# Clean Water 2020 Program

# CONSENT DECREE QUARTERLY REPORT

July 1, 2022 – September 30, 2022



# **Table of Contents**

| Section 1 Introduction   |
|--|
| 1.1 Summary of Reporting Requirements  |
| 1.2 Report Organization  |
| Section 2 Schedule of Projects and Activities  |
| Section 3 Additional Information Demonstrating Implementation of Consent Decree Requirements 9 |
| 3.1 MOM Programs   |
| 3.1.1 Information Management System (IMS) Program  |
| 3.1.2 Sewer Mapping Program  |
| 3.2 Infrastructure Rehabilitation Report (IRR) for the WCTS10                                  |
| 3.3 Sewer System Hydraulic Model12   |
| Section 4 Quarterly SSO Report   |

# List of Tables

| Table 1 – SSO Report, 3rd Quarter 2022 |
|--|
|--|

## 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):

- 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;
- 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.

|   |      | Clean Value 2020       |
|---|------|------------------------|
| Task Name Qtr 3, 202  | Oct  | Qtr 4, 2022<br>Nov Dec |
|   |      | -                      |
| Information Management System (IMS) Program                           |      |                        |
| IMS Program Implementation  |      |                        |
| Capacity Assurance Program (CAP)                                      |      |                        |
| CAP CD Plan Development   |      |                        |
| Sewer Mapping Program (SMP)   |      |                        |
| SMP Implementation  |      |                        |
| Infrastructure Rehabilitation Report (IRR) for the WCTS               |      |                        |
| Infrastructure Rehabilitation Projects                                |      |                        |
| SS725802 Greenlawn Dr. to Burnside #1 PS (Hampton Forest) Phase 2     |      |                        |
| Construction  | -    |                        |
| SS7301 Bull Street  |      |                        |
| Construction  |      |                        |
| SS7331 Upper Kinley Creek Sewer Improvements Phase 1                  |      |                        |
| Design  | 66   |                        |
| SS733701 East Rocky Branch Improvements Phase 1                       |      |                        |
| Design  | 95%  |                        |
| SS733702 East Rocky Branch Improvements Phase 2                       |      |                        |
| Construction  | 95%  |                        |
| SS735003 Crane Creek Lower North Branch Capacity Upgrade Phase 1      |      |                        |
| Design  | 95%  |                        |
| SS7428 Lower Saluda River Relief Sewer and Major Pipe Rehabilitation  |      |                        |
| Construction  | 80%  |                        |
| SS7433 Cunningham Rd/Johnson Ave/Cramer Dr/Summerlea Dr Sewer Relocat |      |                        |
| Construction  | 95%  |                        |
| SS7450 Crane Creek Lower North Branch Capacity Upgrade Phase 2        |      |                        |
| Design  | 100% |                        |
| SS7467 North Columbia Pump Station Upgrade                            |      |                        |
| Design  | 95%  |                        |
| CD Plan Development Professional Services                             |      |                        |
|   |      |                        |

# Section 2 Schedule of Projects and Activities

Consent Decree Quarterly Report 2022 Q3

| 2022 Quarterly Report - 3rd Quarter                                  | 3rd Quarter           | 2022 Quarterly Report - 3rd Quarter | Columbia Cear Vision For Cean Vision |
|--|-----------------------|-------------------------------------|--------------------------------------|
| Task Name  | ŏ<br>                 | Qtr 3, 2022<br>Aun Sen              | Ort Nov Der                          |
| SS7474 Upper North Branch Crane Creek Sewer Improvements Phase 1     |                       |                                     |                                      |
| Design   |                       |                                     | %06                                  |
| SS7502 Summerlea SS Flood Project                                    |                       |                                     |                                      |
| Construction   |                       |                                     | 1%                                   |
| SS753902 CIPP Major Pipe Rehabilitation                              |                       |                                     |                                      |
| Design   |                       |                                     | 95%                                  |
| SS753903 Geopolymer Major Pipe Rehabilitation                        |                       |                                     |                                      |
| Design   |                       |                                     | 95%                                  |
| SS753904 Pipe Bursting Major Pipe Rehabilitation                     |                       |                                     |                                      |
| Design   |                       |                                     | 90%                                  |
| SS7555 Lower Crane Creek Relief Sewer Phase 2                        |                       |                                     |                                      |
| Design   |                       |                                     | 30%                                  |
| SS7560 Lower Crane Creek Equalization Storage                        |                       |                                     |                                      |
| Design   |                       |                                     | 75%                                  |
| SS7562 Gills Creek Relief Sewer Phase 1                              |                       |                                     |                                      |
| Design   |                       |                                     | 20%                                  |
| SS7564 West Columbia PS 2020 Upgrades                                |                       |                                     |                                      |
| Design   |                       | 1                                   | 100%                                 |
| SS7565 Lower Kinley Creek Sewer Improvements                         |                       |                                     |                                      |
| Design   |                       |                                     | 95%                                  |
| SS7568 Saluda River Force Main Extension Phase 1                     |                       |                                     |                                      |
| Design   |                       |                                     | %06                                  |
| SS7568 Saluda River Force Main Extension Phase 2                     |                       |                                     |                                      |
| Design   |                       |                                     | 30%                                  |
| SS7589 Broad River Force Main Replacement and Gravity Sewer Capacity |                       |                                     |                                      |
| Improvements   |                       |                                     |                                      |
| Design   |                       |                                     | 85%                                  |
|  |                       |                                     |                                      |
| CD Plan Development Design Phase P                                   | Professional Services | ces                                 |                                      |
|  |                       |                                     |                                      |

Clean Water 2020

| 2022 Quarterly Report - 3rd Quarter   | 2022 Quarterly Report - 3rd Quarter | Clean Water 2020           |
|---|-------------------------------------|----------------------------|
| Task Name   | Qtr 3, 2022 Sep                     | Qtr 4, 2022<br>Oct Nov Dec |
| Supplemental IR Report  |                                     |                            |
| Supplemental IR Report CD Plan Development                                    |                                     |                            |
| Supplemental Infrastructure Rehabilitation Projects                           |                                     |                            |
| SS6786 Annual Gravity Sewer Manhole Lining and Replacement - FY2022           |                                     |                            |
| Construction  | 10%                                 | %                          |
| SS6966 Annual Rehab on Lines less than 15" - FY2021                           |                                     |                            |
| Construction  | 85%                                 | %                          |
| SS7363 Smith Branch 03 SSES   |                                     |                            |
| Construction  | 95%                                 | %                          |
| SS7424 SSES and Sewer Rehabilitation Implementation BR02                      |                                     |                            |
| Construction  | 5%                                  | %                          |
| SS7425 SSES and Sewer Rehabilitation Implementation RB03                      |                                     |                            |
| Construction  | 99%                                 | %                          |
| SS7432 Starlite Pump Station Decommissioning and Basin Rehabilitation         |                                     |                            |
| Related Works   |                                     |                            |
| Design  | 95%                                 | %                          |
| SS7435 Wexford and Windsong Lift Stations Evaluation and Rehabilitation P     |                                     |                            |
| Design  | 95%                                 | %                          |
| SS7462 Investigation of Crockett Road, Atlas Road and Versch Lock Lift Stativ |                                     |                            |
| Design  | 80%                                 | %(                         |
| SS7463 SSES and Sewer Rehabilitation Implementation CC01                      |                                     |                            |
| Design  | 95%                                 | %                          |
| SS7464 Sewer System Evaluation Study and Sewer Rehabilitation Implemen        |                                     |                            |
| Design  | %06                                 | %(                         |
| SS7468 Three Rivers Force Main Replacement                                    |                                     |                            |
| Design  | 95%                                 | %                          |
| SS7478 RB01 SSES - Phase 2  |                                     |                            |
| Design  | 95%                                 | %                          |
| CD Plan Development Design Phase Design Phase Profess                         | Professional Services               |                            |
|   |                                     |                            |

| ES - Phase 2<br>ES - Phase 2<br>Ridge Drive Sewer Rehab<br>ek PS Misc. Improvements<br>ek PS Misc. Improvements<br>a Sewer Relocation and Rehabilitation<br>ane Force Main Replacement<br>nds Force Main Replacement<br>nds Force Main Replacement<br>ad BR04 Engineer Led Find and Fix Rehabilitation<br>d BR04 Engineer Led Find and Fix Rehabilitation | Task Name<br>SS7479 SB02 SSES - Phase 2<br>Design<br>SS7487 Hickorv Ridge Drive Sewer R |                                    |                       |                            |
|---|---|------------------------------------|-----------------------|----------------------------|
| 95%<br>15%  | SS7479 SB02 SSES - Phase 2<br>Design<br>SS7487 Hickorv Ridge Drive Sewer R              |                                    | Qtr 3, 2022<br>Aur    | Qtr 4, 2022<br>Oct Nov Dec |
|   | Design<br>SS7487 Hickory Ridge Drive Sewer R  |                                    | 5                     |                            |
|   | SS7487 Hickory Ridge Drive Sewer R  |                                    |                       | 95%                        |
|   |   | tehab                              |                       |                            |
|   | Construction  |                                    |                       |                            |
|   | SS7497 Mill Creek PS Misc. Improvei   | ments                              |                       |                            |
|   | Design  |                                    |                       | 75%                        |
|   | SS7535 Olympia Sewer Relocation at  | and Rehabilitation                 |                       |                            |
|   | Design  |                                    |                       | 75%                        |
|   | SS7548 Shady Lane Force Main Repl   | lacement                           |                       |                            |
|   | Construction  |                                    |                       |                            |
|   |   | lacement                           |                       |                            |
|   | Design  |                                    |                       | 99%                        |
|   | SS7554 Harbison #4 Pump Station In  | mprovements and Force Main Replace | Ť                     |                            |
|   | Design  |                                    |                       | 30%                        |
|   | SS7583 SR02 and BR04 Engineer Led   | d Find and Fix Rehabilitation      |                       |                            |
|   | Construction  |                                    |                       | 15%                        |
| SS7615 Broad River PS Miscellaneous Improvements  | SS7615 Broad River PS Miscellaneou  | us Improvements                    |                       |                            |
| Design  | Design  |                                    |                       | 5%                         |
|   | CD Plan Development   | Jesign Phase                       | Professional Services |                            |
| Design Phase  | 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.

### 3.1 MOM Programs

In accordance with Section V.12 of the CD, the City is developing and implementing specific Management, Operations, and Maintenance (MOM) programs. The Program elements addressed in this section provide information regarding activities involving the Metro WWTP as well as the City's Wastewater Collection and Transmission System (WCTS).

### 3.1.1 Information Management System (IMS) Program

The IMS Program was submitted to EPA and SCDHEC on January 4, 2016. The City received final approval of the IMS Program from EPA and SCDHEC on May 23, 2016.

The activities completed or in progress during the current reporting period are as follows:

• Sewer Mapping Program – 95% Complete

### 3.1.2 Sewer Mapping Program

In accordance with the requirements of the CD, the City was to develop and submit a Sewer Mapping Program (SMP) to EPA and SCDHEC within 60 days of the date of entry of the CD. The City received final approval of the SMP from EPA and SCDHEC on December 9, 2014.

Projects and significant activities completed during the current reporting period:

- The City continues to complete the electronic mapping of each Sewer Basin in accordance with the approved SMP implementation plan. Progress for each WCTS Minor Gravity Mapping basin is as follows:
  - West Columbia Basin 100% complete (Mapping complete as of June 9, 2020)
  - Smith Branch Basin 100% complete (Mapping complete as of June 9, 2021)
  - Saluda River Basin 100% complete (Mapping complete as of June 9, 2021)
  - Rocky Branch Basin 100% complete (Mapping complete as of June 9, 2021)
  - o Mill Creek Basin 64% complete
  - Gills Creek Basin 90% complete
  - o Crane Creek Basin 98% complete
  - Broad River Basin 75% complete

### 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 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 0% 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 Design 99% Complete
- SS733701 East Rocky Branch Improvements Phase 1 Design 95% Complete
- SS733702 East Rocky Branch Improvements Phase 2 Construction 95% Complete
- SS735003 Crane Creek Lower North Branch Capacity Upgrade Phase 1 Design 95% Complete
- SS7428 Lower Saluda River Relief Sewer and Major Pipe Rehabilitation Construction 80% Complete
- SS7433 Cunningham Rd/Johnson Ave/Cramer Dr/Summerlea Dr Sewer Relocation Construction 95% Complete
- SS7450 Crane Creek Lower North Branch Capacity Upgrade Phase 2 Design 100% Complete
- SS7467 North Columbia Pump Station Upgrade Design 95% Complete
- SS7474 Upper North Branch Crane Creek Sewer Improvements Phase 1 Design 90% Complete
- SS7502 Summerlea SS Flood Project Construction 1% Complete
- SS753902 CIPP Major Pipe Rehabilitation Design 95% Complete
- SS753903 Geopolymer Major Pipe Rehabilitation Design 95% Complete
- SS753904 Pipe Bursting Major Pipe Rehabilitation Design 90% Complete
- SS7555 Lower Crane Creek Relief Sewer Phase 2 Design 30% Complete
- SS7560 Lower Crane Creek Equalization Storage Design 75% Complete
- SS7562 Gills Creek Relief Sewer Phase 1 Design 70% Complete
- SS7564 West Columbia Pump Station Improvements Design 100% Complete
- SS7565 Lower Kinley Creek Sewer Improvements Design 95% Complete
- SS7568 Saluda River Force Main Extension Phase 1 Design 90% Complete
- SS7568 Saluda River Force Main Extension Phase 2 Design 30% Complete (Phase 2 Portion of Work was Split Out of Overall Project Just Prior to 90% Design Completion)
- SS7589 Broad River Force Main Replacement and Gravity Sewer Capacity Improvements Design 85% 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 is to be submitted within six months after the City has assessed the remainder of the entire WCTS pursuant to the CSAP. The deadline for submittal of the SIRR to EPA and SCDHEC is November 23, 2022.

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 10% Complete
- SS6966 Annual Rehab on Lines less than 15" FY2021 Construction 85% Complete
- SS7363 Smith Branch 03 SSES Construction 95% Complete
- SS7424 Sewer System Evaluation Study and Sewer Rehabilitation Implementation BR02 Construction 5% Complete
- SS7425 SSES and Sewer Rehabilitation Implementation RB03 Construction 99% Complete
- SS7432 Starlite PS Decommissioning and Basin Rehabilitation Related Works Design 95% Complete
- SS7435 Wexford and Windsong Lift Stations Evaluation and Rehabilitation Project Design 95% Complete
- SS7462 Investigation of Crockett Road, Atlas Road and Versch Lock Lift Stations Design 80% Complete
- SS7463 SSES and Sewer Rehabilitation Implementation CC01 Design 95% Complete
- SS7464 Sewer System Evaluation Study and Sewer Rehabilitation Implementation CC02 and CC04 – Design 90% Complete (Decrease in Design Completion % from Previous Reports due to Need to Redesign Portions of Project)
- SS7468 Three Rivers Force Main Replacement Design 95% 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 0% Complete
- SS7497 Mill Creek PS Miscellaneous Improvements Design 75% Complete (Decrease in Design Completion % from Previous Reports due to Need to Redesign Portions of Project)
- SS7535 Olympia Sanitary Sewer Relocation and Rehabilitation Design 75% Complete
- SS7548 Shady Lane Force Main Replacement Construction 0% Complete
- SS7549 Woodlands Force Main Replacement Design 99% 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 15% Complete
- SS7615 Broad River PS Miscellaneous Improvements Design 5% Complete

### 3.3 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.

|           |       |   |                          |                                 | City of Co                      | lumbia, SC                       |                                |                   |  |
|-----------|-------|---|--------------------------|---------------------------------|---------------------------------|----------------------------------|--------------------------------|-------------------|--|
|           |       |   |                          |                                 |                                 | SSO Listing                      |                                |                   |  |
|           |       |   |                          |                                 | -                               | rter 2022                        |                                |                   |  |
| Date      | Time  | Location                                      | Source                   | Date of<br>Corrective<br>Action | Time of<br>Corrective<br>Action | Estimated<br>Volume<br>(gallons) | Receiving<br>Water<br>(if any) | Cause             | Actions Taken  |
| 7/1/2022  | 14:00 | 4440 Bluff Rd, Columbia,<br>SC 29209          | Pump Station,<br>Manhole | OBSERVAT                        | TION ONLY                       | 2703                             |                                | Wet Weather       | Wet Weather; Observation Only. CIP<br>Engineering Project Currently in Design Phase.                                       |
| 7/4/2022  | 09:19 | 100 Emerald Lake Rd,<br>Columbia, SC 20209    | Manhole                  | 7/27/2022                       | 21:00                           | 2075                             | Storm Drain                    | Collapsed Line    | Removed Blockage To Resume Normal Flow.<br>Yearly PM Wash.   |
| 7/4/2022  | 19:20 | 900 Gracern Rd, Columbia,<br>SC 29210         | Manhole                  | OBSERVAT                        | TION ONLY                       | 1250                             | Storm Drain                    | Wet Weather       | Wet Weather; Observation Only.   |
| 7/7/2022  | 15:40 | 106 Doctor Cir, Columbia,<br>SC 29203         | Cleanout                 | 7/21/2022                       | 12:00                           | 150                              |                                | Roots             | Removed Blockage To Resume Normal Flow.<br>Service Line Repair.  |
| 7/14/2022 | 14:10 | 1875 Bentley Dr, Columbia,<br>SC 29210        | Other                    | 7/14/2022                       | 14:10                           | 6                                | Storm Drain                    | Equipment Failure | Stopped Contractor From Using Leaking Vac<br>Truck. Made Contractor Use A Containment<br>Device To Contain The Leak.       |
| 7/18/2022 | 17:45 | 943 W Confederate Ave,<br>Columbia, SC 29201  | Manhole                  | OBSERVAT                        | TION ONLY                       | 12                               | Storm Drain                    | Wet Weather       | Wet Weather; Observation Only. Inflow Dish<br>To Be Installed; Will Also Request Street<br>Division To Clear Storm Drains. |
| 7/19/2022 | 16:00 | 7119 Gavilan Ave,<br>Columbia, SC 29203       | Cleanout                 | 8/1/2022                        | 12:00                           | 59                               |                                | Debris            | Removed Blockage To Resume Normal Flow.<br>Service Line Wash To Remove Stick Stuck In<br>Tap.                              |
| 7/25/2022 | 12:43 | 1721 Shivers Rd, Columbia,<br>SC 29210        | Manhole                  | 7/26/2022                       | 08:00                           | 18618                            | Storm Water<br>Ditch           | Debris            | Removed Blockage To Resume Normal Flow.<br>Main Line Wash To Remove Debris From Line<br>00332Mh 00360Mh.                   |
| 7/25/2022 | 12:43 | 1721 Shivers Rd, Columbia,<br>SC 29210        | Manhole                  | 8/2/2022                        | 12:00                           | 168                              |                                | Debris            | Removed Blockage To Resume Normal Flow.<br>Used Tap Cutter To Cut Pvc Blockage Out Of<br>Pipe 00360Mh_00359Mh.             |
| 8/1/2022  | 16:00 | 2109 Read St, Columbia, SC<br>29204           | Cleanout                 | 8/18/2022                       | 15:30                           | 9                                |                                | Roots             | Removed Blockage To Resume Normal Flow.<br>Tap Repair.   |
| 8/9/2022  | 10:40 | 1051 Southern Dr,<br>Columbia, SC 29201       | Manhole                  | 8/12/2022                       | 09:45                           | 51                               |                                | Debris            | Remove Blockage To Resume Normal Flow.<br>Main Line Wash To Remove Debris From Line.                                       |
| 8/20/2022 | 22:23 | 2321 Chappelle St,<br>Columbia, SC 29203      | Manhole                  | 8/26/2022                       | 09:59                           | 14                               | Storm Water<br>Ditch           | Debris            | Main Line Wash To Remove Blockage To<br>Resume Normal Flow. PM Wash To Prevent<br>Debris Build Up.                         |
| 8/24/2022 | 14:21 | 1821 Woodsboro Dr,<br>Columbia, SC 29210      | Cleanout,<br>Manhole     | 8/27/2022                       | 08:00                           | 2395                             | Trib To Broad<br>River         | Roots             | Removed Blockage To Resume Normal Flow.<br>Main Line Repair.   |
| 8/25/2022 | 12:50 | 1826 Woodsboro, Dr,<br>Columbia, SC 29210     | Line Segment             | 8/27/2022                       | 08:00                           | 1800                             | Trib To Broad<br>River         | Collapsed Line    | Set Up Bypass Pump To Stop Overflow. Main<br>Line Repair.  |
| 8/25/2022 | 08:50 | 426 Pickens St, Columbia,<br>SC 29201         | Manhole                  | 8/25/2022                       | 09:30                           | 1420                             | Storm Drain                    | Debris            | Removed Blockage To Resume Normal Flow.<br>Main Line Wash To Remove Debris.  |
| 8/26/2022 | 09:30 | 1850 Saint Michaels Rd,<br>Columbia, SC 29210 | Service Line             | 8/26/2022                       | 10:00                           | 13                               | Trib To Broad<br>River         | Collapsed Line    | Service Line Repair.   |
| 8/29/2022 | 16:46 | 1401 Longcreek Dr,<br>Columbia, SC 29210      | Manhole                  | 9/25/2022                       | 12:00                           | 3442                             | Spill Reached A<br>Storm Drain | Debris            | Remove Blockage To Resume Normal Flow.<br>Manhole Repair.  |
| 9/8/2022  | 17:22 | 6169 Saint Andrews Rd,<br>Columbia, SC 29212  | Cleanout,<br>Manhole     | 9/9/2022                        | 08:00                           | 14                               | Storm Drain                    | Grease            | Removed Blockage To Resume Normal Flow.<br>Vacuumed Heavy Grease From Manholes.  |
| 9/8/2022  | 14:58 | 1210 Gardendale Dr,<br>Columbia, SC 29210     | Manhole                  | ті                              | 3D                              | 16                               |                                | Roots             | Removed Blockage To Resume Normal Flow.<br>Kit To Cover Roots To Be Installed.   |
| 9/12/2022 | 12:45 | 901 Colleton St, Columbia,<br>SC 29203        | Cleanout                 | 9/12/2022                       | 13:10                           | 375                              | Storm Water<br>Ditch           | Debris            | Removed Blockage To Resume Normal Flow.<br>Washed Service Line To Remove Debris.   |
| 9/16/2022 | 17:30 | 7545 Garners Ferry Rd,<br>Columbia, SC 29209  | Cleanout                 | TI                              | 3D                              | 15                               |                                | Collapsed Line    | Removed Blockage To Resume Normal Flow.<br>Service Line CIPP To Be Done.   |
| 9/19/2022 | 08:50 | 3808 Lester Dr, Columbia,<br>SC 29203         | Manhole                  | 9/19/2022                       | 12:00                           | 700                              | Storm Ditch                    | Debris            | Removed Blockage To Resume Normal Flow.<br>Removed Debris From Manhole (08557Mh).  |

#### Table 1 – SSO Report, 3rd Quarter 2022

|           | City of Columbia, SC<br>Quarterly SSO Listing |   |          |                                 |                                 |                                  |                                |                |   |  |  |
|-----------|---|---|----------|---------------------------------|---------------------------------|----------------------------------|--------------------------------|----------------|---|--|--|
|           |   |   |          |                                 | 3rd Qua                         | rter 2022                        |                                |                |   |  |  |
| Date      | Time  | Location                                  | Source   | Date of<br>Corrective<br>Action | Time of<br>Corrective<br>Action | Estimated<br>Volume<br>(gallons) | Receiving<br>Water<br>(if any) | Cause          | Actions Taken   |  |  |
| 9/21/2022 | 10:00   | 3700 Bush River Rd,<br>Columbia, SC 29210 | Manhole  | 9/26/2022                       | 15:00                           | 644                              | Storm Water<br>Ditch           | Debris         | Removed Blockage To Resume Normal Flow.<br>Washed Main Line To Remove Debris.                   |  |  |
| 9/21/2022 | 19:15   | 921 Marlboro St, Columbia,<br>SC 29201    | Manhole  | TE                              | BD                              | 4744                             | Storm Drain                    | Roots          | Bypass Pump Set Up. Main Line Will Be Sent To<br>A Contractor To Be Lined.                      |  |  |
| 9/22/2022 | 12:17   | 6530 Davidson St,<br>Columbia, SC 29209   | Manhole  | TE                              | 3D                              | 1078                             | Storm Drain                    | Roots          | Removed Blockage To Resume Normal Flow.<br>Corrective Action TBD Based on Ownership of<br>Line. |  |  |
| 9/24/2022 | 20:00   | 3616 Anwood Dr,<br>Columbia, SC 29209     | Cleanout | 10/4/2022                       | 13:00                           | 150                              |                                | Debris         | Removed Blockage To Resume Normal Flow.<br>Washed Main Line To Remove Broken Pipe.              |  |  |
| 9/27/2022 | 08:48   | 1300 Johnson Ave,<br>Columbia, SC 29203   | Other    | 9/30/2022                       | 15:00                           | 297                              | Storm Drain                    | Collapsed Line | Removed Blockage To Resume Normal Flow.<br>Service Line Repair.                                 |  |  |

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.