

Clean Water 2020 Program

CONSENT DECREE QUARTERLY REPORT

April 1, 2024 – June 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

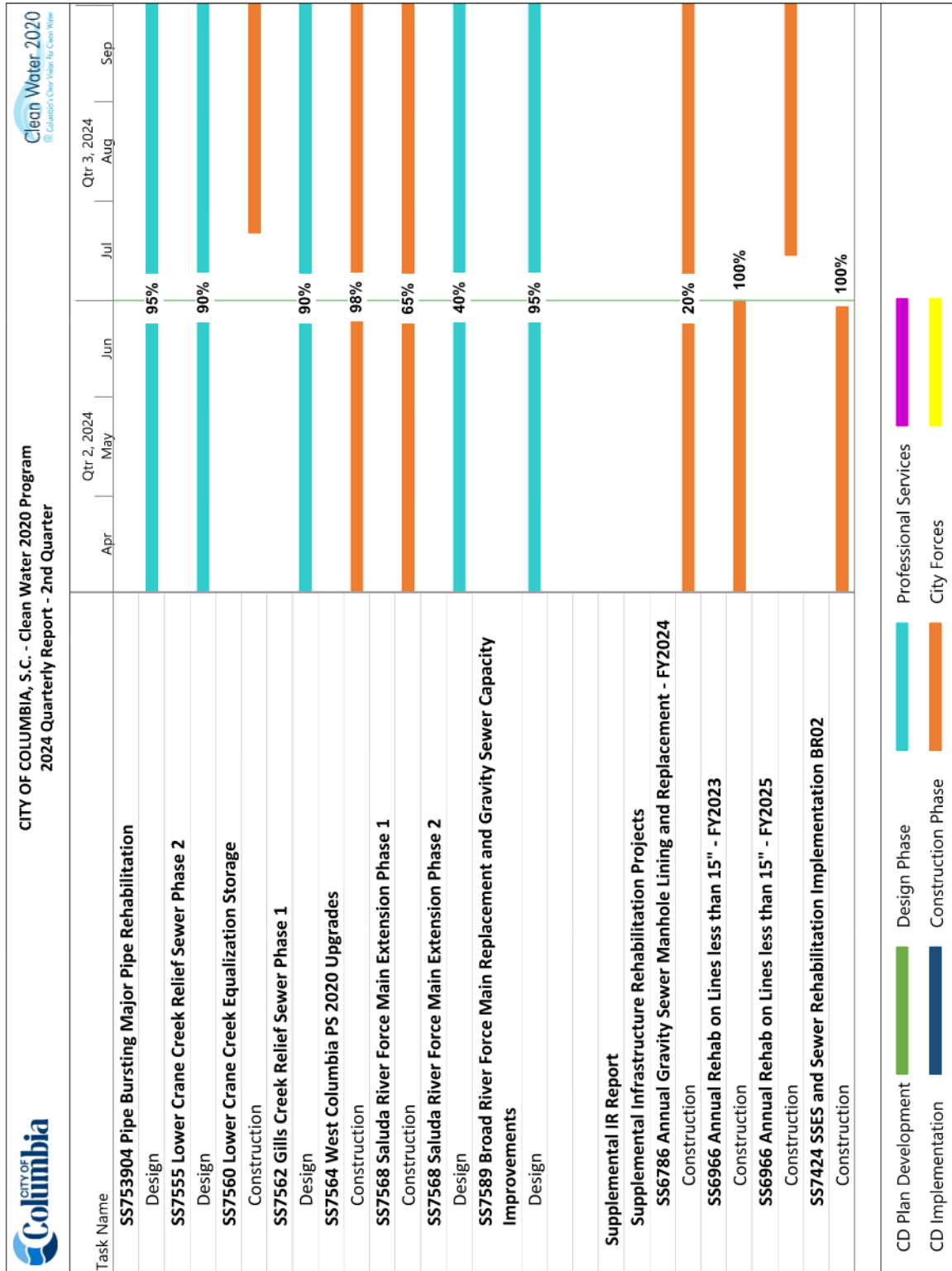
This section addresses the requirements of Section IX.39.a.(iv) of the Consent Decree and includes additional information that demonstrates that Columbia is implementing the remedial measures required in the CD. Information supplemental to that which is provided in Section 2 is provided in this section.

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.







Section 2 Schedule of Projects and Activities







 CITY OF COLUMBIA, S.C. - Clean Water 2020 Program 2024 Quarterly Report - 2nd Quarter		 Clean Water 2020 <small>© Columbia's Commitment to Clean Water</small>						
Task Name	Qtr 2, 2024					Qtr 3, 2024		
	Apr	May	Jun	Jul	Aug	Aug	Sep	Sep
SS7583 SR02 and BR04 Engineer Led Find and Fix Rehabilitation Construction								
SS7615 Broad River PS Miscellaneous Improvements Construction			90%					

CD Plan Development		Design Phase		Professional Services	
CD Implementation		Construction Phase		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. Therefore, the deadline for submittal of the CAP to EPA and SCDES is October 1, 2024.

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 90% 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 80% Complete
- SS733701 East Rocky Branch Improvements Phase 1 – Design 99% Complete
- SS733702 East Rocky Branch Improvements Phase 2 – Construction 99% 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 99% Complete
- SS7450 Crane Creek Lower North Branch Capacity Upgrade Phase 2 – Construction 95% Complete
- SS7467 North Columbia Pump Station Upgrade – Construction 95% 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 0% Complete
- SS7562 Gills Creek Relief Sewer Phase 1 – Design 90% Complete
- SS7564 West Columbia Pump Station Improvements – Construction 98% Complete
- SS7568 Saluda River Force Main Extension Phase 1 – Construction 65% Complete
- SS7568 Saluda River Force Main Extension Phase 2 – Design 40% 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 20% Complete
- SS6966 Annual Rehab on Lines less than 15" – FY2023 Construction 100% Complete
- SS6966 Annual Rehab on Lines less than 15" – FY2025 Construction 0% Complete

- SS7424 Sewer System Evaluation Study and Sewer Rehabilitation Implementation BR02 – Construction 100% Complete
- SS7432 Starlite PS Decommissioning and Basin Rehabilitation Related Works – Construction 100% Complete (Project officially completed in 2024 Q1 with issuance of SCDES Permit to Operate.)
- SS7435 Wexford and Windsong Lift Stations Evaluation and Rehabilitation Project – Construction 20% Complete
- SS7437 Miscellaneous Lift Station Improvements and Backup Power Addition – Construction 15% Complete
- SS7462 Investigation of Crockett Road, Atlas Road and Versch Lock Lift Stations – Design 85% Complete
- SS7463 SSES and Sewer Rehabilitation Implementation CC01 – Design 99% Complete
- SS7464 Sewer System Evaluation Study and Sewer Rehabilitation Implementation CC02 and CC04 – Construction 35% Complete
- SS7468 Three Rivers Force Main Replacement – Construction 100% 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 75% Complete
- SS7535 Olympia Sanitary Sewer Relocation and Rehabilitation – Design 80% Complete
- SS7549 Woodlands Force Main Replacement – Construction 60% 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 90% Complete
- SS7615 Broad River Pump Station Miscellaneous Improvements – Construction 0% Complete

3.3 Sewer System Hydraulic Model

The Hydraulic Model Report was submitted to EPA and SCDES on August 21, 2020. The City received final approval of the Hydraulic Model Report from EPA and SCDES on April 4, 2024.

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.

Table 1 – SSO Report, 2nd Quarter 2024

City of Columbia, SC Quarterly SSO Listing 2nd Quarter 2024									
Date	Time	Location	Source	Date of Corrective Action	Time of Corrective Action	Estimated Volume (gallons)	Receiving Water (if any)	Cause	Actions Taken
4/1/2024	20:00	422 Saddletrail Rd, Columbia, SC 29203	Manhole	4/2/2024	10:20	629		Grease	Washed Main Line To Remove Stoppage And Resume Normal Flow. *This Pipe Is Scheduled For Repair In SSES To Be Completed In 2025.
4/5/2024	12:00	320 S Bull St, Columbia, SC 29205	Cleanout	4/5/2025	12:30	15		Debris	Washed Service Line To Remove Stoppage And Resume Normal Flow.
4/8/2024	13:57	4248 Hileah Dr, Columbia, SC 29209	Cleanout	4/16/2024	12:00	5		Roots	Washed Service Line To Resume Normal Flow. Service Lateral CIPP.
4/8/2024	11:15	1424 Fork Ave, Irmco, SC 29063	Manhole	4/23/2024	12:00	1594	Koon Branch Creek	Collapsed Line	Washed Main Line To Resume Normal Flow. Manhole Repair To Cut Out Liner Issue.
4/13/2024	21:00	1132 Pineview Dr, Columbia, SC 29209	Force Main	4/15/2024	12:00	4680	Storm Ditch	3rd Party Responsibility	Turned Off Lift Station. Force Main Repair.
4/15/2024	13:11	2930 English Ave, Columbia, SC 29204	Cleanout	4/15/2024	14:15	24		Debris	Washed Service Line To Remove Stoppage And Resume Normal Flow.
4/16/2024	16:59	9 Dresden Dr, Columbia, SC 29203	Manhole	4/16/2024	17:30	295	Unnamed Creek Feeding Cumbess	Debris	Washed Main Line To Remove Stoppage And Resume Normal Flow.
4/30/2024	11:51	1110 Bower Pkwy, Columbia, SC 29212	Manhole	4/30/2024	12:00	281	Storm Drain	Debris	Washed Main Line To Remove Stoppage And Resume Normal Flow.
5/2/2024	19:00	436 Kettering Dr, Columbia, SC 29210	Cleanout	6/25/2024	14:30	23		Roots	Root Cut Service Line To Remove Stoppage And Resume Normal Flow. Service Lateral CIPP.
5/7/2024	09:11	940 Andrews Rd, Columbia, SC 29201	Manhole	6/7/24	12:00	19500	Storm Drain	Debris	Washed Main Line To Remove Stoppage And Resume Normal Flow. Manhole Repair.
5/7/2024	13:00	275 Park Terrace Dr, Columbia, SC 29212 #100	Manhole	5/7/2024	14:30	525	Storm Drain	Debris	Washed Main Line To Remove Stoppage And Resume Normal Flow.
5/9/2024	16:30	518 Zanark Dr, Columbia, SC 29212	Cleanout	TBD		81	Storm Drain	3rd Party Responsibility	Washed Service Line To Remove Stoppage And Resume Normal Flow. Contractors To Reconnect Service Line.
5/13/2024	14:32	201 Basinghouse Rd, Columbia, SC 29212	Manhole	6/3/2024	12:00	299		Debris	Washed Main Line To Remove Stoppage And Resume Normal Flow. Manhole Repair.
5/13/2024	18:30	3127 Chinaberry Dr, Columbia, SC 29204	Cleanout	5/13/2024	19:30	45		Equipment Failure	Washed Service Line To Remove Blockage And Resume Normal Flow. Ceased Washing Service Line.
5/15/2024	17:30	3638 Falling Springs Rd, Columbia, SC 29203	Cleanout	5/17/2024	12:00	25		Collapsed Line	Removed Blockage To Resume Normal Flow. Service Line Rodded/Sanded Down Liner With Picote Machine.
5/29/2024	09:33	1407 Wellington Dr, Columbia, SC 29204	Manhole	5/29/2024	12:00	50	Storm Drain	Debris	Washed Main Line To Remove Stoppage And Resume Normal Flow.
5/29/2024	21:38	6804 Bailey St, Columbia, SC 29203	Manhole	5/30/2024	12:00	1343	Storm Drain	Debris	Washed Main Line To Remove Stoppage And Resume Normal Flow.
5/30/2024	12:00	520 Sail Point Way, Columbia, SC 29212	Force Main	5/30/2024		900	Lake Murray	3rd Party Responsibility	Repaired Force Main.
6/1/2024	16:58	650 Candi Ln, Columbia, SC 29210	Cleanout	6/11/2024	13:30	26		Collapsed Line	Washed Service Line To Remove Stoppage And Resume Normal Flow. Service Line Repair.
6/3/2024	14:17	176 Albert Allen Rd, Columbia, SC 29203	Manhole	6/4/2024	12:00	16400	Creek	Debris	Washed Main Line To Remove Stoppage And Resume Normal Flow.
6/4/2024	09:00	3100 Danfield Dr, Columbia, SC 29204	Other	6/11/2024	12:00	1125	Eight Mile Branch	Collapsed Line	Plugged Line And Set Up Bypass Pump. Main Line Repair.
6/7/2024	17:00	215 Canterfield Rd, Columbia, SC 29212	Cleanout	6/22/2024	12:00	8	Storm Drain	3rd Party Responsibility	Washed Service Line To Remove Stoppage And Resume Normal Flow. Service Lateral Point Repair.
6/13/2024	18:00	108 Beth Hope Ln, Columbia, SC 29210	Manhole	TBD		1010	Creek	Collapsed Line	Washed Main Line To Remove Stoppage And Resume Normal Flow. Main Line Repair To Be Done.

City of Columbia, SC Quarterly SSO Listing 2nd Quarter 2024									
Date	Time	Location	Source	Date of Corrective Action	Time of Corrective Action	Estimated Volume (gallons)	Receiving Water (if any)	Cause	Actions Taken
6/14/2024	09:47	3919 Farrow Rd, Columbia, SC 29203	Manhole	6/14/2024	12:00	360	Storm Drain	Debris	Washed Main Line To Remove Stoppage And Resume Normal Flow.
6/15/2024	17:00	283 Woodwinds Dr, Columbia, SC 29212	Manhole	TBD		102	Storm Ditch	Collapsed Line	Washed Main Line To Remove Stoppage And Resume Normal Flow. Manhole Repair To Be Done.
6/21/2024	19:20	215 Canterfield Rd, Columbia, SC 29212	Other	6/23/2024	12:00	8	Storm Drain	3rd Party Responsibility	Washed Service Line To Remove Stoppage And Resume Normal Flow. Service Lateral Point Repair.
6/26/2024	09:15	283 Woodwinds Dr, Columbia, SC 29212	Manhole	TBD		875		Roots	Washed Main Line To Remove Stoppage And Resume Normal Flow. Main Line CIPP Point Repair To Be Done.
6/28/2024	11:15	1231 Blue Ridge Ter, Columbia, SC 29203	Manhole	TBD		10		Collapsed Line	Washed Main Line To Remove Stoppage And Resume Normal Flow. Main Line Repair To Be Done.

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, 2nd Quarter 2024

City of Columbia, SC Quarterly Building Backup Listing 2nd Quarter 2024									
Date	Time	Location	Source	Date of Corrective Action	Time of Corrective Action	Estimated Volume (gallons)	Receiving Water (if any)	Cause	Actions Taken
5/1/2024	13:33	1710 E Buchanan Dr, Columbia, SC 29206	City	5/21/2024	16:00	14		Debris	Washed Service Line To Remove Stoppage And Resume Normal Flow. Service Line Point Repair.