



# City of Chattanooga

Mayor Andy Berke

January 29, 2018

VIA CERTIFIED MAIL

Ms. Sara Janovitz  
Environmental Engineer  
Clean Water Enforcement Branch  
US EPA-Region 4  
61 Forsyth Street, SW  
Atlanta, GA 30303

**Re: *United States of America et. al. v. City of Chattanooga, No. 1:12-cv-0024*  
Semi-Annual Work Progress Report No. 9 – July 2017 to December 2017**

Dear Ms. Janovitz:

On behalf of the City of Chattanooga, Tennessee ("City"), and in accordance with the consent decree entered by the United States District Court for the Eastern District of Tennessee (Southern Division), on April 24, 2013, in the case styled the United States of America et. al. v. City of Chattanooga, No. 1:12-cv-0024 ("Consent Decree"), we are submitting to both the Environmental Protection Agency ("EPA") and the Tennessee Department of Environment and Conservation ("TDEC") the eighth semi-annual work progress report required pursuant to paragraph 39 of the Consent Decree. This report is also being submitted in accordance with the letter from Denise Diaz, dated September 16, 2013, establishing the dates for reporting under the Consent Decree.

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

Ms. Sara Janovitz  
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Please let me know if you have any questions regarding our submittal.

Sincerely,

A handwritten signature in blue ink that reads "Michael C. Patrick". The signature is written in a cursive style with a large, stylized "P" at the end.

Michael C. Patrick, P.E.  
Director, Waste Resources Division

Enclosure

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# Semi-Annual Work Progress Report No. 9

**July 1 – December 31, 2017**

*Prepared for*

**Environmental Protection Agency and  
Tennessee Department of Environment and  
Conservation**

City of Chattanooga  
Waste Resources Division  
Consent Decree Program  
Case No. 1:12-cv-00245

*Prepared by*

**City of Chattanooga**  
Waste Resources Division

*Submitted by*

**JACOBS**<sup>®</sup>  
Jacobs Engineering Group Inc.  
Consent Decree Program Manager

Chattanooga, Tennessee

January 29, 2018



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# Acronyms and Abbreviations

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ARAP	Aquatic Resource Alteration Permit
CAP	Capacity Assurance Program
CD	Consent Decree
CIPP	Cured in Place Pipe
CMOM	Capacity, Management, Operations, and Management
CSO	Combined Sewer Overflow
CSOTF	Combined Sewer Overflow Treatment Facility
CSS	Combined Sewer System
EFT	Electronic Funds Transfer
EPA	Environmental Protection Agency
ESIP	Enterprise South Industrial Park
FOG	Fats, Oils, and Grease
FSE	Food Service Establishments
GIPP	Green Infrastructure Program Plan
GLPMP	Gravity Line Preventative Maintenance Program
HVAC	Heating, Ventilation, and Air Conditioning
IPS	Influent Pump Station
ISS	Interceptor Sewer System
LF	Linear Feet
LTCP	Long Term Control Plan
MBWWTP	Moccasin Bend Wastewater Treatment Plant
MCC	Motor Control Center
MGD	Million Gallons per Day
N/A	Not Applicable

NOAA	National Oceanic and Atmospheric Administration
NPDES	National Pollution Discharge Elimination System
NTP	Notice to Proceed
PCP	Process Controls Program
PCCMP	Post Construction Compliance Monitoring Program
PDR	Public Document Repository
PLC	Programmable Logic Controller
PS	Pump Station
PSOP	Pump Station Operations Program
PSPMP	Pump Station Preventive Maintenance Program
RDII	Rain-derived Infiltration and Inflow
RFQ	Request for Quotation
SCADA	Supervisory Control and Data Acquisition
SORP	Sewer Overflow Response Protocol
SRF	State Revolving Funds
SSES	Sanitary Sewer Evaluation Study
SSO	Sanitary Sewer Overflow
SUO	Sewer Use Ordinance
TCWN	Tennessee Clean Water Network
TDEC	Tennessee Department of Environment and Conservation
TDOT	Tennessee Department of Transportation
USDOJ	United States Department of Justice
VFD	Variable Frequency Drive
WCTS	Waste Collection and Transmission System
WRD	Waste Resources Division
WWTA	Wastewater Treatment Authority



# 1.0 Executive Summary

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On April 24, 2013, the City of Chattanooga (“City”) entered into a consent decree with the United States and the State of Tennessee, in the case styled *United States of America et. al. v. City of Chattanooga, No. 1:12-cv-00245* (“CD”). This Semi-Annual Work Progress Report (Report) has been prepared pursuant to the requirements of paragraph 39 of the CD. In accordance with the CD, this Report presents the major milestones achieved in the last 6 months, and also provides projections for activities anticipated to be completed in the following 6 months. This Report presents milestones achieved from July 1, 2017 through December 31, 2017 (“Report Period”), and the projections cover the period of January 1, 2018 through June 30, 2018.

The City met all of the deadlines for this Report Period. During the Report Period, the City developed and submitted the deliverables that are listed in Table 1-1 to the Environmental Protection Agency (“EPA”) and the Tennessee Department of Environment and Conservation (“TDEC”) for review and approval. This information is also presented in Gantt chart format in Appendix A.

**Table 1-1**

Completed Projects and Submitted Consent Decree Deliverables for the Current Reporting Period

CD Projects and Deliverables	CD Reference	CD Deadline	Submittal Date/ Completion Date
Quarterly Report No. 16	Section IX., para 38	7/31/2017	7/26/2017
Quarterly Report No. 17	Section IX., para 38	10/31/2017	10/25/2017
Semi-Annual Work Progress Report No. 8	Section IX., para 39	7/31/2017	7/26/2017
Highland Park Sewer Rehabilitation	Section VI, para 22	4/24/2018	11/28/2017
MBWWTP Telemetry and Supervisory Control And Data Acquisition (“SCADA”) Upgrades	Section VI, para 22	4/24/2018	11/28/2017
Long Term Control Plan (“LTCP”)-Additional Operational Plan	Section VI, para 24	10/24/2017*	10/24/2017

\* Based on extension letter from EPA dated February 9, 2017

Table 1-2 lists the projects and deliverables that the City expects to complete during the upcoming semi-annual period of January 1, 2018 through June 30, 2018. This information is also available in Gantt chart format in Appendix A.

**Table 1-2**

Anticipated Completed Projects and Consent Decree Deliverables for the Next Reporting Period

<b>CD Projects and Deliverables</b>	<b>CD Reference</b>	<b>CD Deadline</b>	<b>Anticipated Submittal/ Completion Date</b>
Focused Sanitary Sewer Evaluation Services ("SSES") and Rehab – Chattanooga Creek 4	Section VI, para 21	7/24/2020	4/18/2018
Focused SSES and Rehab – Dobb's Branch 3	Section VI, para 21	7/24/2020	3/30/2018
Focused SSES and Rehab – South Chickamauga Creek 1-Phase 1	Section VI, para 21	7/24/2020	3/30/2018
Focused SSES and Rehab – South Chickamauga Creek 5	Section VI, para 21	7/24/2020	3/17/2018
DuPont Pump Station ("PS") and Basin Improvements – Phase 1	Section VI, para 22	4/24/2018	1/31/2018
East Brainerd PS Rehabilitation	Section VI, para 22	4/24/2018	3/28/2018
Orchard Knob PS Improvements	Section VI, para 22	4/24/2018	3/31/2018
Friars Branch Basin Improvements	Section VI, para 22	4/24/2018	3/3/2018
Agawela Drive Stream Restoration – Supplemental Environmental Project ("SEP")	Section VIII, para 31	4/24/2018	4/14/2018
Citico PS and CSOTF Upgrades**	Section IX, para 39(c)	N/A	2/21/2018
South Chick PS Phase II and Spring Creek PS Upgrades**	Section IX, para 39(c)	N/A	2/28/2018

\*\* Additional project per paragraph 39(c) of CD

## 2.0 Introduction

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### 2.1 Purpose

Pursuant to Section IX, paragraph 39, of the CD, the City is required to submit work progress reports on a semi-annual basis to the EPA and TDEC. Chattanooga has prepared this Report to satisfy this reporting requirement.

### 2.2 Requirements

As detailed in Section IX of the CD, the City is required to report the following information concerning compliance with the remedial actions set forth under the CD:

1. A description of projects and activities completed and milestones achieved during the previous 6-month period pursuant to the requirements of the CD, in Gantt chart or similar format, including a description of compliance or non-compliance with the requirements of the CD and, if applicable, the reasons for non-compliance;
2. A summary of significant projects and activities anticipated to be performed, and milestones anticipated to be achieved, in the successive 6-month period to comply with the requirements of the CD, in Gantt chart or similar format; and
3. Any additional information the City determines is appropriate to demonstrate that the City is implementing the remedial actions required under the CD in an adequate and timely manner.

### 2.3 Report Structure

Work progress is presented in the body of the Report in a narrative format. This narrative includes a brief description of each CD project, as well as any activities completed or milestones that were achieved or are anticipated to be completed. In addition to these descriptions, a detailed schedule containing each of the projects in Gantt format is provided in Appendix A.



## **3.0 Work Progress**

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### **3.1 Capacity, Management, Operations and Management (“CMOM”) Programs**

#### **3.1.1 CMOM-Sewer Overflow Response Protocol (“SORP”) (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 5 submitted January 27, 2016.

#### **3.1.2 CMOM-Emergency Response Plan (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 5 submitted January 27, 2016.

#### **3.1.3 CMOM-FOG Mgmt. Plan (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 5 submitted January 27, 2016. A revised FOG Plan was submitted to the EPA on September 28, 2016 and approved on December 7, 2016.

#### **3.1.4 CMOM-Gravity Line Preventive Maintenance Program (“GLPMP”) (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 5 submitted January 27, 2016.

#### **3.1.5 CMOM-PS Operations Program (“PSOP”) (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 5 submitted January 27, 2016.

#### **3.1.6 CMOM-PS Preventive Maintenance Program (“PSPMP”) (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 5 submitted January 27, 2016.

#### **3.1.7 CMOM-Hydraulic Model Development (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 6 submitted July 27, 2016.

#### **3.1.8 CMOM-CAP (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 7 submitted January 25, 2017.

### **3.1.9 CMOM-Inter-Jurisdictional Agreement Program (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 4 submitted July 24, 2015.

## **3.2 Sanitary Sewer Evaluation Study (“SSES”) Work Plan (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 5 submitted January 27, 2016. As part of the implementation of the plan, the following Phase I rehabilitation projects are being executed as described below.

### **3.2.1 Focused SSES and Rehabilitation-Chattanooga Creek 4**

This project represents 1 of the 5 Phase I priority sewer sub-basins and is being executed in accordance with Paragraph 21 of the CD. The Chattanooga Creek 4 sewer sub-basin consists of approximately 69,504 linear feet (“LF”) of sanitary sewer piping, ranging from 6-inch to 48-inch diameter. The Notice to Proceed (“NTP”) for professional services was issued April 19, 2013, and SSES investigations were completed on approximately 61,567 LF of sewer by April 2014. The Preliminary Engineering Report (“PER”) was submitted November 5, 2014 and approved November 7, 2014. Approximately 42,930 LF of sanitary sewer were designated for rehabilitation. The final design was submitted to TDEC for review on March 28, 2016 and approval was received on July 8, 2016. Bidding began on July 9, 2016 and construction began March 2, 2017. Construction is scheduled to be complete in the first half of 2018.

### **3.2.2 Focused SSES and Rehabilitation-Dobbs Branch 3**

This project represents 1 of the 5 Phase I priority sewer sub-basins and is being executed in accordance with Paragraph 21 of the CD. The Dobbs Branch 3 sewer sub-basin consists of approximately 47,381 LF of sanitary sewer piping, ranging from 6-inch to 24-inch diameter. The NTP for professional services was issued April 19, 2013, and SSES investigations were completed for approximately 44,740 LF of sewer by October 4, 2013. The PER was submitted to the City on May 15, 2014 and approved May 16, 2014. Approximately 32,225 LF of sanitary sewer were designated for rehabilitation. The design was completed and submitted to TDEC on October 6, 2015 and approval was received from TDEC on October 28, 2015. Bidding began on October 29, 2015, and NTP for construction was issued March 14, 2016. Final completion of the original contract was met on May 7, 2017. Additional work added to the contract included cleaning approximately 1,980 LF of 78” sewer interceptor and 48” triple barrel stream crossing immediately upstream of the 23rd street PS, as well as cleaning the wet well at the 23rd street PS. Cleaning is expected to be complete in the first half of 2018.

### **3.2.3 Focused SSES and Rehabilitation-South Chickamauga Creek 1 Phase 1 & Phase 2**

This project represents 1 of the 5 Phase I priority sewer sub-basins and is being executed in accordance with Paragraph 21 of the CD. The South Chickamauga Creek 1 sewer sub-basin consists of approximately 81,809 LF of sanitary sewer piping, ranging from 4-inch to 84-inch diameter.

Phase 1 - The NTP for professional services was issued June 26, 2013, and SSES investigations were completed for approximately 69,751 LF of sewer by January 17, 2014. Approximately 13,257 LF of sanitary sewer were designated for rehabilitation. Final design was completed and the project was submitted to TDEC for approval on November 26, 2016. Contract bidding began December 29, 2016 and the NTP for construction was issued July 7, 2017. Construction is anticipated to be complete in the first half of 2018.

Phase 2 - Based on the results of the SSES it was determined that a PS will be installed to eliminate portions of the gravity sewer located in the flood plain to increase I/I removal, and improve maintenance and reliability of the collection system infrastructure in the basin. An NTP for professional services is anticipated in the first half of 2018 with an estimated construction completion in the first half of 2020.

### **3.2.4 Focused SSES and Rehabilitation-South Chickamauga Creek 5**

This project represents 1 of the 5 Phase I priority sewer sub-basins and is being executed in accordance with Paragraph 21 of the CD. The South Chickamauga Creek 5 sewer sub-basin consists of approximately 89,414 LF of sanitary sewer piping, ranging from 6-inch to 36-inch diameter. The NTP for professional services was issued April 18, 2013, and SSES investigations were completed for approximately 73,923 LF of sewer piping in 2014. The PER was submitted on January 8, 2015 and approximately 19,560 LF of sanitary sewer were recommended for rehabilitation. Final design was completed and the project was submitted to TDEC on November 7, 2016 and approval was received February 10, 2017. Bidding began November 08, 2016 and construction began May 30, 2017. Construction is scheduled to be complete in the first half of 2018.

### **3.2.5 Focused SSES and Rehabilitation-South Chickamauga Creek 16 (completed)**

This project represents 1 of the 5 Phase I priority sewer sub-basins. This project has been completed. See Semi-Annual Report No. 5 submitted January 27, 2016.

## **3.3 Early Action Capital Improvement Projects**

### **3.3.1 SSO and Wet Weather Volume Reduction Projects**

#### **3.3.1.1 DuPont PS and Basin Improvements – Phase 1 and Phase 2**

The DuPont PS and Basin Improvements Phase 1 and 2 projects are being performed pursuant to Paragraph 22 and Appendix C of the CD.

Phase 1 includes SSES and rehabilitation of sewers within the DuPont PS service area which are within three selected sub-basins (North Chickamauga Creek 1, North Chickamauga Creek 3, and Tennessee River 10). The total amount of sewer estimated from these basins for SSES is approximately 270,008 LF ranging from 8-inch to 48-inch diameter. The NTP for Phase 1 professional services was issued on April 19, 2013, and SSES has been performed on approximately 242,966 LF of sewer piping and from the results of the SSES, approximately 27,468 LF of sanitary sewer and service pipelines were designated for rehabilitation and approximately 1,800 LF of pipeline will be relocated out of an environmentally sensitive area. The final PER was submitted on September 5, 2014, and the design was completed and submitted to TDEC for review and approval on August 24, 2015. TDEC approval was received December 2, 2015. The bidding phase began on December 3, 2015 and the NTP for construction was issued March 16, 2016. Construction began April 15, 2016 and is expected to be complete in the first half of 2018.

Phase 2 The original plan called for the design and construction of approximately 7.5 million gallons of wet weather storage and a new wet weather PS at the DuPont PS site. Prior to the start of construction in the first half of 2017, public concern of the nature of the project grew and the City decided to focus on other options. The new plan calls for the design and construction of an approximately 22 Million Gallons per Day (“MGD”) new wet weather PS further downstream of the existing DuPont PS site on City owned property in a commercial area where the DuPont-Lupton City interceptors merge. The project also includes a new diversion structure, standby generator, as well as the upsizing of approximately 7,000 LF section of gravity interceptor. The re-design is currently in progress utilizing the original professional services NTP of June 23, 2015. Work on the re-design will continue in the first half of 2018, with an estimated construction completion in the first half of 2020.

### **3.3.1.2 Collegedale PS Improvements (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 7 submitted January 25, 2017.

### **3.3.1.3 East Brainerd Collection System and PS Rehabilitation**

The East Brainerd Collection System and PS Rehabilitation project is being performed pursuant to Paragraph 22 and Appendix C of the CD. This project includes the SSES and rehabilitation of portions of the East Brainerd basin collection system and the upgrade of the PS. Improvements to the collection system and PS were designed as two different projects with two sets of contract documents.

Collections System Rehabilitation- This work has been completed. See Semi-Annual Report No. 5 submitted January 27, 2016.

PS Rehabilitation- The PS upgrade will include constructing one cast-in-place wet-well containing four submersible pumps and appurtenances; one precast electrical building approximately 20-feet by 30-feet containing variable frequency drives, necessary electrical gear to support the submersible pumps, restroom facility and HVAC units; a 30-inch force main



approximately 500 LF in length connecting the new PS with the discharge manhole at the force main sewer discharge; and an on-site emergency generator and switch gear to power the new PS. The NTP for professional services was issued March 26, 2011. The design was submitted to TDEC on August 2, 2014 and approval of the contract documents for the PS rehabilitation was received on January 29, 2015. Bids were received on May 7, 2015, and the contract was awarded on July 16, 2015. The NTP for the PS rehabilitation construction contract was issued August 7, 2015. The construction phase is scheduled to be complete in the first half of 2018.

#### **3.3.1.4 Altamont Sewer Basin and PS Improvements (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 2 submitted July 28, 2014.

#### **3.3.1.5 Pineville PS and Sewer Basin Improvements (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 3 submitted January 27, 2015.

#### **3.3.1.6 Citico Creek Interceptor Rehabilitation (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 2 submitted July 28, 2014.

#### **3.3.1.7 Highland Park Sewer Rehabilitation (completed)**

The Highland Park Sewer Rehabilitation project is being performed pursuant to Paragraph 22 and Appendix C of the CD. The sewer sub-basins in the Highland Park area consist of approximately 74,446 LF of sanitary sewer pipe ranging from 4-inch to 24-inch diameter. The NTP for professional services was issued April 19, 2013. The SSES investigation of this basin was completed for approximately 54,354 LF of sewer piping in April of 2015. From the results of the SSES, approximately 36,098 LF of sanitary sewer, service pipeline, and the associated manholes were designated to be rehabilitated. The final design was completed and submitted to TDEC for review on December 31, 2015. TDEC approval was received on April 26, 2016, and bidding began April 27, 2016. The NTP for construction was issued on August 30, 2016. Construction was completed November 28, 2017.

#### **3.3.1.8 Citico CSOTF PS Improvement Study (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 3 submitted January 27, 2015.

#### **3.3.1.9 Tremont Area Sewer Separation Study (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 2 submitted July 28, 2014.

#### **3.3.1.10 Enterprise South Industrial Park ("ESIP") PS, Force Main and Interceptor Upgrade (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 8 submitted July 26, 2017.

### **3.3.1.11 Orchard Knob PS Improvements**

The Orchard Knob PS Improvements project is being performed pursuant to Paragraph 22 and Appendix C of the CD. The upgrade involves the replacement of the existing pumps, piping, valves, electrical controls and instrumentation, and back-up generator. The NTP for professional services was issued January 22, 2013, and the final PER was submitted to the City on February 28, 2014. The final design was submitted to TDEC on August 20, 2015 and approval was received October 12, 2015. The project bid phase started on October 21, 2015 and the NTP for construction was issued March 18, 2016. Final completion is scheduled for the first half of 2018.

### **3.3.1.12 Friars Branch PS Improvements**

The Friars Branch PS Improvements project is being performed pursuant to Paragraph 22 and Appendix C of the CD. The purpose of this project is to design and construct improvements to increase reliability and extend the service life of the PS. This project involves replacement of the existing pumps, piping, effluent trough, electrical controls and instrumentation, and addition of an onsite odor control system. The NTP for professional services was issued April 19, 2013, and the final PER was submitted to the City on May 15, 2014. The final design was completed and submitted to TDEC for review October 30, 2015. Approval was received from TDEC on January 27, 2016. Bidding began January 28, 2016. Construction began December 9, 2016 and is scheduled for completion in the second half of 2018.

### **3.3.1.13 Friars Branch Basin Improvements**

The Friars Branch Basin Improvements project is being performed pursuant to Paragraph 22 and Appendix C of the CD. This project involves rehabilitation of portions of the collection system in the Friars Branch basin. The sewer basin consists of approximately 221,344 LF of sanitary sewer piping, ranging from 4-inch to 30-inch diameter. The NTP for professional services was issued on April 18, 2013 and SSES investigations were conducted on approximately 214,104 LF of sewer piping as of December 10, 2013. From the results of the SSES, approximately 20,827 LF of sanitary sewer, service pipeline, and the associated manholes were designated to be rehabilitated. The PER was approved by the City on January 28, 2015 and the design was completed and submitted to TDEC December 24, 2016. Construction began April 28, 2017 and is scheduled to be complete in the first half of 2018.

### **3.3.1.14 Chattanooga Creek Interceptor Rehabilitation (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 6 submitted July 27, 2016.

### **3.3.1.15 Tannery Flats Interceptor Rehabilitation (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 6 submitted July 27, 2016.

### **3.3.1.16 East Bank/West Bank ("EB/WB") Flow Monitoring (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 6 submitted July 27, 2016.

### **3.3.2 MBWWTP Projects**

#### **3.3.2.1 MBWWTP Secondary Clarifier Valve Motor Operator Replacement (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 8 submitted July 26, 2017.

#### **3.3.2.2 MBWWTP Hydraulic and Pump Improvements (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 8 submitted July 26, 2017.

#### **3.3.2.3 MBWWTP Bar and Fine Screen Replacements (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 8 submitted July 26, 2017.

#### **3.3.2.4 MBWWTP Effluent Disinfection System Upgrade (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 6 submitted July 27, 2016.

### **3.3.3 CSO Projects**

#### **3.3.3.1 Carter Street CSOTF Sewer Outfall Replacement (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 6 submitted July 27, 2016.

#### **3.3.3.2 Automation of Valve Operators at CSO Facilities (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 1 submitted January 30, 2014.

### **3.3.4 Operations Projects**

#### **3.3.4.1 South Chickamauga PS Reliability Improvements (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 1 submitted January 30, 2014.

#### **3.3.4.2 MBWWTP Telemetry and SCADA Upgrades (Completed)**

The MBWWTP Telemetry and SCADA Upgrades project is being performed pursuant to Paragraph 22 and Appendix C of the CD. This project involves updating and installing control and monitoring systems for reacting to and controlling equipment to convey wastewater to the MBWWTP. The design includes upgrading the existing Motorola radio system at all remote sites. The remote sites with a "high consequence of failure" will be added to the City's Regional Public Safety Wireless Mesh Network to provide redundant communication. NTP for professional services was issued on January 23, 2013. The final design was completed and submitted to TDEC for review on October 17, 2015 and approval was received on November

10, 2015. Bidding began November 10, 2015. Construction began November 13, 2016 and was completed on November 28, 2017.

### **3.4 Long Term Control Plan (“LTCP”) Updates**

#### **3.4.1 LTCP-Additional Operational Plan (“AOP”) (Completed)**

The LTCP-Additional Operational Plan is being developed pursuant to Paragraph 24(a) of the CD. This program will result in a plan for the Chattanooga Creek CSO Outfalls (Central Avenue CSO and William Street CSO). The plan will augment Chattanooga’s current CSO control measures with additional long term controls to ensure that discharges from these CSOs meet State water quality standards. The NTP for professional services was issued March 13, 2015. Work on this plan continued through the second half of 2016, with several major milestones during the Reporting Period. Implementation of the sampling plan described in the Post Construction Compliance Monitoring Program yielded water quality and flow data that was used to begin calibrating the Cormix receiving water model. Unfortunately, 2016 had 36% less rain in Chattanooga than normal according to the City’s rain monitoring vendor and, thus, there were not enough discharge sampling events available during the monitoring period to validate the model. The National Oceanic and Atmospheric Administration (“NOAA”) predicted higher than normal precipitation for early 2017. In January 2017, the City submitted a 6-month extension to the AOP deadline in order to capture the discharge sampling events required to successfully validate the model. All water quality and flow samples were obtained and modeling was completed on September 7, 2017. The AOP was submitted to EPA for review on October 16, 2017.

#### **3.4.2 LTCP-Post Construction Compliance Monitoring Program (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 3 submitted January 27, 2015.

### **3.5 MBWWTP Process Controls Program (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 3 submitted January 27, 2015.

### **3.6 Green Infrastructure (“GI”) Program Plan for CSS Basins (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 5 submitted January 27, 2016.

## 3.7 Civil Penalty

Compliance with Section VII of the CD requires the payment of the sum of \$476,400 as a civil penalty. Payment of the civil penalty is to be made as follows:

- Cash Payment – 50% of the civil penalty (\$238,200) is to be paid to the United States by FedWire Electronic Funds Transfer. This payment was made to EPA on May 17, 2013.
- State Project – the remaining 50% of the civil penalty is to be spent on the state project in accordance to Appendix D of the CD.

### 3.7.1 Cash Payment (completed)

In accordance with Paragraph 29 of the CD, the cash payment of \$238,200 was made to EPA on May 17, 2013.

### 3.7.2 Highland Park GI Demonstration Project

The Highland Park Green Infrastructure Demonstration Project (“State Project”) is currently being performed pursuant to Appendix D of the CD. The State Project involves retrofitting a portion of the Highland Park neighborhood in Chattanooga with green infrastructure through the use of green infrastructure practices such as streetscapes, pervious pavement, tree boxes, bio-swales and bio-retention facilities. The NTP for professional services was issued January 1, 2013. A project plan was developed and submitted to the EPA on October 24, 2013, and approval of the plan was received April 25, 2014. The final design was approved by the EPA on October 23, 2014. The bid phase began on October 23, 2014, and construction began May 25, 2017. Construction is scheduled to be complete in the first half of 2018, and the GI design workshop is scheduled to occur in the second half of 2018.

## 3.8 Agawela Drive Stream Restoration – SEP

The SEP is being performed pursuant to Section VIII and Appendix E of the CD. The Agawela Drive Stream Restoration targets a tributary of the South Chickamauga Creek, which is currently on the 303(d) list for habitat alteration and sediment. The SEP involves restoration of a minimum of 1,500 LF of the tributary and is designed to significantly improve water quality of both the tributary and South Chickamauga Creek. The NTP for professional services was issued on January 23, 2013, and the PER was submitted to the City May 21, 2013. TDEC issued the Aquatic Resource Alternation Permit (“ARAP”) permit on August 17, 2015. Bidding began February 25, 2016 and the NTP for construction services was issued on June 27, 2016. The substantial completion certificate was submitted on December 24, 2016 and final completion is scheduled for the first half of 2018. Additionally the SEP Completion Report required per paragraph 33 of the CD will be submitted in the first half of 2018.

## 3.9 Reporting Requirements

Compliance with Section IX of the CD requires the City to submit the following reports on a calendar schedule:

- Quarterly Reports, including detailed information on Chattanooga's SSOs, CSO discharges and bypasses at the MBWWTP;
- Semi-Annual Work Progress Reports, including CD deliverable milestones achieved in the last 6 months and projections for activities anticipated to be completed in the following 6 months; and
- Annual Reports, including trends and analyses of the results of the Chattanooga CD programs including CMOM and SSO reduction programs.

To date, the following reports have been submitted to the EPA:

- Quarterly Reports 1 – 17;
- Semi-Annual Work Progress Reports 1 – 8, and
- Annual Report 1 - 4.

The following reports will be submitted to the EPA during (or shortly after) the next Reporting Period:

- Quarterly Reports 17 and 18;
- Semi-Annual Work Progress Report 9; and
- Annual report 5.

## 3.10 Stipulated Penalties

Paragraph 48 of the CD sets forth the nine categories of CD violations or milestones subject to stipulated penalties under the CD. On June 22, 2017, the United States made a demand for stipulated penalties in the amount of \$93,850 covering the period of July 1, 2014 through December 31, 2016 under the consent decree. The payment was made July 18, 2017.

## **4.0 Additional Work**

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According to paragraph 39(c) of the CD, the City is required to include in this Report “any additional information Chattanooga determines is appropriate to demonstrate that Chattanooga is implementing the remedial actions required under this Consent Decree in an adequate and timely manner.” The purpose of this section is to address this requirement of the CD.

In addition to the work progress achieved in accordance with the CD as described in the previous sections, the City continued to implement remedial and improvement efforts under the existing Capital Improvement Program during the Reporting Period. The work described below is aimed at assessing and improving Chattanooga’s Interceptor Sewer System (“ISS”). While not required by the CD, these projects directly impact Chattanooga’s on-going effort to reduce and eliminate SSOs.

### **4.1 201 Facility Plan Update (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 7 submitted January 25, 2017.

### **4.2 MBWWTP Backup Electrical Power (complete)**

This project has been completed. See Semi-Annual Work Progress Report No. 6 submitted July 27, 2016

### **4.3 Citico PS and CSOTF Upgrades**

The Citico PS and CSOTF Upgrades project involves the design and construction of pumping improvements to the Citico CSOTF to restore ISS capacity, improve reliability, reduce SSOs, and comply with State and Federal regulations. The project includes an evaluation of the Citico PS to determine improvements necessary to operate the PS at design capacity as well as design and construction oversight of the selected improvements. A consultant has been contracted to perform the design and the NTP for professional services was issued on January 27, 2015. TDEC approval of the plans was received November 30, 2016. Bidding commenced July 14, 2016, and construction began December 1, 2016. Construction is estimated to be complete in the first half of 2018.

### **4.4 South Chick PS Phase II and Spring Creek PS Upgrades**

The South Chick PS Phase II and Spring Creek PS Upgrades project will evaluate and design additional reliability improvements for the South Chickamauga Creek PS, including replacement of the sluice gates and bar screens and rehabilitation of the PS wet well. This project will also

evaluate and design improvements for the Spring Creek PS in order to meet or exceed the rated capacity of the existing PS. Improvements for both pumping stations have been scoped under a single contract. The NTP for professional services was awarded on May 6, 2015. Comments were received from TDEC on May 4, 2016 and plans were resubmitted May 16, 2016. TDEC approval was received August 3, 2016. Bidding commenced on August 4, 2016 and the NTP for construction services was issued October 27, 2016 and construction for rehabilitation of the Northwest Georgia Interceptor was completed April 10, 2017. Additional evaluation of the Spring Creek PS force main using SmartBall technology was performed October 11, 2017, but due to field issues, analysis of the data has not been performed. The evaluation is anticipated to be completed in the first half of 2018.

#### **4.5 Carter Street Sewer Rehabilitation (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 8 submitted July 26, 2017.

#### **4.6 MBWWTP – Detritors Rehabilitation**

This project involves the rehabilitation and upgrade of the influent grit detritors and related splitter box at the MBWWTP. This project will improve reliability and prevent equipment failure that could lead to bypasses during peak flows by updating aging infrastructure. The NTP for professional services was awarded on July 1, 2015. The project was submitted to TDEC on October 28, 2016, and approval was received on December 12, 2016. Bidding began December 13, 2016, and construction began March 26, 2017. Construction is anticipated to be complete in the second half of 2018.

#### **4.7 Friar’s Branch-South Chick Creek 5 Interceptor Rehabilitation**

This project involves the rehabilitation of portions of the collection system in the Friars Branch and South Chickamauga Creek 5 Sub Basins using trenchless technologies. Approximately 23,640 LF of gravity sewer line was identified for evaluation. Trenchless rehabilitation allows the City to conduct the repairs while limiting disturbances to the areas near the work site. The NTP for professional services was awarded on August 6, 2015 and SSES investigations were conducted on approximately 23,640 LF of sewer line. From the results of the SSES, approximately 9,469 LF of sanitary sewer, service pipeline, and associated manholes were designated to be rehabilitated. The PER was approved February 2, 2016 and bidding began November 18, 2017. Construction is expected to commence in the first half of 2018.

#### **4.8 MBWWTP-Control Room Upgrades**

This project involves improvements to the existing MBWWTP control room with including building renovations, computer hardware, software, and logic coding upgrades to the SCADA System. The upgrades will allow the Waste Resources Division (“WRD”) to operate and manage the wastewater system more efficiently and reliable through the SCADA system. The NTP for



professional services was awarded on November 30, 2015. Bidding commenced on May 16, 2017, and construction began December 23, 2017. Construction is anticipated to be complete in the second half of 2018.

## **4.9 Citico PS Reliability Improvements**

This project consists of the addition of an emergency backup pumping system, the addition of an emergency standby generator that is capable of running the entire station at its rated flowrate of 117 MGD, and electrical reliability improvements. The NTP for professional services was issued November 23, 2016. Construction bidding began May 16, 2017, and construction began on September 1, 2017. Construction is anticipated to be complete in the second half of 2018.

## **4.10 Brainerd Golf Course PS Safety Upgrade**

This project involves making safety improvements to the East Brainerd Golf Course PS. This work includes the replacement and upgrade of the existing pumps, piping, valves, electrical and instrumentation equipment. The upgrades will allow the station to increase its capacity, performance and reliability and help to reduce SSOs in the area. The Request for Quotation (“RFQ”) for professional services was issued on December 20, 2016, and the project is currently in the design phase. Bidding is scheduled to begin in the first half of 2018.

## **4.11 Wet Weather Combined Sewer Storage – Phase 1 & Phase 2**

This project is a major component of the ISS plan to reduce system overflows and stay within compliance of the EPA mandated Chattanooga CD Program. This project will construct Phase I & II of wet weather storage system at the Hamm Rd site and store peak wet weather flows, prevent sanitary sewer overflows at the West Bank Overflow, and meet the future capacity requirements as set forth in the Consent Decree. The project will also increase reliability throughout the combined and sanitary sewer system in the event of a power or mechanical failure. This project will provide the City with the system capacity necessary to approve future developments and promote growth throughout the City and surrounding areas. The NTP for professional services was awarded on November 3, 2017, and the project is currently in the planning phase. Bidding is anticipated to commence in the second half of 2018.

## **4.12 MBWWTP Secondary Clarifier Upgrades and Additions**

The MBWWTP Secondary Upgrades and Additions project is required under Paragraph 22 and Appendix C of the CD. The project will provide evaluation and design of improvements to increase the MBWWTP secondary treatment capacity from 140 MGD to 150 MGD. Improvements involve the addition of two new secondary clarifiers, flow control to new and existing clarifiers, additional chlorine contact volume, and associated yard piping. An evaluation of the liquid stream processes at the plant will also be conducted. The NTP for professional services was issued February 12, 2015 and the PER was completed in November of 2015. The detailed design was completed and submitted to TDEC for approval on May 16, 2016 and

approval was received July 7, 2016. Bidding began July 20, 2016. Bidding was completed March 27, 2017 and construction commenced March 28, 2017. The project is anticipated to be complete in the second half of 2018.

### **4.13 CSOTF Study (completed)**

This project has been completed. See Semi-Annual Work Progress Report No. 8 submitted July 26, 2017.

### **4.14 CSOTF Improvements - Phase 1**

This project includes structural, instrumentation and SCADA control changes to the CSOTF facilities in improves reliability and capacity utilization. An NTP for professional services is anticipated in the first half of 2018 with an estimated construction completion in the first half of 2019.

### **4.15 South Chickamauga Creek 4 Rehabilitation**

This project involves the rehabilitation of sanitary sewer pipe and manholes located in the South Chickamauga Creek Sewer Basin. This project will improve the reliability and structural integrity of the existing pipe and will remove unwanted inflow and infiltration from the system. Trenchless technology methods are being analyzed to reduce construction and permitting costs. An NTP for professional services is anticipated in the first half of 2018 with an estimated construction completion in the second half of 2020.

### **4.16 Tennessee River 13 Rehabilitation**

This project involves the rehabilitation of sanitary sewer pipe and manholes located in the Tennessee River Sewer Basin. This project will improve the reliability and structural integrity of the existing pipe and will remove unwanted inflow and infiltration from the system. Trenchless technology methods are being analyzed to reduce construction and permitting costs. An NTP for professional services is anticipated in the first half of 2018 with an estimated construction completion in the second half of 2020.

### **4.17 Friars Branch Interceptor Improvements - Phase 1**

This project involves the rehabilitation of sanitary sewer pipe and manholes located in the Friars Branch Sewer Basin. This project will improve the reliability and structural integrity of the existing pipe and will remove unwanted inflow and infiltration from the system. Trenchless technology methods are being analyzed to reduce construction and permitting costs. An NTP for professional services is anticipated in the first half of 2018 with an estimated construction completion in the second half of 2020.

# Appendix A

## Project Schedules Gantt Chart

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Activity ID	Activity Name	Start	Actual Start	Finish	Actual Finish	Duration % Complete	2010												2011												2012												2013												2014												2015												2016												2017												2018												2019												2020											
							Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4																																
							Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4																																																																														
<b>Chattanooga Consent Decree Deliverables Schedule</b>							<b>Chattanooga Consent Decree Deliverables Schedule</b>																																																																																																																																			
<b>Program Milestones</b>							<b>Program Milestones</b>																																																																																																																																			
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OO1000	Consent Decree Effective Date	24-Apr-13 A	24-Apr-13	24-Apr-13 A	24-Apr-13	100%	Consent Decree Effective Date																																																																																																																																			
<b>Section VI - Compliance Requirements</b>							<b>Section VI - Compliance Requirements</b>																																																																																																																																			
<b>Para 19 - Community Input Plan</b>							<b>Para 19 - Community Input Plan</b>																																																																																																																																			
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A4310	Consent Decree Duration	24-Apr-13 A	24-Apr-13	24-Nov-13 A	24-Nov-13	100%	Consent Decree Duration Completion Milestone																																																																																																																																			
<b>Community Input Plan</b>							<b>Community Input Plan</b>																																																																																																																																			
BC1010	Community Input Plan Development	24-Apr-13 A	24-Apr-13	24-Nov-13 A	24-Nov-13	100%	Community Input Plan Development																																																																																																																																			
BC1020	Community Input Plan Submitted to WWRAB	25-Nov-13 A	25-Nov-13	25-Nov-13 A	25-Nov-13	100%	Community Input Plan Submitted to WWRAB																																																																																																																																			
<b>Para 20 - CMOM</b>							<b>Para 20 - CMOM</b>																																																																																																																																			
<b>CMOM-Sewer Overflow Response Protocol (SORP)</b>							<b>CMOM-Sewer Overflow Response Protocol (SORP)</b>																																																																																																																																			
<b>Consent Decree Duration (7 Months)</b>							<b>Consent Decree Duration (7 Months)</b>																																																																																																																																			
OA0100	Consent Decree Duration (7 Months)	24-Apr-13 A	24-Apr-13	25-Nov-13 A	25-Nov-13	100%	Consent Decree Duration (7 Months)																																																																																																																																			
OA0110	Consent Decree Duration Completion Milestone			25-Nov-13 A	25-Nov-13	100%	Consent Decree Duration Completion Milestone																																																																																																																																			
<b>Project Procurement</b>							<b>Project Procurement</b>																																																																																																																																			
OA0200	PM Procurement	15-Jul-12 A	15-Jul-12	15-Jul-12 A	15-Jul-12	100%	Project Procurement																																																																																																																																			
<b>Planning Phase</b>							<b>Planning Phase</b>																																																																																																																																			
OA0010	Administration Period	15-Jul-12 A	15-Jul-12	28-Feb-13 A	28-Feb-13	100%	Administration Period																																																																																																																																			
OA1000	Planning Phase	01-Mar-13 A	01-Mar-13	22-Oct-13 A	22-Oct-13	100%	Planning Phase																																																																																																																																			
<b>Public Document Repository</b>							<b>Public Document Repository</b>																																																																																																																																			
OA2000	Submit Draft Deliverable to Reference Librarian	23-Oct-13 A	23-Oct-13	23-Oct-13 A	23-Oct-13	100%	Submit Draft Deliverable to Reference Librarian																																																																																																																																			
OA2010	Post Copy of Draft Deliverable on City's Website	23-Oct-13 A	23-Oct-13	23-Oct-13 A	23-Oct-13	100%	Post Copy of Draft Deliverable on City's Website																																																																																																																																			
OA2020	Public Review Period	24-Oct-13 A	24-Oct-13	24-Nov-13 A	24-Nov-13	100%	Public Review Period																																																																																																																																			
OA2030	Public Comment Review Period	23-Nov-13 A	23-Nov-13	25-Nov-13 A	25-Nov-13	100%	Public Comment Review Period																																																																																																																																			
OA2040	Submit Deliverable to EPA, TDEC and Provide notice to TCWN			25-Nov-13 A	25-Nov-13	100%	Submit Deliverable to EPA, TDEC and Provide notice to TCWN																																																																																																																																			
<b>EPA and TDEC Approvals</b>							<b>EPA and TDEC Approvals</b>																																																																																																																																			
OA0900	Place Copy of EPA and TDEC Submittal in PDR	26-Nov-13 A	26-Nov-13	04-Dec-13 A	04-Dec-13	100%	Place Copy of EPA and TDEC Submittal in PDR																																																																																																																																			
OA0910	EPA / TDEC Review	26-Nov-13 A	26-Nov-13	28-May-14 A	28-May-14	100%	EPA / TDEC Review																																																																																																																																			
OA0920	Address Comments for Final EPA/ TDEC Approval	29-Mar-14 A	29-Mar-14	29-May-14 A	29-May-14	100%	Address Comments for Final EPA/ TDEC Approval																																																																																																																																			
OA0930	Submit Copy of Approved Deliverable in the PDR (within 7 days following Receipt of Approval by EPA)	30-May-14 A	30-May-14	05-Jun-14 A	05-Jun-14	100%	Submit Copy of Approved Deliverable in the PDR (within 7 days following Receipt of Approval by EPA)																																																																																																																																			
<b>CMOM-Emergency Response Plan</b>							<b>CMOM-Emergency Response Plan</b>																																																																																																																																			
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OB0100	Consent Decree Duration (19 Months)	24-Apr-13 A	24-Apr-13	24-Nov-14 A	24-Nov-14	100%	Consent Decree Duration (19 Months)																																																																																																																																			
OB0110	Consent Decree Duration Completion Milestone			24-Nov-14 A	24-Nov-14	100%	Consent Decree Duration Completion Milestone																																																																																																																																			
<b>Project Procurement</b>							<b>Project Procurement</b>																																																																																																																																			
OB1000	CD Prequalification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP	18-Oct-12 A	18-Oct-12	01-Dec-12 A	01-Dec-12	100%	CD Prequalification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP																																																																																																																																			
OB1010	Consultant develops and Submit Scope and Cost proposal	18-Oct-12 A	18-Oct-12	27-Oct-12 A	27-Oct-12	100%	Consultant develops and Submit Scope and Cost proposal																																																																																																																																			
OB1020	PMO Reviews/ Negotiates and Approve Proposal / Agreement	18-Oct-12 A	18-Oct-12	27-Oct-12 A	27-Oct-12	100%	PMO Reviews/ Negotiates and Approve Proposal / Agreement																																																																																																																																			
OB1030	PMO Approved Agreement to Council for Approval	18-Oct-12 A	18-Oct-12	04-Nov-12 A	04-Nov-12	100%	PMO Approved Agreement to Council for Approval																																																																																																																																			
OB1040	Consultant Signed Agreement to City for Execution	18-Oct-12 A	18-Oct-12	31-Oct-12 A	31-Oct-12	100%	Consultant Signed Agreement to City for Execution																																																																																																																																			
<b>Planning Phase</b>							<b>Planning Phase</b>																																																																																																																																			
OB2000	Planning Phase	23-Jan-13 A	23-Jan-13	12-Oct-14 A	12-Oct-14	100%	Planning Phase																																																																																																																																			
OB2010	Program Manager / Owner Review and Coordination	21-Aug-14 A	21-Aug-14	12-Oct-14 A	12-Oct-14	100%	Program Manager / Owner Review and Coordination																																																																																																																																			
<b>Public Document Repository</b>							<b>Public Document Repository</b>																																																																																																																																			
OB3000	Submit Draft Deliverable to Reference Librarian	13-Oct-14 A	13-Oct-14	13-Oct-14 A	13-Oct-14	100%	Submit Draft Deliverable to Reference Librarian																																																																																																																																			
OB3010	Post Copy of Draft Deliverable on City's Website	13-Oct-14 A	13-Oct-14	13-Oct-14 A	13-Oct-14	100%	Post Copy of Draft Deliverable on City's Website																																																																																																																																			
OB3020	Public Review Period	12-Oct-14 A	12-Oct-14	17-Nov-14 A	17-Nov-14	100%	Public Review Period																																																																																																																																			
OB3030	Public Comment Review Period	18-Nov-14 A	18-Nov-14	20-Nov-14 A	20-Nov-14	100%	Public Comment Review Period																																																																																																																																			
OB3040	Submit Deliverable to EPA, TDEC and Provide notice to TCWN			20-Nov-14 A	20-Nov-14	100%	Submit Deliverable to EPA, TDEC and Provide notice to TCWN																																																																																																																																			
<b>EPA and TDEC Approvals</b>							<b>EPA and TDEC Approvals</b>																																																																																																																																			
OB0900	Place Copy of EPA and TDEC Submittal in PDR	21-Nov-14 A	21-Nov-14	24-Nov-14 A	24-Nov-14	100%	Place Copy of EPA and TDEC Submittal in PDR																																																																																																																																			
OB0910	EPA / TDEC Review	21-Nov-14 A	21-Nov-14	12-Mar-15 A	12-Mar-15	100%	EPA / TDEC Review																																																																																																																																			
OB0920	Address Comments for Final EPA/ TDEC Approval	13-Mar-15 A	13-Mar-15	28-Jul-15 A	28-Jul-15	100%	Address Comments for Final EPA/ TDEC Approval																																																																																																																																			
OB0930	Submit Copy of Approved Deliverable in the PDR (within 7 days following Receipt of Approval by EPA)	08-Dec-15 A	08-Dec-15	14-Dec-15 A	14-Dec-15	100%	Submit Copy of Approved Deliverable in the PDR (within 7 days following Receipt of Approval by EPA)																																																																																																																																			
<b>CMOM-Fats, Oils, and Grease (FOG) Mgmt. Plan</b>							<b>CMOM-Fats, Oils, and Grease (FOG) Mgmt. Plan</b>																																																																																																																																			
<b>Consent Decree Duration (13 Months)</b>							<b>Consent Decree Duration (13 Months)</b>																																																																																																																																			
		24-Apr-13 A	24-Apr-13	27-May-14 A	27-May-14	100%	Consent Decree Duration (13 Months)																																																																																																																																			



**CHATTANOOGA CONSENT DECREE PROGRAM - PHASE I**  
**CITY OF CHATTANOOGA, TN**  
**WASTE RESOURCES DIVISION**







Activity ID	Activity Name	Start	Actual Start	Finish	Actual Finish	Duration % Complete	2009		2010				2011				2012				2013				2014				2015				2016				2017				2018				2019				2020			
							Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4								
<b>Consent Decree Duration (87 Months)</b>							Consent Decree Duration (87 Months)																																													
OL1250	Consent Decree Duration	24-Apr-13 A	24-Apr-13	27-Jul-20		0%	Consent Decree Duration																																													
OL1260	Consent Decree Duration Milestone	24-Apr-13 A	24-Apr-13	27-Jul-20		0%	Consent Decree Duration																																													
<b>Project Procurement Phase</b>							Project Procurement Phase																																													
OL1200	Project Procurement Phase	01-Dec-17 A	01-Dec-17	01-Apr-18		0%	Project Procurement Phase																																													
<b>Planning Phase</b>							Planning Phase																																													
OL1210	Planning Phase	02-Apr-18		30-Jun-18		0%	Planning Phase																																													
<b>Engineering Phase</b>							Engineering Phase																																													
OL1220	Engineering Phase	01-Jul-18		27-Dec-18		0%	Engineering Phase																																													
<b>Construction Bidding Phase</b>							Construction Bidding Phase																																													
OL1230	Construction Bidding Phase	28-Dec-18		27-Mar-19		0%	Construction Bidding Phase																																													
<b>Construction Phase</b>							Construction Phase																																													
OL1240	Construction Phase	28-Mar-19		21-Mar-20		0%	Construction Phase																																													
<b>SSES Work Plan</b>							SSES Work Plan																																													
<b>Consent Decree Duration (19 Months)</b>							Consent Decree Duration (19 Months)																																													
OI1110	Consent Decree Duration	24-Apr-13 A	24-Apr-13	24-Nov-14 A	24-Nov-14	100%	Consent Decree Duration																																													
OI1120	Consent Decree Duration Completion Milestone	24-Apr-13 A	24-Apr-13	24-Nov-14 A	24-Nov-14	100%	Consent Decree Duration																																													
<b>Project Procurement</b>							Project Procurement																																													
OI1000	PM Procurement	15-Jul-12 A	15-Jul-12	15-Jul-12 A	15-Jul-12	100%	Consent Decree Duration Completion Milestone																																													
<b>Planning Phase</b>							Planning Phase																																													
OI1005	Administration Phase	15-Jul-12 A	15-Jul-12	16-Oct-14 A	16-Oct-14	100%	Administration Phase																																													
OI1010	Planning Phase	15-Jul-12 A	15-Jul-12	16-Oct-14 A	16-Oct-14	100%	Planning Phase																																													
OI1130	Program Manager / Owner Review and Coordination	12-Sep-14 A	12-Sep-14	16-Oct-14 A	16-Oct-14	100%	Program Manager / Owner Review and Coordination																																													
<b>Public Document Repository</b>							Public Document Repository																																													
OI1020	Submit Draft Deliverable to Reference Librarian	17-Oct-14 A	17-Oct-14	20-Nov-14 A	20-Nov-14	100%	Public Document Repository																																													
OI1030	Post Copy of Draft Deliverable on City's Website	17-Oct-14 A	17-Oct-14	17-Oct-14 A	17-Oct-14	100%	Submit Draft Deliverable to Reference Librarian																																													
OI1040	Public Review Period	18-Oct-14 A	18-Oct-14	17-Nov-14 A	17-Nov-14	100%	Post Copy of Draft Deliverable on City's Website																																													
OI1050	Public Comment Review Period	18-Nov-14 A	18-Nov-14	18-Nov-14 A	18-Nov-14	100%	Public Review Period																																													
OI1060	Submit Deliverable to EPA, TDEC and Provide notice to TCWN			20-Nov-14 A	20-Nov-14	100%	Public Comment Review Period																																													
<b>EPA and TDEC Approvals</b>							EPA and TDEC Approvals																																													
OI1070	Place Copy of EPA and TDEC Submittal in PDR	21-Nov-14 A	21-Nov-14	24-Nov-14 A	24-Nov-14	100%	Submit Deliverable to EPA, TDEC and Provide notice to TCWN																																													
OI1080	EPA Review and Approval	21-Nov-14 A	21-Nov-14	12-Mar-15 A	12-Mar-15	100%	Place Copy of EPA and TDEC Submittal in PDR																																													
OI1090	TDEC Review and Approval	21-Nov-14 A	21-Nov-14	12-Mar-15 A	12-Mar-15	100%	EPA Review and Approval																																													
OI1092	Revise Submittal Documents	13-Mar-15 A	13-Mar-15	04-May-15 A	04-May-15	100%	TDEC Review and Approval																																													
OI1094	Final EPA Review and Approval	05-May-15 A	05-May-15	08-Jun-15 A	08-Jun-15	100%	Revise Submittal Documents																																													
OI1096	Final TDEC Review and Approval	09-Jun-15 A	09-Jun-15	13-Jul-15 A	13-Jul-15	100%	Final EPA Review and Approval																																													
OI1100	Submit Copy of Approved Deliverable in the PDR (within 7 days following Receipt of Approval by EPA)	14-Jul-15 A	14-Jul-15	20-Jul-15 A	20-Jul-15	100%	Final TDEC Review and Approval																																													
<b>Focused SSES and Rehab - Chattanooga Creek 4</b>							Focused SSES and Rehab - Chattanooga Creek 4																																													
<b>Consent Decree Duration (87 Months)</b>							Consent Decree Duration (87 Months)																																													
OJ1110	Consent Decree Duration	24-Apr-13 A	24-Apr-13	27-Jul-20*		64.56%	Consent Decree Duration																																													
OJ1120	Consent Decree Duration Completion Milestone	24-Apr-13 A	24-Apr-13	27-Jul-20*		0%	Consent Decree Duration																																													
<b>Project Procurement</b>							Project Procurement																																													
OJ3010	CD Prequalification Procurement (FY 2012 - 2013) Priority II - Development and Issuance of RFP	12-Dec-12 A	12-Dec-12	18-Apr-13 A	18-Apr-13	100%	CD Prequalification Procurement (FY 2012 - 2013) Priority II - Development and Issuance of RFP																																													
OJ3020	Consultant develops and Submit Scope and Cost proposal	16-Feb-13 A	16-Feb-13	01-Mar-13 A	01-Mar-13	100%	Consultant develops and Submit Scope and Cost proposal																																													
OJ3030	PMO Reviews/ Negotiates and Approve Proposal / Agreement	02-Mar-13 A	02-Mar-13	15-Mar-13 A	15-Mar-13	100%	PMO Reviews/ Negotiates and Approve Proposal / Agreement																																													
OJ3040	PMO Approved Agreement to Council for Approval	16-Mar-13 A	16-Mar-13	22-Mar-13 A	22-Mar-13	100%	PMO Approved Agreement to Council for Approval																																													
OJ3050	Consultant Signed Agreement to City for Execution	23-Mar-13 A	23-Mar-13	18-Apr-13 A	18-Apr-13	100%	Consultant Signed Agreement to City for Execution																																													
<b>Planning Phase</b>							Planning Phase																																													
OJ1010	Planning Phase	29-Apr-13 A	29-Apr-13	22-Apr-14 A	22-Apr-14	100%	Planning Phase																																													
OJ1130	SRF Facility Plan Approval	24-Oct-13 A	24-Oct-13	22-Apr-14 A	22-Apr-14	100%	SRF Facility Plan Approval																																													
<b>Engineering Phase</b>							Engineering Phase																																													
OJ1020	Engineering	11-Jul-14 A	11-Jul-14	08-Jul-16 A	08-Jul-16	100%	Engineering																																													
OJ1030	SRF Approval of Contract Documents	29-Mar-16 A	29-Mar-16	08-Jul-16 A	08-Jul-16	100%	SRF Approval of Contract Documents																																													
<b>Construction Bidding Phase</b>							Construction Bidding Phase																																													
OJ2000	Construction Bidding Phase	09-Jul-16 A	09-Jul-16	23-Jan-17 A	23-Jan-17	100%	Construction Bidding Phase																																													
OJ2010	SRF Administration Period	01-Nov-16 A	01-Nov-16	02-Dec-16 A	02-Dec-16	100%	SRF Administration Period																																													
<b>Construction Phase</b>							Construction Phase																																													
OJ3000	Construction Phase	02-Mar-17 A	02-Mar-17	03-Apr-18		68.24%	Construction Phase																																													
<b>EPA and TDEC Approvals</b>							EPA and TDEC Approvals																																													
OJ1070	Notification of Completion to EPA, TDEC, TCWN	04-Apr-18		04-Apr-18		0%	Notification of Completion to EPA, TDEC, TCWN																																													
<b>Focused SSES and Rehab - Dobb's Branch 3</b>							Focused SSES and Rehab - Dobb's Branch 3																																													
<b>Consent Decree Duration (87 Months)</b>							Consent Decree Duration (87 Months)																																													
OK1040	Consent Decree Duration	24-Apr-13 A	24-Apr-13	27-Jul-20		64.56%	Consent Decree Duration																																													
OK1050	Consent Decree Duration Completion Milestone	24-Apr-13 A	24-Apr-13	27-Jul-20*		0%	Consent Decree Duration																																													
<b>Project Procurement</b>							Project Procurement																																													



- Summary
- Actual Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
- Baseline Milestone

**CHATTANOOGA CONSENT DECREE PROGRAM - PHASE I**  
CITY OF CHATTANOOGA, TN  
WASTE RESOURCES DIVISION







Activity ID	Activity Name	Start	Actual Start	Finish	Actual Finish	Duration % Complete	2009				2010				2011				2012				2013				2014				2015				2016				2017				2018				2019				2020			
							Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2								
<b>Consent Decree Duration (87 Months)</b>							Consent Decree Duration (87 Months)																																															
ON1040	Consent Decree Duration	24-Apr-13 A	24-Apr-13	27-Jul-20*		64.56%	Consent Decree Duration																																															
ON1050	Consent Decree Duration Completion Milestone	24-Apr-13 A	24-Apr-13	27-Jul-20*		0%	Consent Decree Duration Completion Milestone																																															
<b>Project Procurement</b>							Project Procurement																																															
ON1090	Previously Procured Consent Decree Projects	07-Sep-12 A	07-Sep-12	07-Sep-12 A	07-Sep-12	100%	Previously Procured Consent Decree Projects																																															
<b>Planning Phase</b>							Planning Phase																																															
ON1000	Planning Phase	25-Mar-11 A	25-Mar-11	30-May-13 A	30-May-13	100%	Planning Phase																																															
ON1060	SRF Facility Plan Approval	07-Sep-12 A	07-Sep-12	26-Mar-13 A	26-Mar-13	100%	SRF Facility Plan Approval																																															
<b>Engineering Phase</b>							Engineering Phase																																															
ON1010	Engineering	27-Mar-12 A	27-Mar-12	29-Mar-13 A	29-Mar-13	100%	Engineering Phase																																															
ON1020	SRF Approval of Contract Documents	30-Mar-13 A	30-Mar-13	06-Aug-13 A	06-Aug-13	100%	SRF Approval of Contract Documents																																															
<b>Construction Bidding Phase</b>							Construction Bidding Phase																																															
ON1070	Construction Bidding Phase	07-Aug-13 A	07-Aug-13	17-Dec-13 A	17-Dec-13	100%	Construction Bidding Phase																																															
ON1075	SRF Administration Period	18-Dec-13 A	18-Dec-13	02-Mar-14 A	02-Mar-14	100%	SRF Administration Period																																															
<b>Construction Phase</b>							Construction Phase																																															
ON1080	Construction Phase	03-Mar-14 A	03-Mar-14	15-Dec-15 A	15-Dec-15	100%	Construction Phase																																															
<b>EPA and TDEC Approvals</b>							EPA and TDEC Approvals																																															
ON1030	Notification of Completion to EPA, TDEC, TCWN	30-Nov-15 A	30-Nov-15	15-Dec-15 A	15-Dec-15	100%	Notification of Completion to EPA, TDEC, TCWN																																															
<b>Para 22 - Early Action Capital Improvement Projects</b>							Para 22 - Early Action Capital Improvement Projects																																															
<b>DuPont PS and Basin Improvements - Phase 2</b>							DuPont PS and Basin Improvements - Phase 2																																															
<b>Consent Decree Duration (60 Months)</b>							Consent Decree Duration (60 Months)																																															
AO1040	Consent Decree Duration	24-Apr-13 A	24-Apr-13	24-Apr-18		93.71%	Consent Decree Duration																																															
AO1050	Consent Decree Duration Completion Milestone	24-Apr-13 A	24-Apr-13	24-Apr-18*		0%	Consent Decree Duration Completion Milestone																																															
<b>Project Procurement</b>							Project Procurement																																															
AO1090	CD Prequalification Procurement (FY 2014 - 2015) - Development and Issuance of RFP	25-Apr-15 A	25-Apr-15	23-Jun-15 A	23-Jun-15	100%	CD Prequalification Procurement (FY 2014 - 2015) - Development and Issuance of RFP																																															
AO1100	Consultant develops and Submit Scope and Cost proposal	02-May-15 A	02-May-15	09-May-15 A	09-May-15	100%	Consultant develops and Submit Scope and Cost proposal																																															
AO1110	PMO Reviews/ Negotiates and Approve Proposal / Agreement	10-May-15 A	10-May-15	16-May-15 A	16-May-15	100%	PMO Reviews/ Negotiates and Approve Proposal / Agreement																																															
AO1120	PMO Approved Agreement to Council for Approval	17-May-15 A	17-May-15	08-Jun-15 A	08-Jun-15	100%	PMO Approved Agreement to Council for Approval																																															
AO1130	Consultant Signed Agreement to City for Execution	09-Jun-15 A	09-Jun-15	23-Jun-15 A	23-Jun-15	100%	Consultant Signed Agreement to City for Execution																																															
<b>Planning Phase</b>							Planning Phase																																															
AO1000	Planning Phase	18-Dec-17 A	18-Dec-17	05-Apr-18		11.93%	Planning Phase																																															
<b>Engineering Phase</b>							Engineering Phase																																															
AO1010	Engineering	06-Apr-18		13-Nov-18		0%	Engineering Phase																																															
AO1020	SRF Approval of Contract Documents	11-Oct-18		13-Nov-18		0%	SRF Approval of Contract Documents																																															
<b>Construction Bidding Phase</b>							Construction Bidding Phase																																															
AO1070	Construction Bidding Phase	11-Oct-18		06-Dec-18		0%	Construction Bidding Phase																																															
AO1075	SRF Administration Period	07-Dec-18		18-Jan-19		0%	SRF Administration Period																																															
<b>Construction Phase</b>							Construction Phase																																															
AO1080	Construction Phase	19-Jan-19		08-May-20		0%	Construction Phase																																															
<b>EPA and TDEC Approvals</b>							EPA and TDEC Approvals																																															
AO1030	Notification of Completion to EPA, TDEC, TCWN	09-May-20		09-May-20		0%	Notification of Completion to EPA, TDEC, TCWN																																															
<b>SSO and Wet Weather Volume Reduction Projects</b>							SSO and Wet Weather Volume Reduction Projects																																															
<b>DuPont PS and Basin Improvements - Phase 1</b>							DuPont PS and Basin Improvements - Phase 1																																															
<b>Consent Decree Duration (60 Months)</b>							Consent Decree Duration (60 Months)																																															
AN1040	Consent Decree Duration	24-Apr-13 A	24-Apr-13	24-Apr-18		93.71%	Consent Decree Duration																																															
AN1050	Consent Decree Duration Completion Milestone	24-Apr-13 A	24-Apr-13	24-Apr-18*		0%	Consent Decree Duration Completion Milestone																																															
<b>Project Procurement</b>							Project Procurement																																															
AN1090	CD Prequalification Procurement (FY 2012 - 2013) Priority II - Development and Issuance of RFP	12-Dec-12 A	12-Dec-12	18-Apr-13 A	18-Apr-13	100%	CD Prequalification Procurement (FY 2012 - 2013) Priority II - Development and Issuance of RFP																																															
AN1100	Consultant develops and Submit Scope and Cost proposal	16-Feb-13 A	16-Feb-13	01-Mar-13 A	01-Mar-13	100%	Consultant develops and Submit Scope and Cost proposal																																															
AN1110	PMO Reviews/ Negotiates and Approve Proposal / Agreement	02-Mar-13 A	02-Mar-13	15-Mar-13 A	15-Mar-13	100%	PMO Reviews/ Negotiates and Approve Proposal / Agreement																																															
AN1120	PMO Approved Agreement to Council for Approval	16-Mar-13 A	16-Mar-13	22-Mar-13 A	22-Mar-13	100%	PMO Approved Agreement to Council for Approval																																															
AN1130	Consultant Signed Agreement to City for Execution	23-Mar-13 A	23-Mar-13	18-Apr-13 A	18-Apr-13	100%	Consultant Signed Agreement to City for Execution																																															
<b>Planning Phase</b>							Planning Phase																																															
AN1000	Planning Phase	10-Feb-13 A	10-Feb-13	16-Mar-15 A	16-Mar-15	100%	Planning Phase																																															
AN1060	SRF Facility Plan Approval	02-Jan-15 A	02-Jan-15	16-Mar-15 A	16-Mar-15	100%	SRF Facility Plan Approval																																															
<b>Engineering Phase</b>							Engineering Phase																																															
AN1010	Engineering	02-Apr-14 A	02-Apr-14	02-Dec-15 A	02-Dec-15	100%	Engineering Phase																																															
AN1020	SRF Approval of Contract Documents	24-Aug-15 A	24-Aug-15	02-Dec-15 A	02-Dec-15	100%	SRF Approval of Contract Documents																																															
<b>Construction Bidding Phase</b>							Construction Bidding Phase																																															
AN1070	Construction Bidding Phase	03-Dec-15 A	03-Dec-15	14-Apr-16 A	14-Apr-16	100%	Construction Bidding Phase																																															
AN1140	SRF Administration Period	16-Mar-16 A	16-Mar-16	14-Apr-16 A	14-Apr-16	100%	SRF Administration Period																																															
<b>Construction Phase</b>							Construction Phase																																															
AN1080	Construction Phase	15-Apr-16 A	15-Apr-16	31-Jan-18		91.94%	Construction Phase																																															
<b>EPA and TDEC Approvals</b>							EPA and TDEC Approvals																																															
		01-Feb-18		01-Feb-18		0%	EPA and TDEC Approvals																																															



- Summary
- Actual Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
- Baseline Milestone

**CHATTANOOGA CONSENT DECREE PROGRAM - PHASE I**  
CITY OF CHATTANOOGA, TN  
WASTE RESOURCES DIVISION









Activity ID	Activity Name	Start	Actual Start	Finish	Actual Finish	Duration % Complete	2009				2010				2011				2012				2013				2014				2015				2016				2017				2018				2019				2020			
							Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2								
<b>Construction Phase</b>																																																						
AG1080	Construction Phase	19-Mar-16 A	19-Mar-16	31-Mar-18		80.22%																																																
<b>EPA and TDEC Approvals</b>																																																						
AG1030	Notification of Completion to EPA, TDEC, TCWN	01-Apr-18		01-Apr-18		0%																																																
<b>Friars Branch PS Improvements</b>																																																						
<b>Consent Decree Duration (60 Months)</b>																																																						
AF1040	Consent Decree Duration	24-Apr-13 A	24-Apr-13	24-Apr-18*		93.71%																																																
AF1050	Consent Decree Duration Completion Milestone			24-Apr-18*		0%																																																
<b>Project Procurement</b>																																																						
AF1090	CD Prequalification Procurement (FY 2012 - 2013) Priority II - Development and Issuance of RFP	12-Dec-12 A	12-Dec-12	18-Apr-13 A	18-Apr-13	100%																																																
AF1100	Consultant develops and Submit Scope and Cost proposal	16-Feb-13 A	16-Feb-13	01-Mar-13 A	01-Mar-13	100%																																																
AF1110	PMO Reviews/ Negotiates and Approve Proposal / Agreement	02-Mar-13 A	02-Mar-13	15-Mar-13 A	15-Mar-13	100%																																																
AF1120	PMO Approved Agreement to Council for Approval	16-Mar-13 A	16-Mar-13	22-Mar-13 A	22-Mar-13	100%																																																
AF1130	Consultant Signed Agreement to City for Execution	23-Mar-13 A	23-Mar-13	18-Apr-13 A	18-Apr-13	100%																																																
<b>Planning Phase</b>																																																						
AF1000	Planning Phase	15-Apr-13 A	15-Apr-13	24-Mar-14 A	24-Mar-14	100%																																																
AF1060	SRF Facility Plan Approval	24-Oct-13 A	24-Oct-13	24-Mar-14 A	24-Mar-14	100%																																																
<b>Engineering Phase</b>																																																						
AF1010	Engineering	25-Mar-14 A	25-Mar-14	29-Oct-15 A	29-Oct-15	100%																																																
AF1020	SRF Approval of Contract Documents	30-Oct-15 A	30-Oct-15	27-Jan-16 A	27-Jan-16	100%																																																
<b>Construction Bidding Phase</b>																																																						
AF1070	Construction Bidding Phase	28-Jan-16 A	28-Jan-16	08-Dec-16 A	08-Dec-16	100%																																																
AF1140	SRF Administration Phase	02-Nov-16 A	02-Nov-16	08-Dec-16 A	08-Dec-16	100%																																																
<b>Construction Phase</b>																																																						
AF1080	Construction Phase	09-Dec-16 A	09-Dec-16	16-Jul-18		58.66%																																																
<b>EPA and TDEC Approvals</b>																																																						
AF1030	Notification of Completion to EPA, TDEC, TCWN	17-Jul-18		17-Jul-18		0%																																																
<b>Friars Branch Basin Improvements</b>																																																						
<b>Consent Decree Duration (60 Months)</b>																																																						
AE1040	Consent Decree Duration	24-Apr-13 A	24-Apr-13	24-Apr-18		93.71%																																																
AE1050	Consent Decree Duration Completion Milestone			24-Apr-18*		0%																																																
<b>Project Procurement</b>																																																						
AE1090	CD Prequalification Procurement (FY 2012 - 2013) Priority II - Development and Issuance of RFP	12-Dec-12 A	12-Dec-12	18-Apr-13 A	18-Apr-13	100%																																																
AE1100	Consultant develops and Submit Scope and Cost proposal	16-Feb-13 A	16-Feb-13	01-Mar-13 A	01-Mar-13	100%																																																
AE1110	PMO Reviews/ Negotiates and Approve Proposal / Agreement	02-Mar-13 A	02-Mar-13	15-Mar-13 A	15-Mar-13	100%																																																
AE1120	PMO Approved Agreement to Council for Approval	16-Mar-13 A	16-Mar-13	22-Mar-13 A	22-Mar-13	100%																																																
AE1130	Consultant Signed Agreement to City for Execution	23-Mar-13 A	23-Mar-13	18-Apr-13 A	18-Apr-13	100%																																																
<b>Planning Phase</b>																																																						
AE1000	Planning Phase	29-Apr-13 A	29-Apr-13	30-Jul-14 A	30-Jul-14	100%																																																
AE1060	SRF Facility Plan Approval	24-Oct-13 A	24-Oct-13	28-Apr-14 A	28-Apr-14	100%																																																
<b>Engineering Phase</b>																																																						
AE1010	Engineering	12-May-14 A	12-May-14	23-Dec-16 A	23-Dec-16	100%																																																
AE1020	SRF Approval of Contract Documents	24-Dec-16 A	24-Dec-16	24-Mar-17 A	24-Mar-17	100%																																																
<b>Construction Bidding Phase</b>																																																						
AE1070	Construction Bidding Phase	24-Dec-16 A	24-Dec-16	04-May-17 A	04-May-17	100%																																																
AE1140	SRF Administration Period	14-Apr-17 A	14-Apr-17	04-May-17 A	04-May-17	100%																																																
<b>Construction Phase</b>																																																						
AE1080	Construction Phase	28-Apr-17 A	28-Apr-17	03-Mar-18		75.86%																																																
<b>EPA and TDEC Approvals</b>																																																						
AE1030	Notification of Completion to EPA, TDEC, TCWN	04-Mar-18		04-Mar-18		0%																																																
<b>Chattanooga Creek Interceptor Rehab</b>																																																						
<b>Consent Decree Duration (36 Months)</b>																																																						
AB1040	Consent Decree Duration	24-Apr-13 A	24-Apr-13	24-Apr-16 A	24-Apr-16	100%																																																
AB1050	Consent Decree Duration Completion Milestone			24-Apr-16 A	24-Apr-16	100%																																																
<b>Project Procurement</b>																																																						
AB1090	CD Prequalification Procurement (FY 2012 - 2013) Priority II - Development and Issuance of RFP	12-Dec-12 A	12-Dec-12	18-Apr-13 A	18-Apr-13	100%																																																
AB1100	Consultant develops and Submit Scope and Cost proposal	16-Feb-13 A	16-Feb-13	01-Mar-13 A	01-Mar-13	100%																																																
AB1110	PMO Reviews/ Negotiates and Approve Proposal / Agreement	02-Mar-13 A	02-Mar-13	15-Mar-13 A	15-Mar-13	100%																																																
AB1120	PMO Approved Agreement to Council for Approval	16-Mar-13 A	16-Mar-13	22-Mar-13 A	22-Mar-13	100%																																																
AB1130	Consultant Signed Agreement to City for Execution	23-Mar-13 A	23-Mar-13	18-Apr-13 A	18-Apr-13	100%																																																
<b>Planning Phase</b>																																																						
AB1000	Planning Phase	06-May-13 A	06-May-13	02-May-14 A	02-May-14	100%																																																
AB1060	SRF Facility Plan Approval	24-Oct-13 A	24-Oct-13	28-Apr-14 A	28-Apr-14	100%																																																
<b>Engineering Phase</b>																																																						
AB1000	Engineering Phase	05-May-14 A	05-May-14	30-Jan-15 A	30-Jan-15	100%																																																



- Summary
- Actual Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
- Baseline Milestone

**CHATTANOOGA CONSENT DECREE PROGRAM - PHASE I**  
CITY OF CHATTANOOGA, TN  
WASTE RESOURCES DIVISION





Activity ID	Activity Name	Start	Actual Start	Finish	Actual Finish	Duration % Complete	2009				2010				2011				2012				2013				2014				2015				2016				2017				2018				2019				2020			
							Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2								
<b>Construction Phase</b>																																																						
AL1230	Construction Phase	02-Sep-16 A	02-Sep-16	27-Jan-17 A	27-Jan-17	100%																																																
<b>EPA and TDEC Approvals</b>																																																						
AL1290	Notification of Completion to EPA, TDEC, TCWN	28-Jan-17 A	28-Jan-17	28-Jan-17 A	28-Jan-17	100%																																																
<b>MBWWTP Hydraulic and Pump Improvements</b>																																																						
<b>Consent Decree Duration (60 Months)</b>																																																						
AK1040	Consent Decree Duration	24-Apr-13 A	24-Apr-13	24-Apr-18		93.71%																																																
AK1050	Consent Decree Duration Completion Milestone			24-Apr-18*		0%																																																
<b>Project Procurement</b>																																																						
AK1090	CD Prequalification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP	18-Oct-12 A	18-Oct-12	01-Dec-12 A	01-Dec-12	100%																																																
AK1100	Consultant develops and Submit Scope and Cost proposal	02-Dec-12 A	02-Dec-12	11-Dec-12 A	11-Dec-12	100%																																																
AK1110	PMO Reviews/ Negotiates and Approve Proposal / Agreement	12-Dec-12 A	12-Dec-12	21-Dec-12 A	21-Dec-12	100%																																																
AK1120	PMO Approved Agreement to Council for Approval	22-Dec-12 A	22-Dec-12	08-Jan-13 A	08-Jan-13	100%																																																
AK1130	Consultant Signed Agreement to City for Execution	09-Jan-13 A	09-Jan-13	22-Jan-13 A	22-Jan-13	100%																																																
<b>Planning Phase</b>																																																						
AK1000	Planning Phase	02-Feb-13 A	02-Feb-13	13-Feb-14 A	13-Feb-14	100%																																																
AK1060	SRF Facility Plan Approval	24-Oct-13 A	24-Oct-13	13-Feb-14 A	13-Feb-14	100%																																																
<b>Engineering Phase</b>																																																						
AK1010	Engineering	14-Feb-14 A	14-Feb-14	05-Sep-14 A	05-Sep-14	100%																																																
AK1020	SRF Approval of Contract Documents	06-Sep-14 A	06-Sep-14	20-Oct-14 A	20-Oct-14	100%																																																
<b>Construction Bidding Phase</b>																																																						
AK1070	Construction Bidding Phase	23-Oct-14 A	23-Oct-14	12-Dec-14 A	12-Dec-14	100%																																																
AK1140	SRF Administration Phase	05-Dec-14 A	05-Dec-14	12-Dec-14 A	12-Dec-14	100%																																																
<b>Construction Phase</b>																																																						
AK1080	Construction Phase	16-Feb-15 A	16-Feb-15	20-Jul-16 A	20-Jul-16	100%																																																
<b>EPA and TDEC Approvals</b>																																																						
A4660	Notification of Completion to EPA, TDEC, TCWN	21-Jul-16 A	21-Jul-16	31-Jul-16 A	31-Jul-16	100%																																																
<b>MBWWTP Bar and Fine Screen Replacements</b>																																																						
<b>Consent Decree Duration (60 Months)</b>																																																						
AJ1040	Consent Decree Duration	24-Apr-13 A	24-Apr-13	24-Apr-18		93.71%																																																
AJ1050	Consent Decree Duration Completion Milestone			24-Apr-18*		0%																																																
<b>Project Procurement</b>																																																						
AJ1090	Previously Procured Consent Decree Projects	07-Sep-12 A	07-Sep-12	07-Sep-12 A	07-Sep-12	100%																																																
<b>Planning Phase</b>																																																						
AJ1000	Planning Phase	01-Jan-12 A	01-Jan-12	17-Oct-12 A	17-Oct-12	100%																																																
AJ1060	SRF Facility Plan Approval	08-Oct-12 A	08-Oct-12	17-Oct-12 A	17-Oct-12	100%																																																
<b>Engineering Phase</b>																																																						
AJ1010	Engineering	01-May-12 A	01-May-12	05-Sep-14 A	05-Sep-14	100%																																																
AJ1020	SRF Approval of Contract Documents	06-Sep-14 A	06-Sep-14	20-Oct-14 A	20-Oct-14	100%																																																
<b>Construction Bidding Phase</b>																																																						
AJ1070	Construction Bidding Phase	23-Oct-14 A	23-Oct-14	04-Dec-14 A	04-Dec-14	100%																																																
AJ1100	SRF Administration Phase	05-Dec-14 A	05-Dec-14	12-Feb-15 A	12-Feb-15	100%																																																
<b>Construction Phase</b>																																																						
AJ1080	Construction Phase	16-Feb-15 A	16-Feb-15	30-Jun-17 A	30-Jun-17	100%																																																
<b>MBWWTP Effluent Disinfection System Upgrade</b>																																																						
<b>Consent Decree Duration (36 Months)</b>																																																						
AC1340	Consent Decree Duration	24-Apr-13 A	24-Apr-13	24-Apr-16 A	24-Apr-16	100%																																																
AC1350	Consent Decree Duration Completion Milestone			24-Apr-16 A	24-Apr-16	100%																																																
<b>Project Procurement</b>																																																						
AC1390	CD Prequalification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP	18-Oct-12 A	18-Oct-12	01-Dec-12 A	01-Dec-12	100%																																																
AC1400	Consultant develops and Submit Scope and Cost proposal	02-Dec-12 A	02-Dec-12	11-Dec-12 A	11-Dec-12	100%																																																
AC1410	PMO Reviews/ Negotiates and Approve Proposal / Agreement	12-Dec-12 A	12-Dec-12	12-Dec-12 A	12-Dec-12	100%																																																
AC1420	PMO Approved Agreement to Council for Approval	12-Dec-12 A	12-Dec-12	29-Dec-12 A	29-Dec-12	100%																																																
AC1430	Consultant Signed Agreement to City for Execution	30-Dec-12 A	30-Dec-12	12-Jan-13 A	12-Jan-13	100%																																																
<b>Planning Phase</b>																																																						
AC1300	Planning Phase	29-Apr-13 A	29-Apr-13	15-May-13 A	15-May-13	100%																																																
AC1360	SRF Facility Plan Approval	14-May-13 A	14-May-13	28-Aug-13 A	28-Aug-13	100%																																																
<b>Engineering Phase</b>																																																						
AC1310	Engineering	10-Oct-13 A	10-Oct-13	20-Oct-14 A	20-Oct-14	100%																																																
AC1320	SRF Approval of Contract Documents	03-Sep-14 A	03-Sep-14	20-Oct-14 A	20-Oct-14	100%																																																
<b>Construction Bidding Phase</b>																																																						
AC1370	Construction Bidding Phase	30-Oct-14 A	30-Oct-14	04-Jan-15 A	04-Jan-15	100%																																																
AC1440	SRF Administration Period	05-Jan-15 A	05-Jan-15	30-Jan-15 A	30-Jan-15	100%																																																
<b>Construction Phase</b>																																																						
AC1380	Construction Phase	16-Mar-15 A	16-Mar-15	24-Apr-16 A	24-Apr-16	100%																																																



- Summary
- Actual Level of Effort
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- Critical Remaining Work
- Baseline Milestone

**CHATTANOOGA CONSENT DECREE PROGRAM - PHASE I**  
CITY OF CHATTANOOGA, TN  
WASTE RESOURCES DIVISION





Activity ID	Activity Name	Start	Actual Start	Finish	Actual Finish	Duration % Complete	2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020																							
							Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
<b>EPA and TDEC Approvals</b>																														
AC1330	Notification of Completion to EPA, TDEC, TCWN	24-Apr-16 A	24-Apr-16	24-Apr-16 A	24-Apr-16	0%																								
<b>CSO Projects</b>																														
<b>Carter Street CSOTF Outfall Replacement</b>																														
<b>Consent Decree Duration (36 Months)</b>																														
AI1040	Consent Decree Duration	24-Apr-13 A	24-Apr-13	24-Apr-16 A	24-Apr-16	100%																								
AI1050	Consent Decree Duration Completion Milestone			24-Apr-16 A	24-Apr-16	100%																								
<b>Project Procurement</b>																														
AI1090	Previously Procured Consent Decree Projects	07-Sep-12 A	07-Sep-12	17-Aug-13 A	17-Aug-13	100%																								
<b>Planning Phase</b>																														
AI1000	Planning Phase	18-Aug-13 A	18-Aug-13	15-Jun-14 A	15-Jun-14	100%																								
AI1060	SRF Facility Plan Approval	16-Jun-14 A	16-Jun-14	28-Jul-14 A	28-Jul-14	100%																								
<b>Engineering Phase</b>																														
AI1010	Engineering	18-Aug-13 A	18-Aug-13	28-Jul-14 A	28-Jul-14	100%																								
AI1020	SRF Approval of Contract Documents	29-Jul-14 A	29-Jul-14	12-Jan-15 A	12-Jan-15	100%																								
<b>Construction Bidding Phase</b>																														
AI1070	Construction Bidding Phase	19-Feb-15 A	19-Feb-15	06-Aug-15 A	06-Aug-15	100%																								
AI1100	SRF Administration Phase	03-Aug-15 A	03-Aug-15	06-Aug-15 A	06-Aug-15	100%																								
<b>Construction Phase</b>																														
AI1080	Construction Phase	28-Aug-15 A	28-Aug-15	24-Apr-16 A	24-Apr-16	100%																								
<b>EPA and TDEC Approvals</b>																														
AI1030	Notification of Completion to EPA, TDEC, TCWN	24-Apr-16 A	24-Apr-16	24-Apr-16 A	24-Apr-16	100%																								
<b>Automation of Valve Operators at CSO Facilities</b>																														
<b>Consent Decree Duration (36 Months)</b>																														
AH1140	Consent Decree Duration	24-Apr-13 A	24-Apr-13	24-Apr-16 A	24-Apr-16	100%																								
AH1150	Consent Decree Duration Completion Milestone			24-Apr-16 A	24-Apr-16	100%																								
<b>Project Procurement</b>																														
AH1190	Previously Procured Consent Decree Projects (City Internal Project - Completed)	15-Jul-12 A	15-Jul-12	15-Jul-12 A	15-Jul-12	100%																								
<b>Construction Phase</b>																														
AH1180	Construction Phase	15-Jul-12 A	15-Jul-12	07-Sep-12 A	07-Sep-12	100%																								
<b>Project Completion Report</b>																														
OI2420	Project Completion Report	01-Aug-13 A	01-Aug-13	29-Jan-14 A	29-Jan-14	100%																								
<b>EPA and TDEC Approvals</b>																														
AH1130	Notification of Completion to EPA, TDEC, TCWN	30-Jan-14 A	30-Jan-14	30-Jan-14 A	30-Jan-14	100%																								
<b>Operations Projects</b>																														
<b>South Chick PS Reliability Improvements</b>																														
<b>Consent Decree Duration (36 Months)</b>																														
AH1040	Consent Decree Duration	24-Apr-13 A	24-Apr-13	24-Apr-16 A	24-Apr-16	100%																								
AH1050	Consent Decree Duration Completion Milestone			24-Apr-16 A	24-Apr-16	100%																								
<b>Project Procurement</b>																														
AH1090	Previously Procured Consent Decree Projects	07-Sep-12 A	07-Sep-12	11-Nov-12 A	11-Nov-12	100%																								
<b>Planning Phase</b>																														
AH1000	Planning Phase	12-Nov-12 A	12-Nov-12	12-Nov-12 A	12-Nov-12	100%																								
AH1060	SRF Facility Plan Approval	12-Nov-12 A	12-Nov-12	12-Nov-12 A	12-Nov-12	100%																								
<b>Engineering Phase</b>																														
AH1010	Engineering	12-Nov-12 A	12-Nov-12	12-Nov-12 A	12-Nov-12	100%																								
AH1020	SRF Approval of Contract Documents	12-Nov-12 A	12-Nov-12	12-Nov-12 A	12-Nov-12	100%																								
<b>Construction Bidding Phase</b>																														
AH1070	Construction Bidding Phase	12-Nov-12 A	12-Nov-12	12-Nov-12 A	12-Nov-12	100%																								
<b>Construction Phase</b>																														
AH1080	Construction Phase	12-Nov-12 A	12-Nov-12	16-Nov-12 A	16-Nov-12	100%																								
<b>EPA and TDEC Approvals</b>																														
AH1030	Notification of Completion to EPA, TDEC, TCWN	30-Jan-14 A	30-Jan-14	30-Jan-14 A	30-Jan-14	100%																								
<b>MBWWTP Telemetry and SCADA Upgrades</b>																														
<b>Consent Decree Duration (60 Months)</b>																														
AC1190	Consent Decree Duration	24-Apr-13 A	24-Apr-13	24-Apr-18	24-Apr-18	93.71%																								
AC1200	Consent Decree Duration Completion Milestone			24-Apr-18*		0%																								
<b>Project Procurement</b>																														
AC1240	CD Prequalification Procurement (FY 2012 - 2013) Priority I - Development and Issuance of RFP	18-Oct-12 A	18-Oct-12	22-Jan-13 A	22-Jan-13	100%																								
AC1250	Consultant develops and Submit Scope and Cost proposal	02-Dec-12 A	02-Dec-12	11-Dec-12 A	11-Dec-12	100%																								
AC1260	PMO Reviews/ Negotiates and Approve Proposal / Agreement	12-Dec-12 A	12-Dec-12	21-Dec-12 A	21-Dec-12	100%																								
AC1270	PMO Approved Agreement to Council for Approval	22-Dec-12 A	22-Dec-12	08-Jan-13 A	08-Jan-13	100%																								
AC1280	Consultant Signed Agreement to City for Execution	09-Jan-13 A	09-Jan-13	22-Jan-13 A	22-Jan-13	100%																								



- Summary
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- Remaining Work
- Critical Remaining Work
- Baseline Milestone

**CHATTANOOGA CONSENT DECREE PROGRAM - PHASE I**  
CITY OF CHATTANOOGA, TN  
WASTE RESOURCES DIVISION











Activity ID	Activity Name	Start	Actual Start	Finish	Actual Finish	Duration % Complete	2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020						
							Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
<b>Quarterly Report - 2019</b>																																			
CR8800	Quarterly Report Period 23	01-Jan-19		31-Jan-20		0%																													
CR8810	Develop Quarterly Report 23	01-Jan-19		31-Mar-19		0%																													
CR8820	Submit Deliverable to EPA and TDEC	01-Apr-19		29-Apr-19		0%																													
CR8830	Place Copy of EPA and TDEC Submittal in PDR	30-Apr-19		30-Apr-19		0%																													
CR8840	Quarterly Report Period 24	01-Apr-19		30-Jun-19		0%																													
CR8850	Develop Quarterly Report 24	01-Jul-19		30-Jul-19		0%																													
CR8860	Submit Deliverable to EPA and TDEC	31-Jul-19		31-Jul-19		0%																													
CR8870	Place Copy of EPA and TDEC Submittal in PDR	31-Jul-19		31-Jul-19		0%																													
CR8880	Quarterly Report Period 25	01-Jul-19		30-Sep-19		0%																													
CR8890	Develop Quarterly Report 25	01-Oct-19		30-Oct-19		0%																													
CR8900	Submit Deliverable to EPA and TDEC	31-Oct-19		31-Oct-19		0%																													
CR8910	Place Copy of EPA and TDEC Submittal in PDR	31-Oct-19		31-Oct-19		0%																													
CR8920	Quarterly Report Period 26	01-Oct-19		31-Dec-19		0%																													
CR8930	Develop Quarterly Report 26	01-Jan-20		30-Jan-20		0%																													
CR8940	Submit Deliverable to EPA and TDEC	31-Jan-20		31-Jan-20		0%																													
CR8950	Place Copy of EPA and TDEC Submittal in PDR	31-Jan-20		31-Jan-20		0%																													
<b>Quarterly Report - 2020</b>																																			
CR8960	Quarterly Report Period 27	01-Jan-20		31-Mar-20		0%																													
CR8970	Develop Quarterly Report 27	01-Apr-20		29-Apr-20		0%																													
CR8980	Submit Deliverable to EPA and TDEC	30-Apr-20		30-Apr-20		0%																													
CR8990	Place Copy of EPA and TDEC Submittal in PDR	30-Apr-20		30-Apr-20		0%																													
CR9000	Quarterly Report Period 28	01-Apr-20		30-Jun-20		0%																													
CR9010	Develop Quarterly Report 28	01-Jul-20		30-Jul-20		0%																													
CR9020	Submit Deliverable to EPA and TDEC	31-Jul-20		31-Jul-20		0%																													
CR9030	Place Copy of EPA and TDEC Submittal in PDR	31-Jul-20		31-Jul-20		0%																													
<b>Para 39 - Semi Annual Reports</b>																																			
<b>Semi Annual Reports</b>																																			
<b>Semi Annual Report - 2013</b>																																			
CR4000	Semi Annual Report Period 1	24-Apr-13 A	24-Apr-13	10-Feb-14 A	10-Feb-14	100%																													
CR4010	Develop Semi Annual Report	01-Jan-14 A	01-Jan-14	29-Jan-14 A	29-Jan-14	100%																													
CR4020	Submit Deliverable to EPA and TDEC	30-Jan-14 A	30-Jan-14	30-Jan-14 A	30-Jan-14	100%																													
CR4030	Place Copy of EPA and TDEC Submittal in PDR	10-Feb-14 A	10-Feb-14	10-Feb-14 A	10-Feb-14	100%																													
<b>Semi Annual Report - 2014</b>																																			
CR4040	Semi Annual Report Period 2	01-Jan-14 A	01-Jan-14	30-Jun-14 A	30-Jun-14	100%																													
CR4050	Develop Semi Annual Report	01-Jul-14 A	01-Jul-14	28-Jul-14 A	28-Jul-14	100%																													
CR4060	Submit Deliverable to EPA and TDEC	29-Jul-14 A	29-Jul-14	29-Jul-14 A	29-Jul-14	100%																													
CR4070	Place Copy of EPA and TDEC Submittal in PDR	29-Jul-14 A	29-Jul-14	29-Jul-14 A	29-Jul-14	100%																													
CR4080	Semi Annual Report Period 3	01-Jul-14 A	01-Jul-14	31-Dec-14 A	31-Dec-14	100%																													
CR4090	Develop Semi Annual Report	31-Dec-14 A	31-Dec-14	27-Jan-15 A	27-Jan-15	100%																													
CR4100	Submit Deliverable to EPA and TDEC	27-Jan-15 A	27-Jan-15	27-Jan-15 A	27-Jan-15	100%																													
CR4110	Place Copy of EPA and TDEC Submittal in PDR	28-Jan-15 A	28-Jan-15	28-Jan-15 A	28-Jan-15	100%																													
<b>Semi Annual Report - 2015</b>																																			
CR4120	Semi Annual Report 4 Data Collection	01-Jan-15 A	01-Jan-15	30-Jun-15 A	30-Jun-15	100%																													
CR4130	Develop Semi Annual Report 4	01-Jul-15 A	01-Jul-15	30-Jul-15 A	30-Jul-15	100%																													
CR4140	Submit Deliverable to EPA and TDEC	31-Jul-15 A	31-Jul-15	31-Jul-15 A	31-Jul-15	100%																													
CR4150	Place Copy of EPA and TDEC Submittal in PDR	31-Jul-15 A	31-Jul-15	31-Jul-15 A	31-Jul-15	100%																													
CR4160	Semi Annual Report 5 Data Collection	01-Jul-15 A	01-Jul-15	31-Dec-15 A	31-Dec-15	100%																													
CR4170	Develop Semi Annual Report 5	31-Dec-15 A	31-Dec-15	28-Jan-16 A	28-Jan-16	100%																													
CR4180	Submit Deliverable to EPA and TDEC	29-Jan-16 A	29-Jan-16	29-Jan-16 A	29-Jan-16	100%																													
CR4190	Place Copy of EPA and TDEC Submittal in PDR	30-Jan-16 A	30-Jan-16	30-Jan-16 A	30-Jan-16	100%																													
<b>Semi Annual Report - 2016</b>																																			
CR9040	Semi Annual Report 6 Data Collection	01-Jan-16 A	01-Jan-16	30-Jun-16 A	30-Jun-16	100%																													
CR9050	Develop Semi Annual Report 6	01-Jul-16 A	01-Jul-16	30-Jul-16 A	30-Jul-16	100%																													
CR9060	Submit Deliverable to EPA and TDEC	31-Jul-16 A	31-Jul-16	31-Jul-16 A	31-Jul-16	100%																													
CR9070	Place Copy of EPA and TDEC Submittal in PDR	31-Jul-16 A	31-Jul-16	31-Jul-16 A	31-Jul-16	100%																													
CR9080	Semi Annual Report 7 Data Collection	01-Jul-16 A	01-Jul-16	31-Dec-16 A	31-Dec-16	100%																													
CR9090	Develop Semi Annual Report 7	01-Jan-17 A	01-Jan-17	31-Jan-17 A	31-Jan-17	100%																													
CR9100	Submit Deliverable to EPA and TDEC	31-Jan-17 A	31-Jan-17	31-Jan-17 A	31-Jan-17	100%																													
CR9110	Place Copy of EPA and TDEC Submittal in PDR	31-Jan-17 A	31-Jan-17	31-Jan-17 A	31-Jan-17	100%																													
<b>Semi Annual Report - 2017</b>																																			
CR9120	Semi Annual Report 8 Data Collection	01-Jan-17 A	01-Jan-17	30-Jun-17 A	30-Jun-17	100%																													
CR9130	Develop Semi Annual Report 8	01-Jul-17 A	01-Jul-17	31-Jul-17 A	31-Jul-17	100%																													
CR9140	Submit Deliverable to EPA and TDEC	31-Jul-17 A	31-Jul-17	31-Jul-17 A	31-Jul-17	100%																													
CR9150	Place Copy of EPA and TDEC Submittal in PDR	31-Jul-17 A	31-Jul-17	31-Jul-17 A	31-Jul-17	100%																													
CR9160	Semi Annual Report 9 Data Collection	01-Jul-17 A	01-Jul-17	31-Dec-17 A	31-Dec-17	100%																													
CR9170	Develop Semi Annual Report 9	31-Dec-17		28-Jan-18		0%																													
CR9180	Submit Deliverable to EPA and TDEC	29-Jan-18		29-Jan-18		0%																													
CR9190	Place Copy of EPA and TDEC Submittal in PDR	29-Jan-18		29-Jan-18		0%																													
<b>Semi Annual Report - 2018</b>																																			
<b>Semi Annual Report - 2018</b>																																			



Summary  
 Actual Level of Effort  
 Actual Work  
 Remaining Work  
 Critical Remaining Work  
 Baseline Milestone

**CHATTANOOGA CONSENT DECREE PROGRAM - PHASE I**  
 CITY OF CHATTANOOGA, TN  
 WASTE RESOURCES DIVISION





Activity ID	Activity Name	Start	Actual Start	Finish	Actual Finish	Duration % Complete	2009				2010				2011				2012				2013				2014				2015				2016				2017				2018				2019				2020			
							Q3	Q4	Q1	Q2	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4								
<b>Program Management for Consent Decree - Year 7</b>							Program Management for Consent Decree - Year 7 - Fiscal Year 2019																																															
A8960	Year 7 - Fiscal Year 2019	01-Jul-18		30-Jun-19		0%																																																
<b>Program Management for Consent Decree - Year 8</b>							Program Management for Consent Decree - Year 8 - Fiscal Year 2020																																															
A8970	Year 8 - Fiscal Year 2020	01-Jul-19		30-Jun-20		0%																																																
<b>Program Management - Years 1-5</b>							Program Management - Years 1-5																																															
AI5000	Year 1 - Fiscal Year 2013	01-Jul-12 A	01-Jul-12	30-Jun-13 A	30-Jun-13	100%																																																
AI5100	Year 2 - Fiscal Year 2014	01-Jul-13 A	01-Jul-13	30-Jun-14 A	30-Jun-14	100%																																																
AI5200	Year 3 - Fiscal Year 2015	01-Jul-14 A	01-Jul-14	30-Jun-15 A	30-Jun-15	100%																																																
AI5300	Year 4 - Fiscal Year 2016	01-Jul-15 A	01-Jul-15	30-Jun-16 A	30-Jun-16	100%																																																
AI5400	Year 5 - Fiscal Year 2017	01-Jul-16 A	01-Jul-16	30-Jun-17 A	30-Jun-17	100%																																																
<b>Additional Consent Decree Supported Projects</b>							Additional Consent Decree Supported Projects																																															
<b>MBWWTP Backup Electrical Power</b>							MBWWTP Backup Electrical Power																																															
A4780	Engineering Phase	10-Jan-12 A	10-Jan-12	26-Jan-14 A	26-Jan-14	100%																																																
A4790	Construction Bidding Phase	27-Jan-11 A	27-Jan-11	02-Feb-15 A	02-Feb-15	100%																																																
A4800	Construction Phase	03-Feb-13 A	03-Feb-13	11-Mar-16 A	11-Mar-16	100%																																																
<b>South Chick Creek 4 Rehabilitation</b>							South Chick Creek 4 Rehabilitation																																															
<b>South Chickamauga Creek 4 Rehabilitation</b>							South Chickamauga Creek 4 Rehabilitation																																															
A8170	Project Procurement Phase	01-Dec-17 A	01-Dec-17	01-Apr-18		23.97%																																																
A8180	Planning Phase	02-Apr-18		30-Jul-18		0%																																																
A8190	Engineering Phase	31-Jul-18		25-Feb-19		0%																																																
A8200	Construction Bidding Phase	26-Feb-19		26-May-19		0%																																																
A8210	Construction Phase	27-May-19		06-Dec-20		0%																																																
<b>Friars Branch Interceptor Improvements - Phase 1</b>							Friars Branch Interceptor Improvements - Phase 1																																															
A8470	Project Procurement Phase	31-Dec-17		01-Apr-18		0%																																																
A8480	Planning Phase	02-Apr-18		31-May-18		0%																																																
A8490	Engineering Phase	01-Jun-18		28-Sep-18		0%																																																
A8500	Construction Bidding Phase	29-Sep-18		27-Dec-18		0%																																																
A8510	Construction Phase	28-Dec-18		27-Dec-19		0%																																																
<b>Tennessee River 13 Rehabilitation</b>							Tennessee River 13 Rehabilitation																																															
A8220	Project Procurement Phase	31-Dec-17		01-Apr-18		0%																																																
A8230	Planning Phase	02-Apr-18		30-Jul-18		0%																																																
A8240	Engineering Phase	31-Jul-18		27-Mar-19		0%																																																
A8250	Construction Bidding Phase	28-Mar-19		25-Jun-19		0%																																																
	Construction Phase	26-Jun-19		06-Dec-20		0%																																																



- Summary
- Actual Level of Effort
- Actual Work
- Remaining Work
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- Baseline Milestone

**CHATTANOOGA CONSENT DECREE PROGRAM - PHASE I**  
 CITY OF CHATTANOOGA, TN  
 WASTE RESOURCES DIVISION









Activity ID	Activity Name	Start	Actual Start	Finish	Actual Finish	Duration % Complete	2009				2010				2011				2012				2013				2014				2015				2016				2017				2018				2019				2020			
							Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
<b>Engineering Phase</b>						100%																																																
A3100	Engineering Phase	05-Feb-16 A	05-Feb-16	12-Dec-16 A	12-Dec-16	100%																																																
A3120	TDEC Approval of Contract Documents	28-Oct-16 A	28-Oct-16	12-Dec-16 A	12-Dec-16	100%																																																
<b>Construction Bidding Phase</b>						100%																																																
A3200	Construction Bidding Phase	13-Dec-16 A	13-Dec-16	25-Mar-17 A	25-Mar-17	100%																																																
<b>Construction Phase</b>						53.18%																																																
A3300	Construction Phase	26-Mar-17 A	26-Mar-17	17-Jul-18		53.18%																																																
<b>Friar's Branch -South Chick Creek 5 Interceptor Rehab</b>						65.36%																																																
<b>Friar's Branch-South Chick Creek 5 Interceptor Rehab</b>						65.36%																																																
<b>Planning Phase</b>						100%																																																
A4000	Planning Phase	16-Sep-15 A	16-Sep-15	15-Feb-16 A	15-Feb-16	100%																																																
A4020	SRF Facility Plan Approval	16-Feb-16 A	16-Feb-16	24-Mar-16 A	24-Mar-16	100%																																																
<b>Engineering Phase</b>						100%																																																
A4100	Engineering Phase	25-Mar-16 A	25-Mar-16	23-Sep-17 A	23-Sep-17	100%																																																
A4120	SRF Approval of Contract Documents	24-Sep-17 A	24-Sep-17	17-Nov-17 A	17-Nov-17	100%																																																
<b>Construction Bidding Phase</b>						12.38%																																																
A4200	Construction Bidding Phase	18-Nov-17 A	18-Nov-17	02-Mar-18		40.95%																																																
A4220	SRF Administration Phase	03-Mar-18		01-Apr-18		0%																																																
<b>Construction Phase</b>						0%																																																
A4300	Construction Phase	02-Apr-18		27-Mar-19		0%																																																
<b>South Chick PS Phase II/Spring Creek PS Upgrades</b>						94.55%																																																
<b>South Chick PS Phase II and Spring Creek PS Upgrades</b>						94.55%																																																
<b>Project Procurement</b>						100%																																																
A2000	CD Prequalification Procurement (FY 2014 - 2015) - Development and Issuance of RFP	21-Aug-14 A	21-Aug-14	19-Sep-14 A	19-Sep-14	100%																																																
A2020	Consultant develops and Submit Scope and Cost proposal	20-Sep-14 A	20-Sep-14	13-Oct-14 A	13-Oct-14	100%																																																
A2030	PMO Reviews/ Negotiates and Approve Proposal / Agreement	14-Oct-14 A	14-Oct-14	26-Mar-15 A	26-Mar-15	100%																																																
A2040	PMO Approved Agreement to Council for Approval	27-Mar-15 A	27-Mar-15	31-Mar-15 A	31-Mar-15	100%																																																
A2050	Consultant Signed Agreement to City for Execution	01-Apr-15 A	01-Apr-15	05-May-15 A	05-May-15	100%																																																
<b>Planning Phase</b>						100%																																																
A2200	Planning Phase	06-May-15 A	06-May-15	12-Feb-16 A	12-Feb-16	100%																																																
<b>Engineering Phase</b>						100%																																																
A2300	Engineering Phase	24-Feb-16 A	24-Feb-16	20-Jun-16 A	20-Jun-16	100%																																																
A2400	SRF Approval of Contract Documents	21-Jun-16 A	21-Jun-16	03-Aug-16 A	03-Aug-16	100%																																																
<b>Construction Bidding Phase</b>						100%																																																
A2500	Construction Bidding Phase	04-Aug-16 A	04-Aug-16	24-Oct-16 A	24-Oct-16	100%																																																
A2600	SRF Administration Phase	28-Sep-16 A	28-Sep-16	24-Oct-16 A	24-Oct-16	100%																																																
<b>Construction Phase</b>						100%																																																
A2700	Construction Phase	27-Oct-16 A	27-Oct-16	10-Apr-17 A	10-Apr-17	100%																																																
<b>Additional Evaluation</b>						0%																																																
A8980	S. Chick PS Evaluation	13-Feb-16 A	13-Feb-16	28-Feb-18		0%																																																
A8990	Spring Creek PS Evaluation	13-Feb-16 A	13-Feb-16	28-Feb-18		0%																																																
<b>Carter Street Sewer Rehab</b>						100%																																																
<b>Carter Street Sewer Rehabilitation</b>						100%																																																
<b>Project Procurement</b>						0%																																																
A11130	Previously Procured Consent Decree Projects	07-Sep-12 A	07-Sep-12	07-Sep-12 A	07-Sep-12	100%																																																
<b>Planning Phase</b>						100%																																																
A11140	Planning Phase	13-Jan-16 A	13-Jan-16	15-Jan-16 A	15-Jan-16	100%																																																
A11150	SRF Facility Plan Approval	16-Jan-16 A	16-Jan-16	19-Jan-16 A	19-Jan-16	100%																																																
<b>Engineering Phase</b>						100%																																																
A11160	Engineering	13-Jan-16 A	13-Jan-16	18-Feb-16 A	18-Feb-16	100%																																																
A11170	SRF Approval of Contract Documents	19-Feb-16 A	19-Feb-16	01-Apr-16 A	01-Apr-16	100%																																																
<b>Construction Bidding Phase</b>						100%																																																
A11180	Construction Bidding Phase	04-Apr-16 A	04-Apr-16	21-Jun-16 A	21-Jun-16	100%																																																
A11190	SRF Administration Phase	17-Jun-16 A	17-Jun-16	17-Jun-16 A	17-Jun-16	100%																																																
<b>Construction Phase</b>						100%																																																
A11200	Construction Phase	24-Aug-16 A	24-Aug-16	28-Dec-16 A	28-Dec-16	100%																																																
<b>MBWWTP Control Room Upgrade</b>						80.81%																																																
<b>MBWWTP Control Room Upgrades</b>						80.81%																																																
<b>Project Execution</b>						96.82%																																																
A4390	Project Execution	30-Nov-15 A	30-Nov-15	04-Jan-18		96.82%																																																
<b>Planning Phase</b>						100%																																																
A4400	Planning	01-Dec-15 A	01-Dec-15	23-Nov-16 A	23-Nov-16	100%																																																
<b>Engineering Phase</b>						100%																																																
		05-Oct-16 A	05-Oct-16	15-May-17 A	15-May-17	100%																																																



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