

# Clean Water 2020 Program

## **CONSENT DECREE QUARTERLY REPORT**

October 1, 2024 – December 31, 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.

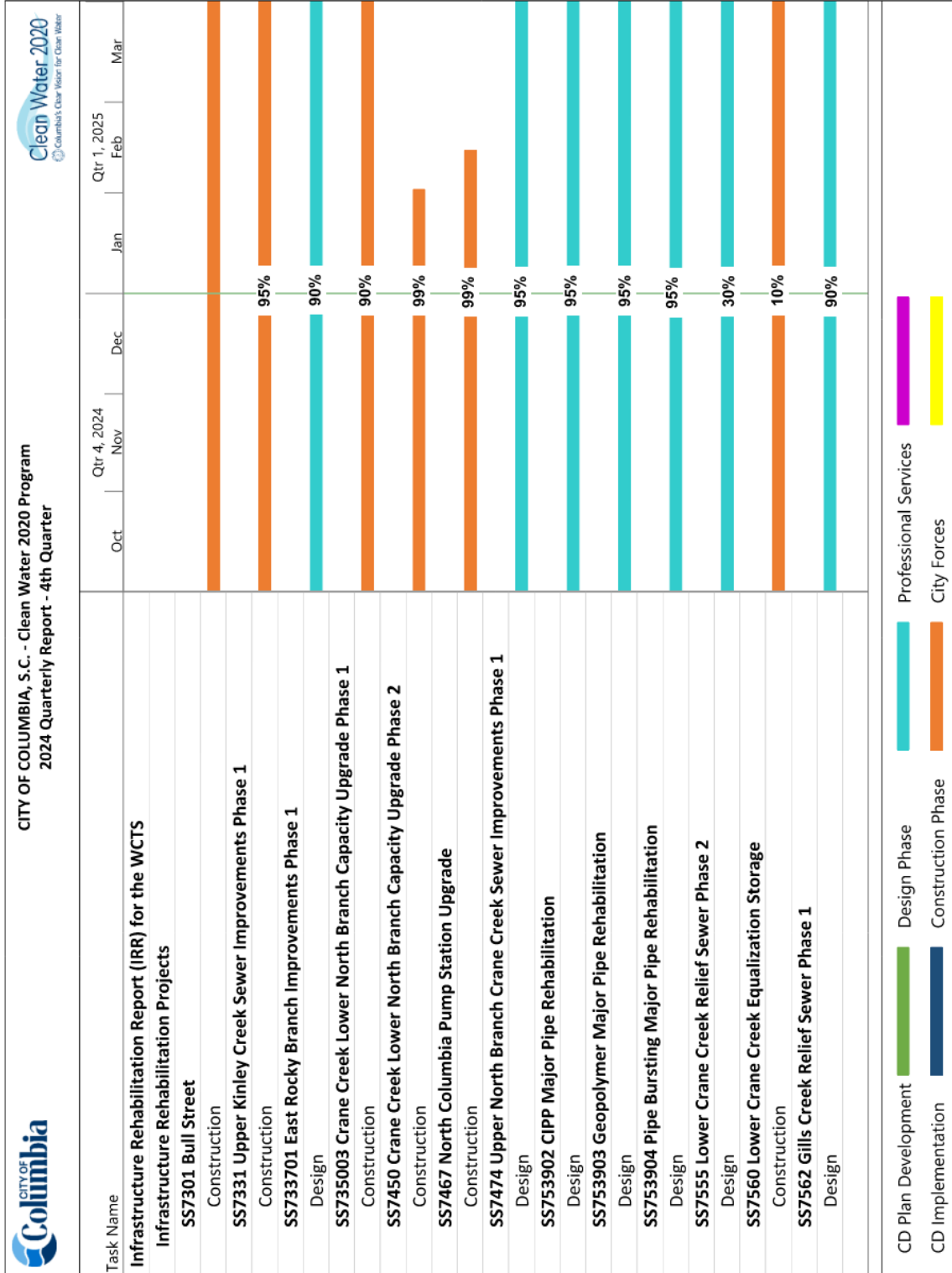
**Section 3 – Additional Information Demonstrating Implementation of Consent Decree Requirements**

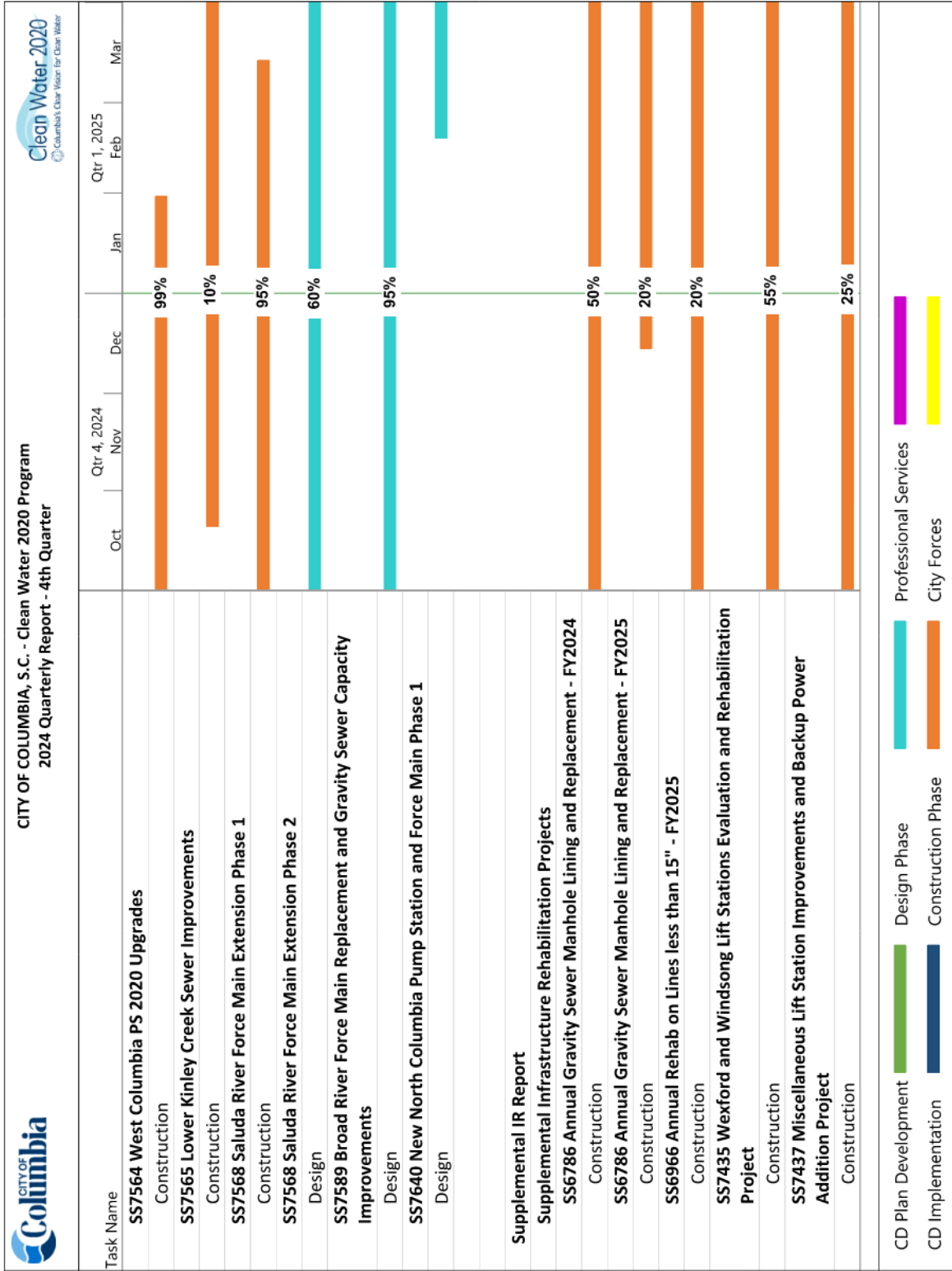
This section addresses the requirements of Section IX.39.a.(iv) of the Consent Decree and includes additional information that demonstrates that Columbia is implementing the remedial measures required in the CD. Information supplemental to that which is provided in Section 2 is provided in this section.

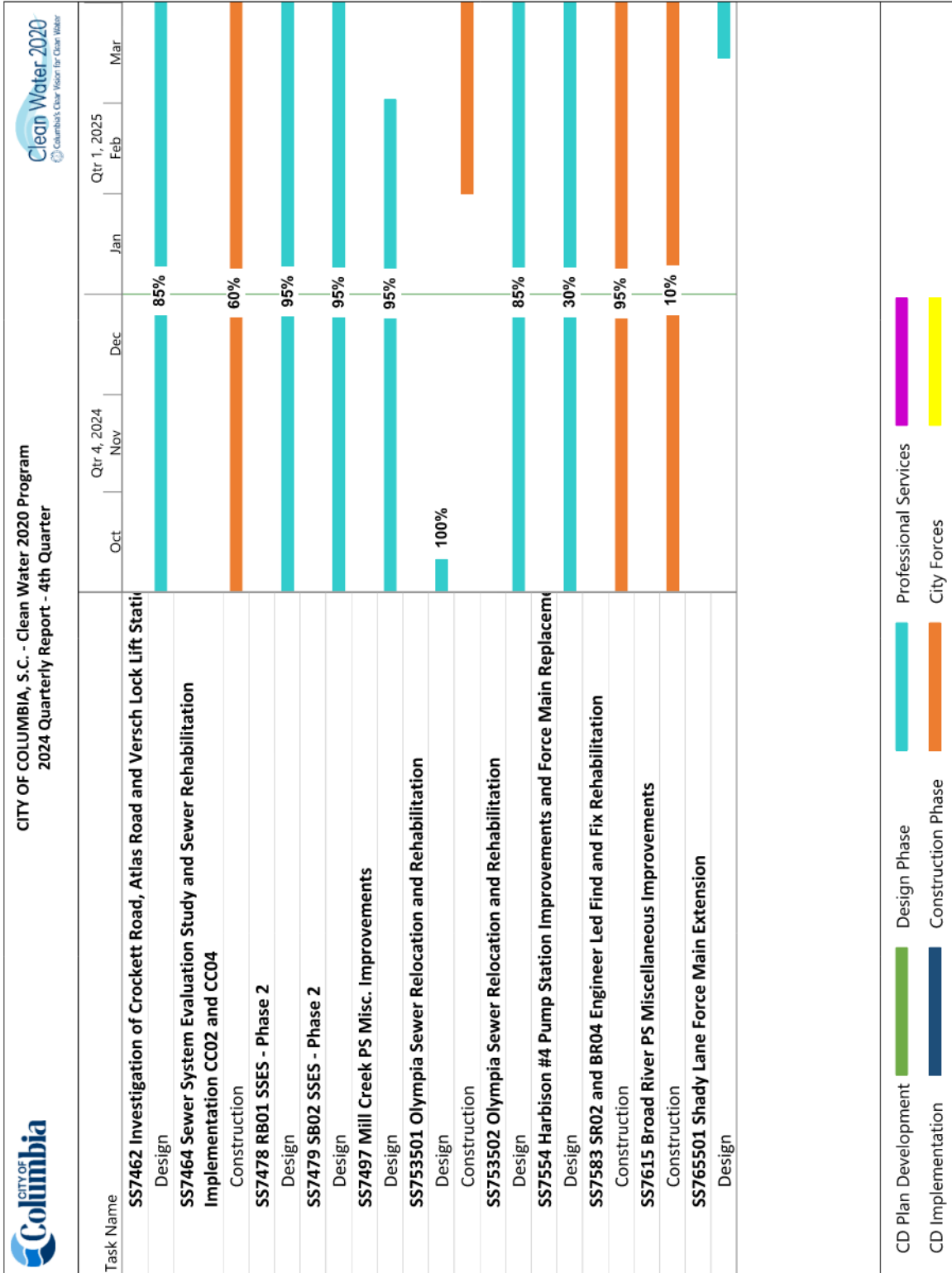
**Section 4 – Quarterly SSO Report**

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









## 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.

### 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 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:

- 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 95% Complete
- SS733701 East Rocky Branch Improvements Phase 1 – Design 90% Complete (Construction bids were received in 2024 Q4 but were significantly over budget. Project is currently under redesign by Consultant.)
- SS735003 Crane Creek Lower North Branch Capacity Upgrade Phase 1 – Construction 90% 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 10% 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 10% Complete
- SS7568 Saluda River Force Main Extension Phase 1 – Construction 95% 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
- SS7640 New North Columbia Pump Station and Force Main Phase 1 – Design 0% 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 50% Complete
- SS6786 Annual Gravity Sewer Manhole Lining and Replacement – FY2025 Construction 20% Complete
- SS6966 Annual Rehab on Lines less than 15" – FY2025 Construction 20% Complete
- SS7435 Wexford and Windsong Lift Stations Evaluation and Rehabilitation Project – Construction 55% Complete
- SS7437 Miscellaneous Lift Station Improvements and Backup Power Addition – Construction 25% Complete
- SS7462 Investigation of Crockett Road, Atlas Road and Versch Lock Lift Stations – Design 85% Complete
- SS7464 Sewer System Evaluation Study and Sewer Rehabilitation Implementation CC02 and CC04 – Construction 60% 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 95% Complete
- SS753501 Olympia Sanitary Sewer Relocation and Rehabilitation – Design 100% Complete and Construction 0% Complete
- SS753502 Olympia Sanitary Sewer Relocation and Rehabilitation – Design 85% 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 10% Complete
- SS765501 Shady Lane Force Main Extension – Design 0% 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.

**Table 1 – SSO Report, 4<sup>th</sup> Quarter 2024**

City of Columbia, SC Quarterly SSO Listing 4th Quarter 2024									
Date	Time	Location	Source	Date of Corrective Action	Time of Corrective Action	Estimated Volume (gallons)	Receiving Water (if any)	Cause	Actions Taken
10/7/2024	17:45	1402 Woodrow St, Columbia, SC 29205	Cleanout	10/24/2024	15:00	11		Collapsed Line	Root Cut Service Line To Remove Stoppage And Resume Normal Flow. Service Lateral Point Repair.
10/8/2024	12:15	1751 Shivers Rd, Columbia, SC 29210	Manhole	10/23/2024	12:00	6907		Roots	Washed Main Line To Remove Stoppage And Resume Normal Flow. Main Line Repair.
10/11/2024	19:00	1110 Bower Pkwy, Columbia, SC 29212	Manhole	10/11/2024	21:00	2801	Storm Drain	Debris	Washed Main Line To Remove Stoppage And Resume Normal Flow.
10/12/2024	17:00	6324 Cloverdale Dr, Columbia, SC 29209	Manhole	TBD		150	Storm Drain	Roots	Washed Main Line To Remove Stoppage And Resume Normal Flow. Manhole Repair To Be Done.
10/16/2024	05:00	1200 Simmon Tree Lane, Columbia, SC 29201	Manhole	10/16/2024	06:00	68	Storm Drain	Equipment Failure	Turned Off Flow To Train 1 DAF. Adjusted The Mix To Sludge Pumps.
10/16/2024	11:30	1115 S Kilbourne Rd, Columbia, SC 29205	Cleanout	10/16/2024	13:30	8		Debris	Washed Main Line To Remove Stoppage And Resume Normal Flow.
10/28/2024	19:50	317 Saddletrail Rd, Columbia, SC 29203	Cleanout	TBD		20	Storm Drain	Roots	Washed Service Line To Remove Stoppage And Resume Normal Flow. Lateral Repair To Be Done.
11/1/2024	10:40	5340 Forest Dr, Columbia, SC 29206	Cleanout	TBD		4660	Storm Drain	Debris	Washed Main Line To Attempt To Remove Stoppage And Resume Normal Flow. Set Up Bypass Pump As Stoppage Couldn't Be Removed. Main Line Repair To Be Done.
11/12/2024	10:10	1400 Waterbrook Dr, Columbia, SC 29212	Cleanout	11/14/2021	17:30	23		Collapsed Line	Washed Service Line To Remove Stoppage And Resume Normal Flow. Service Lateral Point Repair.
11/12/2024	13:00	2400 Leesburg Rd, Columbia, SC 29209	Manhole	11/12/2024	13:00	268	Mill Creek	Grease	Washed Main Line To Remove Stoppage And Resume Normal Flow.
11/13/2024	09:50	2400 Leesburg Rd, Columbia, SC 29209	Manhole	11/13/2024	12:00	150		Grease	Washed Main Line To Remove Stoppage And Resume Normal Flow.
11/14/2024	20:10	7014 Leitner Rd, Columbia, SC 29209	Cleanout	12/3/2024	14:57	1100		Roots	Washed Main Line To Remove Stoppage And Resume Normal Flow. Service Lateral Point Repair.
11/16/2024	03:00	1200 Simmon Tree Lane, Columbia, SC 29201	Manhole	11/16/2024	11/16/2024	567	Storm Drain	Equipment Failure	Blocked Storm Drains, Shut Off Pumps. Power Restored, Pumps Turned Back On.
11/18/2024	15:30	901 Taylor St, Columbia, SC 29201	Manhole	11/19/2024	12:00	120		Debris	Washed Main Line To Remove Stoppage And Resume Normal Flow.
11/21/2024	12:30	5200 Bluff Rd, Columbia, SC 29209	Pump Station	11/21/2024	13:00	3		Equipment Failure	Turned Off Bypass Pump. Replaced ARV.
11/21/2024	09:45	1929 Bluff Rd, Columbia, SC 29201	Pump Station	11/21/2024	10:10	184		Pump Station Failure	Flipped ATS To Normal Power. Restored Power.
11/25/2024	18:30	431 Finsbury Rd, Columbia, SC 29212	Cleanout	11/27/2024	12:00	15		Collapsed Line	Washed Service Line. Emergency Service Line Repair.
12/3/2024	22:52	3800 Plowden Rd, Columbia, SC 29205	Manhole	12/10/2024	15:30	4250	Storm Drain	Equipment Failure	Removed Main Line Plug To Restore Flow. Main Line Repair.
12/9/2024	17:00	1401 Longcreek Dr, Columbia, SC 29210	Manhole	12/9/2024	17:30	1968	Storm Drain	Grease	Washed Main Line To Remove Stoppage And Resume Normal Flow.
12/12/2024	16:00	3517 Lee Hills Dr, Columbia, SC 29209	Cleanout	12/31/2024	12:40	51		Roots	Root Cut Service Line. Service Line Point Repair.
12/16/2024	17:40	1515 Craven St, Columbia, SC 29203	Manhole	12/16/2024	18:00	1316	Storm Ditch	Grease	Washed Main Line To Remove Stoppage And Resume Normal Flow.
12/19/2024	17:10	1879 Cunningham Rd, Columbia, SC 29210	Cleanout	1/9/2025	14:23	2244	Creek/Storm Ditch	Collapsed Line	Washed Main Lines To Remove Stoppage And Resume Normal Flow. Main Line Repair.
12/23/2024	11:30	145 Atlas Ct, Columbia, SC 29209	Cleanout	12/23/2024	12:30	300	Storm Drain	Roots	Washed Main Line. Main Line Kit.
12/30/2024	09:15	133 Ida Ln, Columbia, SC 29203	Manhole	TBD		125	Storm Drain	Roots	Washed Main Line To Remove Stoppage And Resume Normal Flow. Manhole Repair To Be Done.
12/31/2024	07:50	212 T.S. Martin Dr, Columbia, SC 29204	Manhole	12/31/2024	12:00	6124	Storm Drain	Grease	Washed Main Line To Remove Stoppage And Resume Normal Flow.

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, 4<sup>th</sup> Quarter 2024**

City of Columbia, SC Quarterly Building Backup Listing 4th Quarter 2024									
Date	Time	Location	Source	Date of Corrective Action	Time of Corrective Action	Estimated Volume (gallons)	Receiving Water (if any)	Cause	Actions Taken
10/23/2024	11:15	203 Barmount Dr, Columbia, SC 29210	City	TBD		114		Roots	Washed Service Line To Remove Stoppage And Resume Normal Flow. Service Lateral CIPP To Be Done.