopped Skimming. Turned T1 Wasting Off. Reduced T1 Primary Timers To 1 Minute. Notified Maintenance (Recovered About 350 Gallons). Pigged Storm Drains And Lined Area.
9/5/2024	11:30	275 Northwood St, Columbia, SC 29201	Force Main	9/5/2024	20:41	49840	Columbia Canal	3rd Party Responsibility	Set Up Bypass Pump To Gravity Main. Repair Done By Contractor.
9/6/2024	13:00	1817 Nunemaker Dr, Columbia, SC 29210	Manhole	9/9/2024	09:00	40	Storm Drain	Debris	Washed Main Line To Remove Stoppage And Resume Normal Flow.
9/5/2024	15:40	920 Cane Lake Dr, Columbia, SC 29203	Cleanout	9/8/2024	12:00	130		Collapsed Line	Root Cut Service Line To Remove Stoppage And Resume Normal Flow. Service Lateral Point Repair.
9/16/2024	14:15	3614 Traveler Ln, Columbia, SC 29209	Cleanout	9/18/2024	08:00	19		Collapsed Line	Washed Service Line To Resume Normal Flow. Service Lateral Point Repair.
9/18/2024	15:39	1424 Fork Ave, Irmo, SC 29063	Manhole	9/18/2024	16:00	625	Storm Drain	Debris	Washed Main Line To Remove Stoppage And Resume Normal Flow.
9/23/2024	12:23	3404 Ragsdale Dr, Columbia, SC 29209	Cleanout	9/23/2024	13:00	3		Grease	Washed Service Line To Remove Stoppage And Resume Normal Flow. Added Degreaser In Line.
9/27/2024	15:45	353 S Chimney Lane, Columbia, SC 29209	Manhole	TBD		19500	Creek	Roots	Washed Main Line To Remove Stoppage And Resume Normal Flow. Main Line CIPP Point Repair To Be Done.
9/27/2024	16:20	3613 Baywater Dr, Columbia, SC 29209	Manhole	9/27/2024	18:00	592	Creek	Grease	Washed Main Line To Remove Stoppage And Resume Normal Flow. Added Degreaser In Line.

City of Columbia, SC Quarterly SSO Listing 3rd Quarter 2024									
Date	Time	Location	Source	Date of Corrective Action	Time of Corrective Action	Estimated Volume (gallons)	Receiving Water (if any)	Cause	Actions Taken
9/28/2024	21:50	810 Ohio St, Columbia, SC 29201	Manhole	10/4/2024	17:00	4384	Storm Drain	Collapsed Line	Washed Main Line To Remove Stoppage And Resume Normal Flow. Main Line Repair.
9/29/2024	23:00	153 Summer Pines Dr, Columbia, SC 29016	Cleanout	TBD		20		Roots	Washed Service Line To Remove Stoppage And Resume Normal Flow. Service Lateral CIPP To Be Done.
9/26/2024	15:55	1625 Stevenson Ave, Columbia, SC 29203	Manhole, Cleanout	N/A		55785	Storm Drain	Wet Weather	Wet Weather - Observation Only. Associated With Hurricane Helene.
9/26/2024	15:50	5178 Bluff Rd, Columbia, SC 29209	Pump Station, Manhole	N/A		UNKNOWN	Reeder Point Branch Creek	Wet Weather	Wet Weather - Observation Only. Associated With Hurricane Helene.
9/26/2024	17:15	3823 Shaw St, Columbia, SC 29203	Manhole	N/A		13125	Smith Branch Outfall	Wet Weather	Wet Weather - Observation Only. Associated With Hurricane Helene.
9/26/2024	19:21	4708 Carter Hill Rd, Columbia, SC 29206	Cleanout	N/A		2249		Wet Weather	Wet Weather - Observation Only. Associated With Hurricane Helene.
9/26/2024	20:25	3144 Grace Hill Rd, Columbia, SC 29204	Manhole	N/A		350	Unnamed Creek	Wet Weather	Wet Weather - Observation Only. Associated With Hurricane Helene.
9/26/2024	20:30	6404 Christie Rd, Columbia, SC 29209	Cleanout	N/A		2349		Wet Weather	Wet Weather - Observation Only. Associated With Hurricane Helene.
9/27/2024	01:52	1651 Shady Ln, Columbia, SC 29206	Manhole	N/A		3899	Gills Creek And Lake Katherine	Wet Weather	Wet Weather - Observation Only. Associated With Hurricane Helene.
9/27/2024	03:56	4122 River Dr, Columbia, SC 29201	Manhole	9/27/2024	05:19	UNKNOWN	Columbia Canal	Pump Station Failure	Wet Weather - Observation Only. Associated With Hurricane Helene.
9/27/2024	05:26	1806 Blossom St, Columbia, SC 29201	Manhole	N/A		63		Wet Weather	Wet Weather - Observation Only. Associated With Hurricane Helene.
9/27/2024	06:00	520 Sail Point Way, Columbia, SC 29212	Pump Station, Manhole	9/27/2024		15100	Lake Murray	3rd Party Responsibility	Repaired Bypass Pump (3rd Party Responsible). Associated With Hurricane Helene.
9/27/2024	11:55	850 Gracern Rd, Columbia, SC 29210	Pump Station, Manhole	N/A		250	Unnamed Creek Leading To Saluda	Wet Weather	Restarted Generator. Associated With Hurricane Helene.
9/27/2024	19:22	5101 Randall Ave, Columbia, SC 29203	Manhole	N/A		629	Storm Drain	Wet Weather	Wet Weather - Observation Only. Associated With Hurricane Helene.
9/27/2024	20:30	6319 Christie Rd, Columbia, SC 29209	Cleanout	N/A		44	Storm Drain	Wet Weather	Wet Weather - Observation Only. Associated With Hurricane Helene.

As noted in Section IV.8.a of the CD, a Building Backup is defined as a release of wastewater into a building or onto private property that is caused by blockages, flow conditions, or other malfunctions in the WCTS.

Separate from the SSO listing provided in Table 1 above, the following table identifies building backups within the City's system for the current reporting period.

Table 2 – Building Backup Report, 3rd Quarter 2024

City of Columbia, SC Quarterly Building Backup Listing 3rd Quarter 2024									
Date	Time	Location	Source	Date of Corrective Action	Time of Corrective Action	Estimated Volume (gallons)	Receiving Water (if any)	Cause	Actions Taken
7/25/2024	12:42	1600 Main St, Columbia, SC 29201	City	7/25/2024	14:30	1459		Grease	Washed Main Line To Remove Stoppage And Resume Normal Flow.
7/26/2024	08:56	1604 Main St, Columbia, SC 29201	City	N/A		2282		Grease	Action Taken To Address 7/25/2024 Building Backup Also Addressed This Building Backup, Which Was Not Reported Until Next Day.
8/26/2024	08:30	1 Arundel Ln, Columbia, SC 29209	City	N/A		10		3rd Party Responsibility	Referred To Claims. Third Party Responsible. Was Cleaned Up Prior To Tech Arrival.
9/3/2024	17:00	2431 Washington St, Columbia, SC 29204	City	9/3/2024	17:00	10		Debris	Washed Service Line To Remove Stoppage And Resume Normal Flow.
9/6/2024	10:15	1900 Hampton St, Columbia, SC 29201	City	TBD		125		Collapsed Line	Televised Line To Find The Cause. Service Line Repair To Be Performed By Contractor.
9/10/2024	11:00	541 Coldstream Dr, Columbia, SC 29212	City	9/11/2024	15:03	86		3rd Party Responsibility	Completed A Service Line Point Repair.
9/27/2024	13:30	409 Beaverbrook Rd, Columbia, SC 29203	City	TBD		365		Collapsed Line	Washed Service Line To Remove Stoppage And Resume Normal Flow. Service Lateral Point Repair To Be Done.

Appendix A

Hurricane Helene SSO Summary Prepared for SCDES



Department of Utility Operations - Wastewater Compliance
1200 Simmon Tree Lane | Columbia, SC 29201 | (803) 476-0882

October 10, 2024

RE: Sanitary Sewer
Overflow Summary
Attributable to Hurricane
Helene (September 26,
2024 – October 1, 2024)

South Carolina Department of Environmental Services
Bureau of Water – Wastewater Compliance Section
Attn: Adam Cannon
2600 Bull Street
Columbia, SC 29201

Dear Mr. Cannon,

The City reached out to the South Carolina Department of Environmental Services (SCDES) on October 1, 2024 for guidance on reporting the numerous Sanitary Sewer Overflows (SSOs) attributable to the Hurricane Helene storm event. Per phone and email conversation with SCDES, it was agreed that the City would present the SSOs in a summary format rather than individual reports for each SSO, as is the normal reporting format specified in the City's NPDES permit. An initial list of confirmed SSO locations was provided on October 2, 2024 as requested by SCDES.

The City reviewed information to determine if there were additional locations that were confirmed to be SSOs. The updated summary list included with this letter includes all identified SSOs related to the storm event. Please note that the summary list encompasses the period from September 26, 2024 to October 1, 2024, which is the timeframe that the City's wastewater treatment plant (WWTP) and collection system experienced impacts from the storm event. Additional items are also included in the summary list that were not confirmed SSO events, to include Public Notices that the City issued as a precaution due to wet weather/surface water conditions and inability to access certain portions of the system. The City's WWTP was also operating under partial treatment conditions from September 29, 2024 to October 1, 2024. Daily updates of the WWTP conditions were provided to SCDES during this period.

If there are any questions regarding this summary of the storm event please contact me by phone or email.

Respectfully,



Matt Miller
Wastewater Compliance Manager

cc: Stephen Sealey, Wastewater Treatment Operations Manager, City of Columbia

City of Columbia Hurricane Helene SSO Events (September 26, 2024 - October 1, 2024)						
SSO Date	SSO Time	Location	Source	Asset Number	Receiving Water (if any)	Cause
9/26/2024	3:55 PM	1625 Stevenson Ave	MH/CO	40205	Storm Drain	Hurricane/Wet Weather
9/26/2024	3:50 PM	5178 Bluff Rd	Pump Station/MH	35878/41467	Reeder Point Branch Creek	Hurricane/Wet Weather
9/26/2024	5:15 PM	3823 Shaw St	MH	42727	Smith Branch Outfall	Hurricane/Wet Weather
9/26/2024	7:21 PM	4708 Carter Hill Rd	CO	117339	N/A	Hurricane/Wet Weather
9/26/2024	8:25 PM	3144 Grace Hill Rd	MH	34083	Unnamed creek	Hurricane/Wet Weather
9/26/2024	8:30 PM	6404 Christie Rd	CO	104944	Gills Creek	Hurricane/Wet Weather
9/27/2024	1:52 AM	1651 Shady Ln	MH	35009/35010	Gills Creek & Lake Katherine	Hurricane/Wet Weather
9/27/2024	3:56 AM	4122 River Dr	MH	37227/372258/37229	Columbia Canal	Wet Weather/ Pumpstation
9/27/2024	5:26 AM	1806 Blossom St	MH	48434	N/A	Hurricane/Wet Weather
9/27/2024	6:00 AM	520 Sail Point Way	Pump Station/MH	56102	Lake Murray	Power Utility Failure/Weather Related
9/27/2024	11:55 AM	850 Gracern Rd	Pump Station/MH	49172	Unnamed creek leading to Saluda River	Power Utility Failure/Weather Related
9/27/2024	7:22 PM	5101 Randall Ave	MH	38127	Storm Drain	Hurricane/Wet Weather
9/27/2024	8:30 PM	6319 Christie Rd	CO	99674	Storm Ditch	Hurricane/Wet Weather

Notes

1. The SSO at 4122 River Drive overflowed intermittently beginning on 9/27/2024 and ending on 10/01/2024.
2. The City issued a Public Notice for the areas of Saluda Riverwalk and Candi Lane on 9/29/2024 as a precaution due to the rising river levels; no SSOs were confirmed.
3. The City issued a Public Notice for the pump stations located at 855 Shoreview Drive and 5 Lakefront Court on 9/29/2024 as a precaution due to being unable to access the pump stations; no SSOs were confirmed.
4. The Metro WWTWP began to flood on 9/29/2024 due to the Congaree River level and portions remained flooded through 9/30/2024. Daily updates were provided to SCDES on the plant conditions.
5. The City's West Columbia pump station was submerged from 9/29/2024 through 10/01/2024.
6. Due to the wet weather conditions, reasonable SSO volumes could not be determined.
7. Asset Numbers include manholes, pump stations, address points.

MH = manhole

CO = cleanout