

# Clean Water 2020 Program

## CONSENT DECREE QUARTERLY REPORT

July 1, 2023 – September 30, 2023



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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 (SCDHEC). 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.

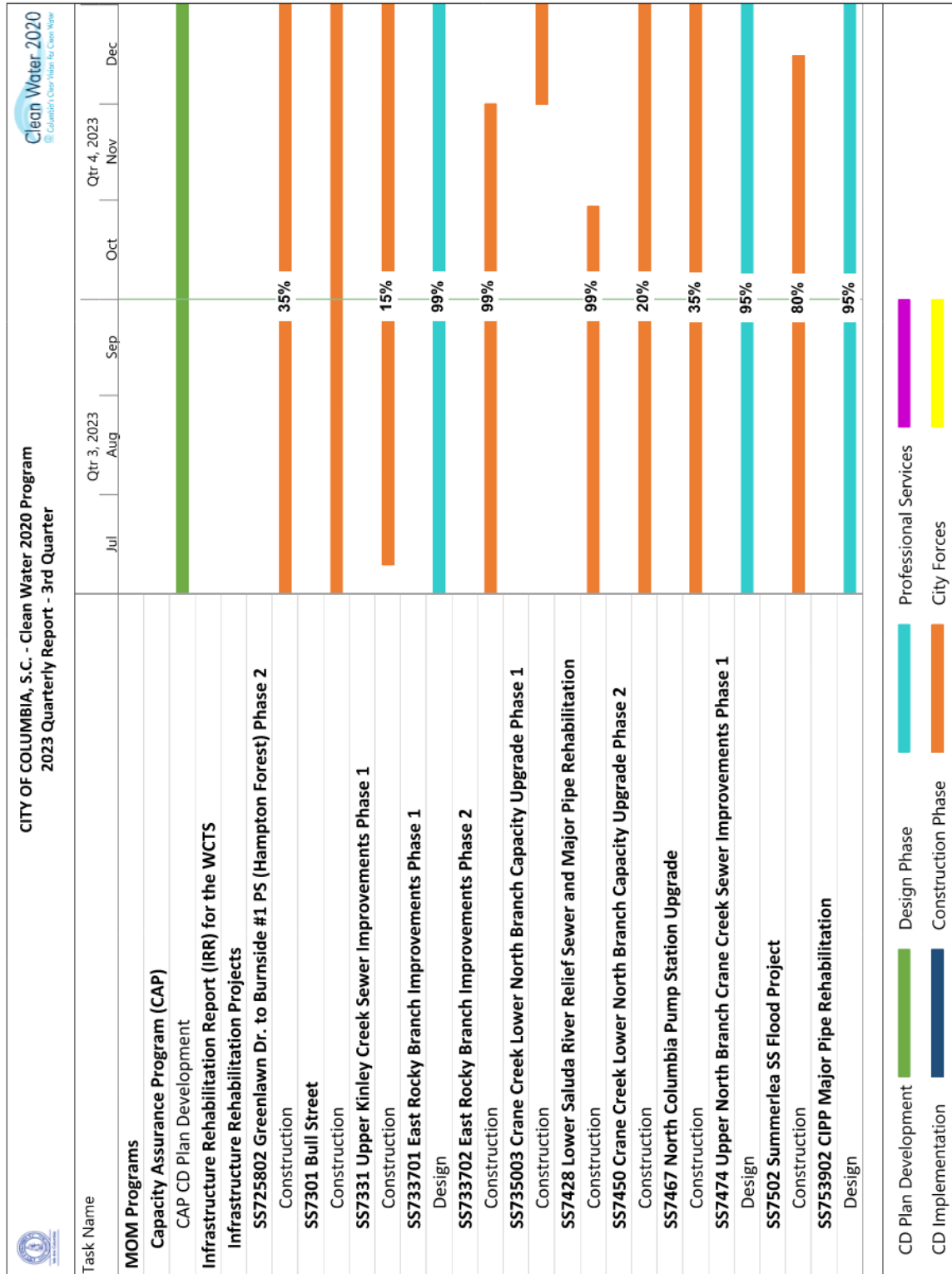
**Section 3 – Additional Information Demonstrating Implementation of Consent Decree Requirements**

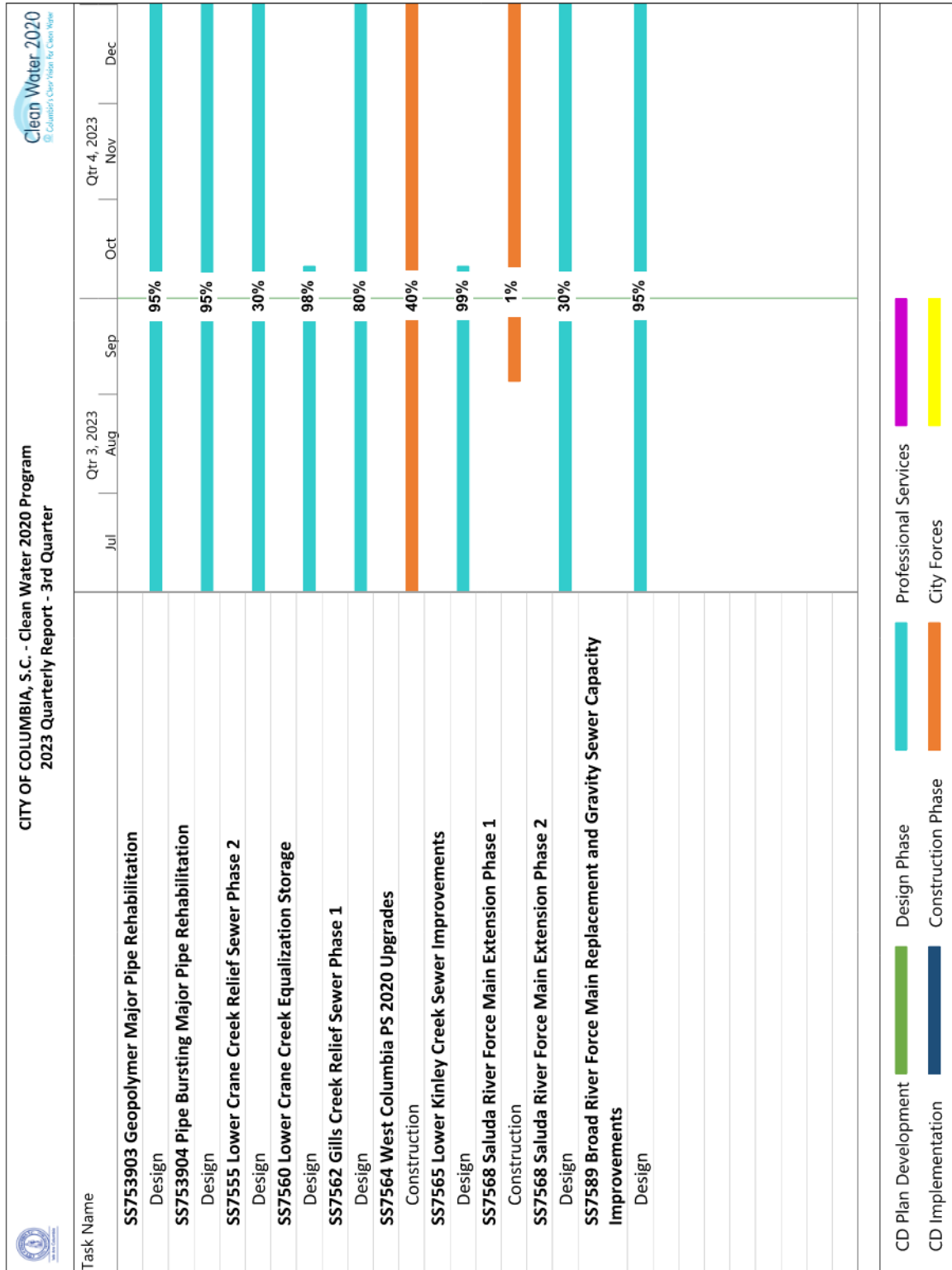
This section addresses the requirements of Section IX.39.a.(iv) of the Consent Decree and includes additional information that demonstrates that Columbia is implementing the remedial measures required in the CD. Information supplemental to that which is provided in Section 2 is provided in this section.

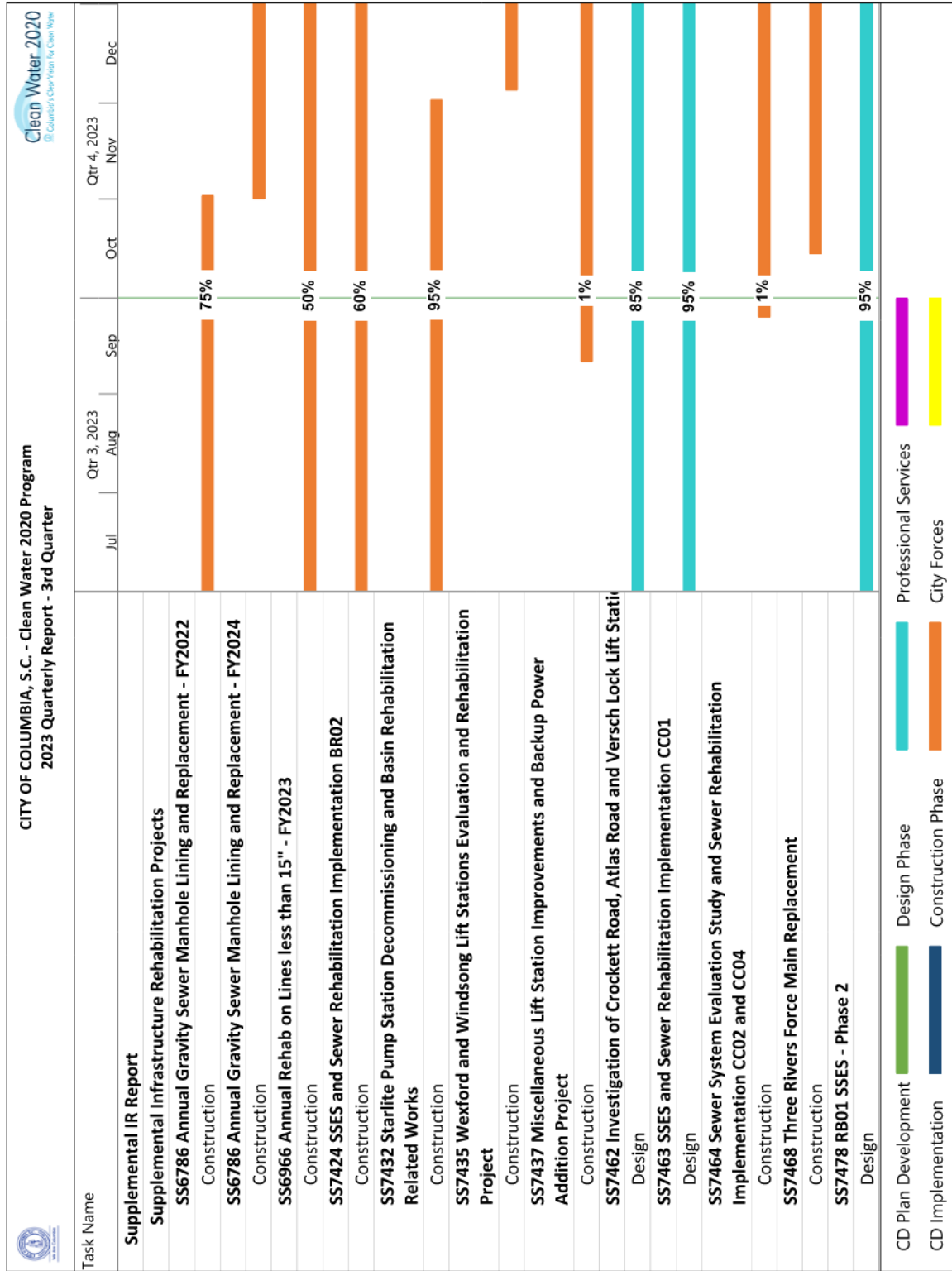
**Section 4 – Quarterly SSO Report**

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.

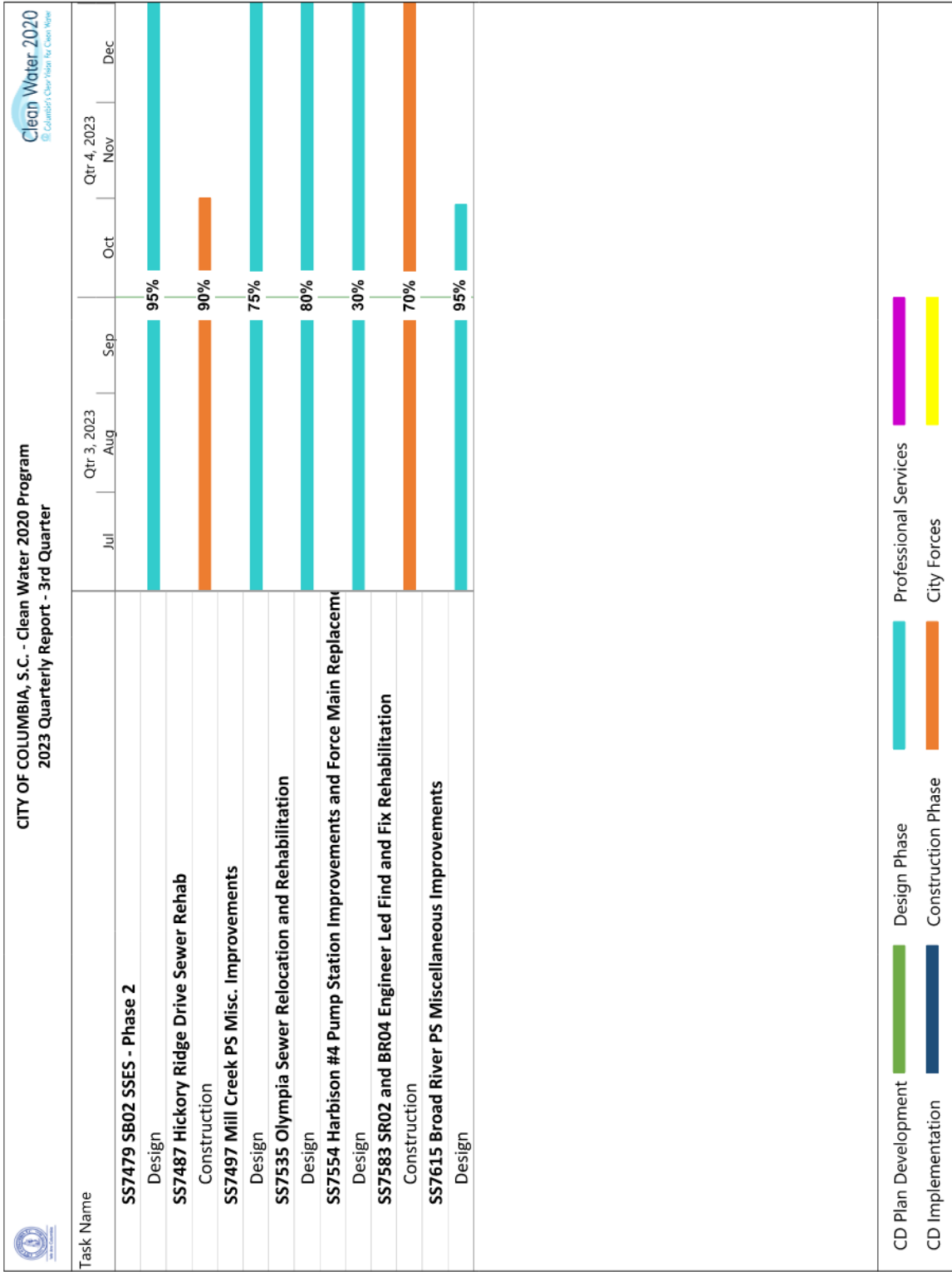
## Section 2 Schedule of Projects and Activities











## 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 of Health and Environmental Control 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.

### 3.1 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 SCDHEC on November 22, 2019. The City is awaiting EPA and SCDHEC 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 35% 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 15% 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 0% 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 20% Complete

- SS7467 North Columbia Pump Station Upgrade – Construction 35% Complete
- SS7474 Upper North Branch Crane Creek Sewer Improvements Phase 1 – Design 95% Complete
- SS7502 Summerlea SS Flood Project – Construction 80% 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 Equalization Storage – Design 98% Complete
- SS7562 Gills Creek Relief Sewer Phase 1 – Design 80% Complete
- SS7564 West Columbia Pump Station Improvements – Construction 40% Complete
- SS7565 Lower Kinley Creek Sewer Improvements – Design 99% Complete
- SS7568 Saluda River Force Main Extension Phase 1 – Construction 1% Complete
- SS7568 Saluda River Force Main Extension Phase 2 – Design 30% 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 SCDHEC on November 22, 2022. The City is awaiting EPA and SCHEC 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 – FY2022 Construction 75% Complete
- SS6786 Annual Gravity Sewer Manhole Lining and Replacement – FY2024 Construction 0% Complete
- SS6966 Annual Rehab on Lines less than 15" – FY2023 Construction 50% Complete
- SS7424 Sewer System Evaluation Study and Sewer Rehabilitation Implementation BR02 – Construction 60% Complete
- SS7432 Starlite PS Decommissioning and Basin Rehabilitation Related Works – Construction 95% Complete
- SS7435 Wexford and Windsong Lift Stations Evaluation and Rehabilitation Project – Construction 0% Complete
- SS7437 Miscellaneous Lift Station Improvements and Backup Power Addition – Construction 1% Complete
- SS7462 Investigation of Crockett Road, Atlas Road and Versch Lock Lift Stations – Design 85% Complete
- SS7463 SSES and Sewer Rehabilitation Implementation CC01 – Design 95% Complete

- SS7464 Sewer System Evaluation Study and Sewer Rehabilitation Implementation CC02 and CC04 – Construction 1% Complete
- SS7468 Three Rivers Force Main Replacement – Construction 0% Complete
- SS7478 Rocky Branch 01 SSES Phase 2 – Design 95% Complete
- SS7479 Smith Branch 02 SSES Phase 2 – Design 95% Complete
- SS7487 Hickory Ridge Drive Sewer Rehab – Construction 90% Complete
- SS7497 Mill Creek PS Miscellaneous Improvements – Design 75% Complete
- SS7535 Olympia Sanitary Sewer Relocation and Rehabilitation – Design 80% 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 70% Complete
- SS7615 Broad River PS Miscellaneous Improvements – Design 95% Complete

### 3.2 Sewer System Hydraulic Model

The Hydraulic Model Report was submitted to EPA and SCDHEC on August 21, 2020. The City is awaiting EPA and SCDHEC review and approval of the Hydraulic Model Report.

## 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, 3<sup>rd</sup> Quarter 2023

City of Columbia, SC Quarterly SSO Listing 3rd Quarter 2023									
Date	Time	Location	Source	Date of Corrective Action	Time of Corrective Action	Estimated Volume (gallons)	Receiving Water (if any)	Cause	Actions Taken
7/1/2023	15:30	418 Winstaire Dr, Columbia, SC 29210	Cleanout	9/19/23	15:30	25		Debris	Removed Blockage To Resume Normal Flow. Installed City Cleanout.
7/6/2023	16:30	720 Elm Ave, Columbia, SC 29205	Other	7/7/2023	08:00	719		Collapsed Line	Washed Service Line To Try To Resume Normal Flow. Unable To Resume Flow. Emergency Service Lateral Point Repair.
7/7/2023	11:30	1035 Bendale Dr, Columbia, SC 29203	Cleanout	7/7/2023	15:00	40	Storm Drain	Equipment Failure	Ceased Washing Line.
7/10/2023	16:00	101 Sparkman Dr, Columbia, SC 29209	Cleanout	7/12/2023	12:00	12		Collapsed Line	Attempted To Remove Blockage. Service Lateral Point Repair.
7/26/2023	15:15	3533 Lee Hills Dr, Columbia, SC 29209	Cleanout	8/22/2023	12:00	15		Roots	Removed Blockage To Resume Normal Flow. Service Lateral CIPP.
7/30/2023	19:15	1601 N Woodstream Rd, Columbia, SC 29212	Cleanout	7/30/2023	19:15	37	Koon Branch Creek	Debris	Removed Stoppage To Resume Normal Flow. Service Line Washed To Remove Debris.
8/7/2023	14:40	1350 White House Rd, Columbia, SC 29209	Force Main	8/7/2023	23:00	495040	Trib To Gills Creek	Force Main	Set Up Two 8" Bypass Pumps, Shut Off Pump Stations Associated With Force Main. Closed ARV Valve On Force Main.
8/8/2023	01:15	5178 Bluff Rd, Columbia, SC 29209	Manhole	8/8/23	01:51	14000	Reeder Point Branch	Force Main	Restarted Pumps At Mill Creek Pump Station.
8/9/2023	16:49	5709 Ames Rd, Columbia, SC 29203	Manhole	8/9/2023	18:00	311		Collapsed Line	Washed Main Line To Resume Normal Flow. Manhole Repair To Remove Excess Line Protruding From Manhole.
8/17/2023	11:01	7596 N Woodrow St, Irmo, SC 29063	Cleanout	9/12/23	13:00	264	Storm Drain	Roots	Removed Blockage To Resume Normal Flow. Service Lateral CIPP.
8/17/2023	11:35	5418 Mauldin Ave, Columbia, SC 29203	Manhole	8/17/2023	12:20	100		Debris	Removed Stoppage To Resume Normal Flow. Main Line Washed, Setting Up On Preventive Maintenance.
8/19/2023	18:30	1423 Whaley St, Columbia, SC 29205	Manhole	8/19/2023	18:30	6		Debris	Made Access To Resume Flow. Removed Concrete From Manhole And Further Exposed The Invert Inside Manhole To Make Access.
9/5/2023	13:20	919 Catawba St, Columbia, SC 29201	Manhole	9/6/2023	16:30	360	Storm Drain	3rd Party Responsibility	Main Line Washed And Repaired.
9/6/2023	12:15	127 River Bluff Ct, Columbia, SC 29210	Cleanout	9/20/2023	12:00	10		Roots	Removed Stoppage To Resume Normal Flow. Service Lateral CIPP.
9/8/2023	11:00	861 SCarlet Oak Rd, Blythewood, SC 29016	Cleanout	9/8/2023	12:00	600		Debris	Removed Stoppage To Resume Normal Flow. Main Line Washed.
9/12/2023	17:17	244 Pineneedle Rd, Columbia, SC 29203	Manhole	9/12/2023	18:35	7015	Unnamed Trib To Smith Branch	Roots	Removed Stoppage To Resume Normal Flow. Main Line Root Cut.
9/10/2023	10:00	1523 Aralia Dr, Columbia, SC 29205	Other	9/11/2023	15:00	128		Collapsed Line	Used Vac Truck To Vac Up Liquids. Service Lateral Point Repair.
9/13/2023	00:10	1200 Simmon Tree Ln, Columbia, SC 29201	Other	9/13/23	12:20	80089	Storm Drain	3rd Party Responsibility	Utility Power Restored, Switched Screens To Manual And Reset The Operator Interface Terminal.
9/13/2023	04:00	1200 Simmon Tree Ln, Columbia, SC 29201	Manhole	9/13/23	04:15	2123		3rd Party Responsibility	Power Returned To Plant. Turned Mixed Sludge Pumps Back Online After Reset.
9/14/2023	11:15	3007 Whitehall Rd, Columbia, SC 29204	Manhole	TBD		10		Roots	Main Line Washed. Main Line Repair To Be Done.
9/18/2023	21:57	39 Acme St, Columbia, SC 29201	Manhole	9/18/2023	23:00	504		Collapsed Line	Removed Stoppage To Resume Normal Flow. Preventive Main Line Washed.
9/18/2023	12:56	1425 Dearborn Rd, Columbia, SC 29204	Manhole	9/21/2023	15:46	104	Storm Drain	Debris	Washed Main Line And Vacuumed Down Water In Manhole. Main Line Washed.
9/19/2023	13:00	5779 Ames Rd, Columbia, SC 29203	Cleanout	9/19/23	14:00	580	Storm Drain	Debris	Removed Stoppage To Resume Normal Flow. Main Line Washed.

City of Columbia, SC Quarterly SSO Listing 3rd Quarter 2023									
Date	Time	Location	Source	Date of Corrective Action	Time of Corrective Action	Estimated Volume (gallons)	Receiving Water (if any)	Cause	Actions Taken
9/20/2023	19:52	2716 Leesburg Rd, Columbia, SC 29209	Manhole	9/21/23	15:26	972	Storm Drain Ditch	Debris	Washed Main Line And Set Bypass Pump.
9/21/2023	18:00	507 Smiths Market Rd, Columbia, SC 29212	Other	9/22/2023	10:00	2450	Rawls Creek	Collapsed Line	Removed Stoppage To Resume Normal Flow. Main Line Repair.
9/26/2023	11:45	1308 Craven St, Columbia, SC 29203	Cleanout	9/26/23	14:05	300	Storm Drain	Equipment Failure	Ceased Washing Line.
9/29/2023	15:40	400 Calhoun St, Columbia, SC 29201	Other	9/30/2023	14:30	50		Collapsed Line	Washed Service Line. Emergency Service Lateral Point Repair.
9/29/2023	17:37	2209 Hillbeck Dr, Columbia, SC 29210	Cleanout	TBD		84		Collapsed Line	Washed Service Line To Resume Normal Flow. Service Line Tap To Be Reinstated.

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.

No building backups were identified within the City’s system for the current reporting period.