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# Semi-Annual Report #16

July 1, 2019, to December 31, 2019

Civil Action No. 1:10cv4039 - WSD

**DeKalb County  
Department of Watershed Management**



DeKalb County  
G E O R G I A



January 30, 2020

## Table of Contents

<b>Introduction</b> .....	<b>1</b>
<b>Capacity, Management, Operations, and Maintenance Programs Update</b> .....	<b>2</b>
1. Contingency and Emergency Response Plan (CERP) (CD VI.B.i) .....	2
2. Fats, Oils, and Grease (FOG) Management Program (CD VI.B.ii) .....	3
3. Sewer Mapping Program (CD VI.B.iii).....	5
4. Collection and Transmission Systems Training Program (CD VI.B.v) .....	6
5. System-Wide Flow and Rainfall Monitoring Program (CD VI.B.vi).....	6
6. Infrastructure Acquisitions Program (CD VI.B.ix).....	8
7. System-Wide Hydraulic Model .....	8
8. Priority Areas Sewer Assessment and Rehabilitation Program (PASARP) (CD VI.B.x).....	9
9. Ongoing Sewer Assessment and Rehabilitation Program (OSARP) (CD X 38.) .....	10
10. Maintenance Management System (MMS) Program (CD VI.B.iv) .....	10
<b>Gantt Chart</b> .....	<b>12</b>
<b>Table(s)</b>	
Table 1. Consent Decree Submittals – Schedule and Status.....	1

## Acronyms

CD	Consent Decree
CERP	Contingency and Emergency Response Plan
CIPPM	Capital Improvement Projects Program Manager
CMOM	Capacity, Management, Operations, and Maintenance
DWM	Department of Watershed Management (DeKalb County)
EPA	United States Environmental Protection Agency
EPD	Georgia Environmental Protection Division
FOG	fats, oils, and grease
FSE	food service establishment
ft <sup>2</sup>	square foot (feet)
GIS	geographic information system
I/I	infiltration and inflow
lf	linear feet
LS	lift station
MMS	Maintenance Management System
OSARP	Ongoing Sewer Assessment and Rehabilitation Program
PASARP	Priority Areas Sewer Assessment and Rehabilitation Program
RDII	rainfall-derived infiltration inflow
SL-RAT	Sewer Line Rapid Assessment Tool
SRAC	Sewer Rehabilitation Annual Contract
SSO	sanitary sewer overflow
TISCIT	Totally Integrated Sonar and Camera Inspection Technique

## Introduction

DeKalb County (the “County”) submits this 16<sup>th</sup> Semi-Annual Report in accordance with Section IX, Paragraph 57 of the Consent Decree (CD) (Civil Action 1:10cv4039-WSD) to provide:

- a) “A summary description of projects and significant activities completed, and deadlines achieved during the previous applicable six (6) month period pursuant to the requirements of this Consent Decree, in Gantt chart or similar format, including a summary of any missed deadline required by this Consent Decree and, if applicable, the reasons for missing such deadline.”
- b) “A summary of projects and significant activities anticipated to be performed, and deadlines anticipated to be achieved, in the successive applicable six (6) month period to comply with the requirements of this Consent Decree, in Gantt chart or similar format. The Parties agree that schedules, dates or deadlines reported pursuant to this subparagraph 57. (b) are not intended to be and shall not become enforceable under this Consent Decree, unless any such schedule, date or deadline is otherwise specifically enforceable pursuant to this Consent Decree.”

A number of projects and activities have taken place during the second 6 months of 2019, and several projects and activities are projected to be implemented in the first 6 months of 2020. As the implementation of the Capacity, Management, Operations, and Maintenance (CMOM) programs continues with the addition of multiple projects and activities, the reporting of those projects and significant activities is more conducive to a Gantt chart format as described in the CD provision outlined above.

Table 1 summarizes completed and projected submittals during the reporting period.

**Table 1. Consent Decree Submittals – Schedule and Status**

<b>Consent Decree #</b>	<b>Title</b>	<b>DWM Submittal for Review</b>
<b>IX. (56)</b>	<b>Quarterly Report</b>	<b>July 30, 2019</b>
<b>IX. (57)</b>	<b>15<sup>th</sup> Semi-Annual Report</b>	<b>July 30, 2019</b>
<b>IX. (56)</b>	<b>Quarterly Report</b>	<b>October 30, 2019</b>
<b>IX. (56)</b>	<b>Quarterly Report</b>	<b>January 30, 2020</b>
<b>IX. (57)</b>	<b>16<sup>th</sup> Semi Annual Report</b>	<b>January 30, 2020</b>
<b>IX. (57)</b>	<b>8<sup>th</sup> Annual Report (2019)</b>	<b>February 28, 2020</b>
<b>IX. (56)</b>	<b>Quarterly Report</b>	<b>April 30, 2020</b>

## Capacity, Management, Operations, and Maintenance Programs Update

### 1. Contingency and Emergency Response Plan (CERP) (CD VI.B.i)

#### a) Projects and Activities Accomplished for the Reporting Period 7/1/2019 to 12/31/2019

- i.) Provided multiple instances of training to ensure County personnel and applicable contractors are prepared to respond to sanitary sewer overflow (SSO) emergencies (see Gantt Chart lines 678–682).
  - a. Conducted CERP refresher training for 246 personnel in divisions of Department of Watershed Management (DWM). New DWM employees are trained in CERP during New Employee Orientation.
  - b. Provided training to a total of 549 additional County staff regarding SSO identification and reporting via the County-wide New Employee Orientation administered by Human Resources. (Having personnel trained in SSO identification in more departments facilitates better communication from other departments and DWM and improves response when other departments have information regarding an SSO.)
  - c. Conducted CERP training for 62 contractor personnel involved with CD-related projects. Contractors are trained as to their responsibilities related to the CERP and how to prevent SSOs during their activities.
- ii.) Promoted greater communication within the wider community about SSO prevention and response (see Gantt Chart lines 683–685).
  - a. Amplified community awareness and education efforts related to fats, oils, and grease (FOG), the leading cause of SSO in the County. More than 3,382 FOG educational flyers were distributed to residents in areas of spills and at community events, informing community members about the effects of FOG on the collection system (additional information about this outreach is in the FOG program section).
- iii.) Implemented immediate maintenance and long-term project planning solutions to ensure the resolution and prevention of SSOs (see Gantt Chart lines 686–691).
  - a. Continued to monitor and coordinate areas for follow-up cleaning or rehabilitation measures. Upon completion of initial response cleaning (approximately 117,000 linear feet [lf]), areas were further cleaned or rehabilitated as needed.
  - b. Addressed long-term solutions to maintenance-related SSOs by using formal root control and cleaning asset management programs. After a root-related SSO, created work orders for chemical root control and/or easement clearing. Coordinated with other DWM divisions to have contractors perform work and complete documentation. Additional information is included in Maintenance Management Program section.

Exception Reporting: Georgia Environmental Protection Division (EPD) was notified via letter dated October 11, 2016, of an inability to meet the public notice with a 7-day timeframe in the legal organ. (The *Champion Newspaper*, which publishes once per week, requires up to a 10-day pre-notice timeframe). Notwithstanding the inability to meet the 7-day timeframe, the County meets the earliest possible date the *Champion Newspaper* would allow after the occurrence of a major spill. Moreover, the County notifies the public expeditiously when the public is potentially affected by an SSO. For example, the County sends information regarding all reported spills in an email to the media (radio stations, television stations, and

newspapers), in addition to regulatory entities and downstream users as soon as possible, but within 24 hours of learning of the spill. Signs that notify the public that a spill has occurred are posted at the site of a spill as well as upstream/downstream of the site.

#### **b) Projects and Activities Anticipated for the Reporting Period 1/1/2020 to 6/30/2020**

- i.) Provide multiple instances of training (see Gantt Chart lines 678–682).
  - a. Continue to provide CERP refresher training to personnel within DWM. These classes take place in the first and second quarter of the year. All personnel are required to attend training yearly. Anticipate training of approximately 400 personnel.
  - b. Continue to provide SSO identification and reporting training to new employees County-wide. These classes occur monthly.
  - c. Continue CERP training for contractor personnel involved with CD-related projects. This training is held as new contracts or contract personnel are added.
- ii.) Ensure effective Community Communications (see Gantt Chart lines 683–685).
  - a. Continue community awareness and education efforts related to FOG. DWM will continue to work with a team focused on distributing fliers and attending community events.
- iii.) Provide solutions to resolve SSOs and potential SSOs before they occur (see Gantt Chart lines 686–691).
  - a. Continue to monitor and coordinate areas for follow-up cleaning or rehabilitation measures after an SSO. Areas that have experienced an SSO to be prioritized above routine cleaning.
  - b. Continue to address long-term solutions to maintenance-related SSOs with ongoing implementation of root control and cleaning asset management programs. Ensure ongoing scheduling of areas for chemical root control or easement clearing. Additional information is included in Maintenance Management Program section.

## **2. Fats, Oils, and Grease (FOG) Management Program (CD VI.B.ii)**

#### **a) Projects and Activities Accomplished for the Reporting Period 7/1/2019 to 12/31/2019**

- i.) To prevent FOG from entering the collection system, the following education efforts were executed (see Gantt Chart lines 693–695).
  - a. Sponsored 124 public outreach events reaching approximately 3,000 citizens with information about FOG and its effect on sewer systems.
  - b. DWM has partnered with the DeKalb County School District to reduce sewer spills. DWM worked with the school district to develop the “No FOG, No Clog” public education campaign for more than 102,000 elementary, middle, and high school students. The “No FOG, No Clog” campaign educates students about the hazards of grease clogs in the sewer systems and aims to positively change FOG disposal behaviors. DWM designed and created presentations, brochures, and promotional materials that illustrate proper disposal. The campaign also includes tips on social media. The campaign was launched in areas where sewer spills most often occur and will continue during the 2019–2020 school year.

For the July 1 through December 31, 2019, reporting period, DWM conducted 49 school events with 122 presentations reaching approximately 5,000 students with information about FOG and its effect on sewer systems.

- ii.) Program Compliance and Enforcement (see Gantt Chart lines 698–702)
  - a. Total inspections: 3,808. Inspections are performed to ensure that Food Service Establishments (FSE) have proper FOG interceptors, are properly maintaining the equipment, and have paid all required fees.
  - b. Warning citations issued: 664. Facilities are given a warning citation to comply with poor interceptor maintenance. The majority of FSEs become compliant within the required 48-hour period. For those who do not, the County may proceed with a court summons.
  - c. Permits issued: 1,194. All FSE proposing to discharge or currently discharging wastewater that contain FOG must obtain a FOG wastewater discharge permit annually or cease ongoing operation.
  - d. Court summons issued: 133
    - i. 97 cases were resolved with the FSE paying a fine and coming into compliance with the ordinance.
    - ii. 14 cases are not resolved. The court date is still pending, or the defendant did not show, and the date was reset.
- iii.) Program statistics (see Gantt Chart lines 703–706)
  - a. More than 4.2 million gallons of FOG removed by haulers from FSEs.
  - b. Although not a part of the Consent Decree, eight multifamily complexes have been placed under enforcement for violations related to the FOG ordinance.
  - c. Performed quarterly FOG and Multifamily Housing workshops.
  - d. Implemented three FOG education commercials: holiday-related cooking, restaurants, and flushable wipes.
  - e. Created door hangar education material and brochures for multifamily housing.
  - f. DWM FOG Program was awarded the Southeastern FOG Alliance Award for outstanding program management, inspection, documentation, enforcement, and education.

**b) Projects and Activities Anticipated for the Reporting Period 1/1/2020 to 6/30/2020**

- i.) Community Education (see Gantt Chart lines 693–695)
  - a. Expand communication with County residents and customers as part of the Public Education Program through contacts with community groups and organizations aiding new residents to DeKalb County.
  - b. Continue FOG education programs in DeKalb County schools reaching approximately 8,000 students.

- ii.) Compliance and Enforcement (see Gantt Chart lines 698–702)
  - a. Continue aggressive enforcement program aimed at achieving an even higher compliance with the FOG ordinance.
  - b. Continue enforcement of Industrial Pretreatment customers to install pretreatment systems if necessary.

### **3. Sewer Mapping Program (CD VI.B.iii)**

#### **a) Projects and Activities Accomplished for the Reporting Period 7/1/2019 to 12/31/2019**

- i.) Data Input and Quality Control (see Gantt Chart lines 710–712)
  - a. Continued to populate a geographic information system (GIS) layer for sanitary sewer easements in the County. DWM is capturing easements from record drawings and subdivision plats to augment records. Maps of easements are used to provide locations of access for maintenance of assets. A total of 1,612 easements were identified from drawings and subdivision plats, scanned into the GIS software, and then added into the GIS layer.
  - b. Continued updates to the Sewer Mapping GIS to reflect new developments, connectivity issues, system improvements, and maintenance revisions. As assets are added to the GIS, they are also added to the Maintenance Management System Program for maintenance and evaluation.
- ii.) System Enhancements (see Gantt Chart lines 718–719)
  - a. Consolidated DWM GIS online accounts with County-wide accounts to obtain access to more data, resources, and applications.
  - b. Transferred internally maintained web maps and applications to online maps and applications to provide wider access across user groups. This will allow for more users to access DWM data.
  - c. Uploaded GIS database to new, more robust and versatile server. In addition to size and speed upgrade, the server operating system is able to interface with more applications used by DWM.

#### **b) Projects and Activities Anticipated for the Reporting Period 1/1/2020 to 6/30/2020**

- i.) Data Input and Quality Control (see Gantt Chart lines 710–712)
  - a. Identify which assets are in areas without sufficient or properly recorded easement documents. A total of 400 as-built drawings and subdivision plats are anticipated to be added to the GIS system.
- ii.) System Enhancements
  - a. Continue uploading data to new GIS server and perform quality control of data.
  - b. Perform performance analysis of system data and applications displaying various attributes and graphical maps.

#### **4. Collection and Transmission Systems Training Program (CD VI.B.v)**

##### **a) Projects and Activities Accomplished for the Reporting Period 7/1/2019 to 12/31/2019**

- i.) Continue to implement the revised Training Program (2018) using the Training Matrix, Training Calendar, and Compliance Suite software. A total of 7,310 hours of training was performed during this period (see Gantt Chart lines 720–726).
- ii.) The DWM Safety Division held classes monthly for safety and security topics.
- iii.) Classes for personal development, computer applications, management training, and new employee orientation were administered by the County Human Resources Department monthly.
- iv.) Training was scheduled and tracked by division using the Compliance Suite software.
- v.) Monthly and quarterly reports notifying supervisors of their cost center’s required participation were produced and distributed. Reports described which employees had attended class and which still needed to register for upcoming classes.
- vi.) Schedules of classes were recorded and updated using the Compliance Suite software and were made available to all personnel.
- vii.) Examples of classes provided and number of participants:
  - a. Accountability: 19
  - b. Blood-borne Pathogen: 398
  - c. Confined Space Awareness: 25
  - d. Department Safety Management Systems: 396
  - e. Emergency Action/Response Plan: 394
  - f. Employee Rights and Responsibilities: 394
  - g. Ergonomics: 393
  - h. Fire Prevention Plans: 397
  - i. Hazard Communication: 391
  - j. Medical Services and First Aid: 390
  - k. Personal Protective Equipment: 397
  - l. Safety Management Division Overview: 384
  - m. Slip, Trips & Falls: 391
  - n. Workplace Violence: 396

##### **b) Projects and Activities Anticipated for the Reporting Period 1/1/2020 to 6/30/2020**

- i.) Continue implementation of updated Training Program using Training Matrix, Training Calendar, and Compliance Suite software to track compliance (see Gantt Chart lines 720-726).
- ii.) Continue producing and distributing reports of participation by cost center.

#### **5. System-Wide Flow and Rainfall Monitoring Program (CD VI.B.vi)**

##### **a) Projects and Activities Accomplished for the Reporting Period 7/1/2019 to 12/31/2019**

- i.) Prepared draft flow monitoring program installation TM for North Fork Peachtree Creek, South Fork Peachtree Creek, Snapfinger, Pole Bridge, and Miscellaneous areas (see Gantt Chart lines 915, 920, 925, 930, and 935).

- ii.) DWM reviewed draft flow monitoring program installation TM for Intrenchment Creek, Nancy Creek, North Fork Peachtree Creek, South Fork Peachtree Creek, Snapfinger, Pole Bridge, and Miscellaneous areas (see Gantt Chart lines 906, 911, 916, 921, 926, 931, and 936).
- iii.) Revised flow monitoring program installation TM for Intrenchment Creek, Nancy Creek, North Fork Peachtree Creek, South Fork Peachtree Creek, Snapfinger, Pole Bridge, and Miscellaneous areas (see Gantt Chart lines 907, 912, 917, 922, 927, 932, and 937).
- iv.) Issued final flow monitoring program TM for Intrenchment Creek, Nancy Creek, North Fork Peachtree Creek, South Fork Peachtree Creek, and Miscellaneous areas (see Gantt Chart lines 908, 913, 918, 923, and 938).
- v.) Placed temporary monitors throughout the system, as needed, to assist in determining available sewer capacity for specific projects (see Gantt Chart line 950).
- vi.) Collected data to support multiple CMOM programs. For example, flow data were used to determine spill volumes, as warranted, as part of the CERP (see Gantt Chart line 951).
- vii.) Used flow data to monitor depth of flow in the system. If depth measured showed significant increase or decrease during dry weather in comparison to historical data, an alert was sent to the Operations Division to dispatch personnel to investigate. One example involved a lift station that had uncharacteristically high depth measured upstream of the station by the flow monitor. A crew was able to address a blockage at the station before an overflow occurred (see Gantt Chart line 951).
- viii.) Maintained manhole-mounted infiltration and inflow (I/I) monitoring system. Flow analysis from the current flow monitoring network has identified drainage areas that have greater than average I/I contributions into the system. These I/I monitors selected will be used to further isolate potential locations of I/I (see Gantt Chart line 941).
- ix.) Installed County-supplied 75 flow meters and 210 modems with SIM cards (see Gantt Chart line 946).
- x.) Continued installation of cellular modems in flow monitors identified as permanent sites to reduce amount of data retrieval visits required to maintain data integrity. Installed modems in 134 flow monitors within the second 6 months of 2019 (see Gantt Chart line 946).

**b) Projects and Activities Anticipated for the Reporting Period 1/1/2020 to 6/30/2020**

- i.) Continue the use of flow monitors to collect data to support multiple CMOM programs (see Gantt Chart line 951).
- ii.) Revise and issue final Flow Monitoring Program Installation TM for Snapfinger and Pole Bridge (see Gantt Chart lines 927–928 and 932–933).
- iii.) Install monitors from the new manhole-mounted I/I monitoring system in areas identified as having I/I based on rainfall-derived infiltration inflow (RDII) determined from the permanent flow monitoring system and prioritized on severity of RDII and proximity to reported wet weather SSOs. The system includes sensors to measure depth of flow and software to analyze volumetric changes and pinpoint possible locations of I/I (see Gantt Chart line 941).
- iv.) Continue installing cellular modems in flow monitors identified as permanent sites to reduce amount of data retrieval visits required to maintain data integrity (see Gantt Chart line 946).

## **6. Infrastructure Acquisitions Program (CD VI.B.ix)**

### **a) Projects and Activities Accomplished for the Reporting Period 7/1/2019 to 12/31/2019**

- i.) Evaluated/inspected 29,432 feet of pipe (see Gantt Chart line 953).
- ii.) No new lift stations acquired this period (see Gantt Chart line 954).
- iii.) Wastewater plan review (buildings): 522 (see Gantt Chart line 955)
- iv.) Wastewater plan review (land disturbance): 100 (see Gantt Chart line 956).
- v.) Final plat reviews: 29 (see Gantt Chart line 957).
- vi.) FOG building reviews: 501 (see Gantt Chart line 958).
- vii.) Sewer capacity requests received: 208 (see Gantt Chart line 959).
- viii.) Capacity letters issued: 331 (see Gantt Chart line 960).

Exception Reporting: The wastewater flows from approved capacity requests are being tracked and incorporated into the fully developed model(s), and allotment letters are provided at a developer's request. Allotment letters indicating that the applicant's wastewater flows were being allotted for a limited period were not provided to all applicants.

### **b) Projects and Activities Anticipated for the Reporting Period 1/1/2020 to 6/30/2020**

- i.) Integrate capacity allotment process with cities' permitting procedures (see Gantt Chart line 971).

## **7. System-Wide Hydraulic Model**

### **a) Projects and Activities Accomplished for the Reporting Period 7/1/2019 to 12/31/2019**

- i.) Completed model calibration and sensitivity analysis for North Fork Peachtree Creek, South Fork Peachtree Creek, Snapfinger, Pole Bridge, and Miscellaneous model areas (see Gantt Chart lines 1107, 1157–1158, 1203–1209, 1250–1260, and 1302–1312.).
- ii.) Completed model capacity assessment for North Fork Peachtree Creek, South Fork Peachtree Creek, Snapfinger, Pole Bridge, and Miscellaneous model areas (see Gantt Chart lines 1108–1113, 1159–1164, 1210–1215, 1261–1266, and 1313–1318).
- iii.) Submitted draft hydraulic modeling reports for DWM and peer review for North Fork Peachtree Creek, South Fork Peachtree Creek, Snapfinger, Pole Bridge, and Miscellaneous model areas (see Gantt Chart lines 1116, 1167, 1218, 1270, and 1322).
- iv.) Completed DWM and peer review processes for Intrenchment Creek, Nancy Creek, North Fork Peachtree Creek, South Fork Peachtree Creek, and Miscellaneous model areas (see Gantt Chart lines 1017–1022, 1066–1071, 1116–1119, 1167–1172, and 1322–1328).
- v.) Provided Nancy Creek and Intrenchment Creek models and report to EPA/EPD.
- vi.) Completed training to County staff on model for Intrenchment Creek and Nancy Creek model areas (see Gantt Chart lines 1024 and 1073).

### **b) Projects and Activities Anticipated for the Reporting Period 1/1/2020 to 6/30/2020**

- i.) Complete DWM and peer review process for Snapfinger and Pole Bridge (see Gantt chart lines 1218–1224 and 1270–1276).
- ii.) Complete training to County staff on model for North Fork Peachtree Creek, South Fork Peachtree Creek, Snapfinger, Pole Bridge, and Miscellaneous model areas (see Gantt Chart lines 1124, 1175, 1226, 1278, and 1330).

## **8. Priority Areas Sewer Assessment and Rehabilitation Program (PASARP) (CD VI.B.x)**

### **a) Projects and Activities Accomplished for the Reporting Period 7/1/2019 to 12/31/2019**

- i.) Continued follow-up maintenance activities including cleaning and closed-circuit television inspections to address maintenance recommendations developed from initial tiered assessments in PASARP areas.
- ii.) For Design Build Package No. 1, construction completed for early work components. The remaining work is either under final design or under construction. This design build package is to address structural defects identified from assessment activities and improve conveyance capacity (see Gantt Chart lines 1579–1610).
- iii.) For Design Build Package No. 2, construction completed for early work components. The remaining work is either under final design or under construction. This design build package is to address structural defects identified from assessment activities and improve conveyance capacity (see Gantt Chart lines 1611–1638).
- iv.) For Design Build Package No. 3, construction has started for early work components. The remaining work is under final design or under construction. This design build package is to address structural defects identified from assessment activities and improve conveyance capacity (see Gantt Chart lines 1639–1656).
- v.) Started construction to address repeated SSOs for Melanie Court and Hood Circle (see Gantt Chart lines 1573 and 1852).
- vi.) County decided not to award Design Build Package No. 4 contract because scope can be completed under an existing contract.
- vii.) Design of Rehabilitation Package No. 5 (Bundle 3), 6, 7 and 8 (Annual AE Contract 1, 2, 3, and 4) is ongoing. These rehabilitation packages include capacity improvement projects. Projects within these packages will address I/I mitigation upstream of Thrasher Circle, Cobb Branch, Miriam Lane, Meadow Creek Path and Country Squire (see Gantt Chart lines 1682–1712).
- viii.) Ongoing design of remaining rehabilitation work not previously assigned to Rehabilitation Package Nos. 1 through 8 by Capital Improvement Projects Program Manager (CIPPM) (see Gantt Chart line 1714).
- ix.) Annual Construction Contract 1 continued lining and point repair construction (See Gantt Chart lines 1717–1719).
- x.) Ongoing procurement for SRAC 1 (see Gantt Chart lines 1766–1773).
- xi.) Completed procurement for Coop Agreement 1 (see Gantt Chart line 1794).
- xii.) Completed procurement for Coop Agreement 2 (see Gantt Chart lines 1798–1803).

### **b) Projects and Activities Anticipated for the Reporting Period 1/1/2020 to 6/30/2020**

- i.) Continue final design and construction of projects in Design Build Rehabilitation Packages No. 1, 2, and 3 (see Gantt Chart lines 1579–1656).
- ii.) For Rehabilitation Package Nos. 5, 6, 7, and 8, continue design of capacity improvement projects (see Gantt Chart lines 1682–1712).
- iii.) Begin construction of Package Nos. 5, 6, 7, and 8 projects to mitigate I/I.
- iv.) CIPPM to continue assigned cured-in-place pipe lining and point repair design (see Gantt Chart line 1714).

- v.) Annual Construction Contract 1, 2, 3, and 4 to continue lining and point repair construction (see Gantt Chart line 1717–1719).
- vi.) Continue construction under Coop Agreements 1 and 2 contracts (see Gantt Chart lines 1795–1797 and 1804–1806).
- vii.) Continue ongoing maintenance for assets in PASARP areas based on initial tiered assessments.

## **9. Ongoing Sewer Assessment and Rehabilitation Program (OSARP) (CD X 38.)**

### **a) Projects and Activities Accomplished for the Reporting Period 7/1/2019 to 12/31/2019**

- i.) Performed ongoing tiered assessment in OSARP areas. Completed approximately 1,029,653 lf of smoke testing, 1,039,210 lf of acoustic inspections, and 3,816 manhole condition assessments (see Gantt Chart lines 2070–2127).
- ii.) Completed approximately 4.27 miles of Totally Integrated Sonar and Camera Inspection Technique (TISCIT) assessments of large-diameter trunk sewers in OSARP areas (see Gantt Chart lines 2194–2215).
- iii.) Removed approximately 70 tons of debris from large-diameter trunks that may contribute to restoration of capacity in the system (see Gantt Chart lines 2218–2241).
- iv.) Continue procurement process for OSARP 1 and 2 tiered assessment contracts (see Gantt Chart lines 2129–2148 and 2151–2159).
- v.) Started assessments upstream of repeated SSO areas Sowell Estates, Meadow Creek Park, Garden Circle, and Beech Haven.

### **b) Projects and Activities Anticipated for the Reporting Period 1/1/2020 to 6/30/2020**

- i.) Continue tiered assessment in OSARP areas. Anticipate completing approximately 500,000 lf of smoke testing, 500,000 lf of acoustic inspections, and 2,500 manhole condition assessments (see Gantt Chart lines 2070–2127).
- ii.) Complete approximately 10 miles of TISCIT assessments of large-diameter trunks in OSARP areas (see Gantt Chart lines 2194–2215).
- iii.) Procure OSARP 1 tiered assessment contract (see Gantt Chart lines 2129–2148).
- iv.) Begin procurement of OSARP 2 tiered assessment contract (see Gantt Chart lines 2152–2159).

## **10. Maintenance Management System (MMS) Program (CD VI.B.iv)**

### **a) Projects and Activities Accomplished for the Reporting Period 7/1/2019 to 12/31/2019**

- i.) To address maintenance-related SSOs (grease, roots, debris, or any combination), the following maintenance activities were completed (see Gantt Chart line 3665):
  - a. Performed 431 miles of small-diameter (15 inches or smaller) sewer cleaning. This represents 16 percent of the system.
  - b. A total of 144 miles of sanitary sewer mains were treated for roots using chemicals. This represents 5.4 percent of the system.

- c. A total of 9,157,971 square feet (ft<sup>2</sup>), or approximately 173 linear miles, of easements were cleared. Clearing of easements is essential to provide access to appurtenances and curtail root growth that could damage pipes.
- ii.) Performed 308 sewer creek crossing inspections for pipes previously identified as needing revisit within a year (see Gantt Chart line 3666).
- iii.) Continued program of notifying property owners of private lateral maintenance needed. Using PASARP smoke testing data and pictures, DWM notified property owners that a private lateral defect was found on their property during testing. DWM requested that the owner repair the defect and respond with proof of completion. A total of 371 letters were sent, and 695 repairs were completed on laterals (see Gantt Chart line 3668).
- iv.) Used Sewer Line Rapid Assessment Tool (SL-RAT) acoustic inspection tool. DWM added a crew dedicated to using the tool to investigate blockages in pipes and determined if pipes needing cleaning based on the percent of the pipe that was blocked. The crew assessed 10 miles of pipe (see Gantt Chart line 3669).
- v.) Completed construction or rehabilitation of three lift station projects with 2019 milestone dates: Leeshire Lift Station (LS), New Gibraltar I LS, and Kings Way LS (see Gantt Chart lines 3367–3421, 3426–3497, and 3502–3573).
- vi.) Performed analysis of email notification procedures for spill and other CD notices.

**b) Projects and Activities Anticipated for the Reporting Period 1/1/2020 to 6/30/2020**

- i.) Use Chemical Root Control contract to treat areas of known root problems and areas that have a root-related SSO. Anticipate 110 miles of sewer main for treatment (see Gantt Chart line 3665).
- ii.) Use Easement Clearing contract to clear approximately 3,500,000 ft<sup>2</sup> of easements of vegetation to provide access for maintenance and for root control (see Gantt Chart line 3665).
- iii.) Complete creek crossing inspections for those crossings identified as needing yearly inspections. Approximately 400 crossings will be completed during this period (see Gantt Chart line 3666).
- iv.) Implement new system of email using mass notification with incident communication software.

## Gantt Chart

As detailed in the Introduction, the Gantt chart is to be used as the primary method for presenting a summary of projects and significant activities achieved or anticipated to be achieved during the reporting period. A description of the layout of the Gantt chart is provided below:

DeKalb County Department of Watershed Management		Semi-Annual Report #14															
ID	Task Name	Start	Finish	CD/CMOM Date	% Complete	2019											
						J	A	S	O	N	D	J	F	M	A	M	J

**Identification (ID)** - Number assigned to each task listed within the scheduling software. This field is used to sequence the order of tasks and to group like tasks under defined headings. The Gantt chart included in this Semi-Annual Report is a collapsed version of a larger project management scheduling chart. As required under the CD, only specific projects and significant activities are outlined in this report; therefore, the ID numbering is not sequential, and the attached chart does not represent the entirety of the tasks currently being undertaken by DWM in the Master Schedule. The number of activities will continue to grow and will be reported in successive Semi-Annual reports.

DeKalb County Department of Watershed Management		Semi-Annual Report #14															
ID	Task Name	Start	Finish	CD/CMOM Date	% Complete	2019											
						J	A	S	O	N	D	J	F	M	A	M	J

**Task Name** - Name of the task.

DeKalb County Department of Watershed Management		Semi-Annual Report #14															
ID	Task Name	Start	Finish	CD/CMOM Date	% Complete	2019											
						J	A	S	O	N	D	J	F	M	A	M	J

**Start** - Date the task started or is projected to start.

DeKalb County Department of Watershed Management		Semi-Annual Report #14															
ID	Task Name	Start	Finish	CD/CMOM Date	% Complete	2019											
						J	A	S	O	N	D	J	F	M	A	M	J

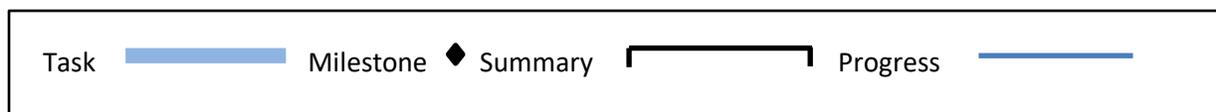
**Finished** - Date the task finished or is projected to finish.

DeKalb County Department of Watershed Management		Semi-Annual Report #14															
ID	Task Name	Start	Finish	CD/CMOM Date	% Complete	2019											
						J	A	S	O	N	D	J	F	M	A	M	J

**CD/CMOM Date** - Finish date for a milestone based on the CD and CMOM documents. Dates are assigned to milestone type tasks only; other tasks are blank.

DeKalb County Department of Watershed Management		Semi-Annual Report #14															
ID	Task Name	Start	Finish	CD/CMOM Date	% Complete	2019											
						J	A	S	O	N	D	J	F	M	A	M	J

**% Complete** - Status of a task is expressed as a percentage of the task's work (time-wise) that has been completed.



**Legend** - The tasks, milestones, summary, and progress are shown on the chart using the above symbols and line styles.

DeKalb County Department of Watershed Management		Semi-Annual Report #16																
ID	Task Name	Start	Finish.	CD/CMOM Date	% Complete.	2020												
						J	A	S	O	N	D	J	F	M	A	M	J	
4	<b>Capacity Management, Operations and Maintenance Programs (CMOM) Update</b>	4/4/14	12/31/24															
28	<b>0. Consent Decree Reporting</b>		Ongoing		Ongoing													
110	<b>Quarterly SSO Reporting</b>		Ongoing		Ongoing													
135	<b>Quarterly SSO Report (2019)</b>		Ongoing		Ongoing													
137	Submit Quarterly SSO Report 30	7/30/19	7/30/19	7/30/19	100													
138	Submit Quarterly SSO Report 31	10/30/19	10/30/19	10/30/19	100													
139	Submit Quarterly SSO Report 32	1/30/20	1/30/20	1/30/20	0													
140	<b>Quarterly Recurring Report to EPA (2020)</b>	4/30/20																
141	Submit Quarterly SSO Report 33	4/30/20	4/30/20	4/30/20	0													
142	<b>Semi-Annual Recurring Reporting to EPA</b>		Ongoing		Ongoing													
226	Submit Semi-Annual Report 15 to EPA	7/30/19	7/30/19	7/30/19	100													
234	Submit Semi-Annual Report 16 to EPA	1/30/20	1/30/20	1/30/20	0													
235	<b>Annual Recurring Reporting to EPA</b>		Ongoing		Ongoing													
296	Submit Annual Report 08 to EPA	2/28/20	2/28/20	3/2/20														
671	<b>1. Contingency and Emergency Response Plan (CERP)</b>		Ongoing		Ongoing													
678	<b>Training</b>		Ongoing		Ongoing													
679	Conduct CERP refresher training (246 DWM staff plus new employees in 2H19)		Ongoing		Ongoing													
680	Conduct SSO training regarding identification and reporting requirements (549 County staff plus new employees in 2H19)		Ongoing		Ongoing													
681	Continue monthly first responder training relating to CERP & operational policies and procedures		Ongoing		Ongoing													
682	Conduct CERP training to contractor personnel involved with CD-related projects (62 Contractor staff in 2H19)		Ongoing		Ongoing													
683	<b>Community Awareness</b>		Ongoing		Ongoing													
684	Continue to expand social media presence for spill reporting		Ongoing		Ongoing													
685	Amplify community awareness and educational efforts relating to FOG (distributed 3,382 FOG flyers in 2H19)		Ongoing		Ongoing													
686	<b>Corrective Actions</b>		Ongoing		Ongoing													
688	Continue to monitor and coordinate areas for follow up cleaning or rehabilitation (117,000 lf cleaned in 2H19)		Ongoing		Ongoing													
689	Finalize & implement revisions to identification and reporting of inflow and infiltration and storm event caused SSO's. This includes training, updating Cityworks and reporting documentation		Ongoing		Ongoing													
690	Strengthen focus on proper identification of the root cause, short term and long term solutions of SSO's		Ongoing		Ongoing													
691	Address long term solutions to maintenance related SSO's by implementing root control and cleaning asset management programs		Ongoing		Ongoing													
692	<b>2. Fats, Oils and Grease (FOG) Management Program</b>		Ongoing		Ongoing													
693	<b>Community Education</b>		Ongoing		Ongoing													
694	Sponsor public outreach with FOG info (124 Events reaching 3,000 citizens in 2H19)		Ongoing		Ongoing													

Statused through 12/31/19

Page 1

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DeKalb County Department of Watershed Management		Semi-Annual Report #16																					
ID	Task Name	Start	Finish.	CD/CMOM Date	% Complete.	2020																	
						J	A	S	O	N	D	J	F	M	A	M	J						
953	Evaluate/Inspect wastewater pipe (29,432 lf in 2H19)		Ongoing		Ongoing																		
954	Review lift station acquisitions as required (0 In 2H19)		Ongoing		Ongoing																		
955	Complete wastewater plan reviews of buildings (522 In 2H19)		Ongoing		Ongoing																		
956	Complete wastewater plan reviews of land disturbances (100 In 2H19)		Ongoing		Ongoing																		
957	Complete final plat reviews (29 in 2H19)		Ongoing		Ongoing																		
958	Complete FOG building reviews (501 In 2H19)		Ongoing		Ongoing																		
959	Review sewer capacity requests (208 received in 2H19)		Ongoing		Ongoing																		
960	Issue capacity letters (331 in 2H19)		Ongoing		Ongoing																		
964	Continue to review new and ongoing development projects for sewer line connectivity as submitted during the permitting process		Ongoing		Ongoing																		
965	Continue to review projects converting from septic to sewer		Ongoing		Ongoing																		
966	Continue to review final plats, as-builts and sewer easements for acceptance		Ongoing		Ongoing																		
967	Continue providing customer service to applicants/citizens requesting assistance		Ongoing		Ongoing																		
968	Review lift station acquisitions as required		Ongoing		Ongoing																		
969	Use the revised interim protocols for capacity assurance and certification of capacity connections		Ongoing		Ongoing																		
970	Formalize the capacity allotment process and revise sewer capacity letters to reflect the parameters of the process		Ongoing		Ongoing																		
971	Integrate capacity allotment process with cities' permitting procedures		Ongoing		Ongoing																		
972	Continue using steady state hydraulic routing model for capacity request reviews until dynamic models are approved by the County		Ongoing		Ongoing																		
973	<b>7. System-Wide Hydraulic Model</b>	<b>3/1/18</b>	<b>2/5/20</b>																				
976	<b>Dynamic Model Development - Intrenchment Creek</b>	<b>4/2/18</b>	<b>9/3/19</b>		<b>100</b>																		
1014	<b>Report &amp; Training</b>	<b>4/17/19</b>	<b>9/3/19</b>		<b>100</b>																		
1017	DWM and Peer review of draft hydraulic modeling report	6/3/19	8/2/19		100																		
1018	CDPMT schedule workshop to review hydraulic modeling report	8/2/19	8/2/19		100																		
1019	CDPMT receives DWM and Peer review comments and adjudicates	8/5/19	8/16/19		100																		
1021	County and Peer review of final package including hydraulic modeling report	8/19/19	8/23/19		100																		
1022	CDPMT to address County and Peer review comments to final package	8/27/19	9/3/19		100																		
1024	CDPMT to provide training to County staff on model	8/23/19	8/23/19		100																		
1025	<b>Dynamic Model Development - Nancy Creek</b>	<b>4/2/18</b>	<b>9/6/19</b>		<b>100</b>																		
1063	<b>Report &amp; Training</b>	<b>4/17/19</b>	<b>9/6/19</b>		<b>100</b>																		
1066	DWM and Peer review of draft hydraulic modeling report	6/3/19	8/9/19		100																		
1067	CDPMT schedule workshop to review hydraulic modeling report	8/2/19	8/2/19		100																		
1068	CDPMT receives DWM and Peer review comments and adjudicates	8/12/19	8/23/19		100																		
1070	County and Peer review of final package including hydraulic modeling report	8/26/19	8/30/19		100																		
1071	CDPMT to address County and Peer review comments to final package	9/3/19	9/6/19		100																		
1073	CDPMT to provide training to County staff on model	8/23/19	8/23/19		100																		

Stated through 12/31/19







DeKalb County Department of Watershed Management						Semi-Annual Report #16											
ID	Task Name	Start	Finish	CD/CMOM Date	% Complete	2020											
						J	A	S	O	N	D	J	F	M	A	M	J
1605	Proj 04 - 3924 Roman Court (Phase 2)	4/22/19	9/17/19		100	9/17											
1606	Proj 05 - ASF1	4/24/19	6/4/19		100	4											
1607	Proj 06 - 121 Lucerne Street (OSARP SSO)	12/17/19	2/19/20		0	2/19											
1608	Proj 10 - Lindsey Dr	6/3/19	6/5/19		100	5											
1609	Substantial Completion [03/20/20]	2/25/20	2/19/20		0	2/25											
1610	Final Completion [05/20/20]	5/20/20	5/20/20		0	5/20											
1611	<b>Design Build Contract 2 - Package 2</b>	<b>1/12/18</b>	<b>6/19/20</b>														
1612	<b>DB2 Design</b>	<b>1/12/18</b>	<b>2/28/20</b>														
1618	Contractor Submit Drawings for Construction	1/2/19	6/28/19		100	6/28											
1619	County Approves Drawings for Construction	1/2/19	2/28/20		70	2/28											
1620	<b>DB2 Construction</b>	<b>4/16/18</b>	<b>6/19/20</b>	<b>6/20/20</b>													
1621	Proj 01 - 5139 North Peachtree Road (OSARP SSO)	5/1/18	2/28/20		44	2/28											
1622	Proj 02 - Valley View (CIP Project)	12/20/18	12/11/19		100	1/31											
1624	Proj 04 - Nancy Creek Branch 2	3/1/19	4/22/20		50	4/22											
1625	Proj 05 - Nancy Creek Branch 1	2/26/19	5/6/20		50	5/6											
1626	Proj 06 - A-IG2	5/16/18	5/1/20		52	5/1											
1627	Proj 07 - 2737 Winding Lane (PASARP SSO)	11/29/18	10/24/19		100	10/24											
1629	Proj 09 - I-IG10	4/16/18	2/3/20		95	2/3											
1632	Proj 12 - 1760 Mason Mill Road (OSARP SSO)	7/18/18	2/12/20		75	9/11											
1636	Proj 16 - A-SF7	9/13/18	3/11/20		70	3/11											
1637	Substantial Completion [03/20/20]	5/6/20	5/6/20		0	5/6											
1638	Final Completion [06/20/20]	6/19/20	6/19/20		0	6/19											
1639	<b>Design Build Contract 3 - Package 3</b>	<b>10/25/18</b>	<b>7/30/21</b>														
1640	<b>DB3 Design</b>	<b>10/25/18</b>	<b>6/19/20</b>														
1646	Contractor Submit Drawings for Construction	4/9/19	1/31/20		90	1/31											
1647	County Approves Drawings for Construction	9/3/19	2/14/20		75	2/14											
1648	<b>DB3 Construction</b>	<b>8/1/19</b>	<b>9/10/21</b>	<b>6/20/20</b>													
1649	Proj 01 - 3597 Sunderland Circle, 1083 Wimberly Rd, A-IG4 (EPA, OSARP SSO)	8/1/19	5/14/20		30	5/14											
1650	Proj 02 - 1576 Nantahalla Court (EPA)	8/1/19	5/14/20		30	5/14											
1651	Proj 03 - 2312 Clairmont Rd, A-IG6 (EPA)	8/1/19	5/22/20		16	5/22											
1652	Proj 04 - 854 Sheppard Rd (OSARP SSO)	10/17/19	11/16/20		50												
1653	Proj 04 - A-SF2 (OSARP SSO)	10/17/19	7/30/21		50												
1654	Proj 05 - Snapfinger Woods Dr (OSARP SSO)	8/29/19	10/30/20		30												
1655	Proj 06 - 215 Beaumont Avenue (EPA)	8/29/19	3/27/20		92	3/27											
1656	Proj 07 - 608 S McDonough St (EPA)	2/3/20	4/30/20		0	4/30											
1657	Substantial Completion [03/20/20]	3/30/20	7/30/21		0												
1658	Final Completion [06/20/20]	8/2/21	9/10/21		0												
1682	<b>Annual AE Contract 1 - Package 5 (Design Only)</b>	<b>5/11/18</b>	<b>3/16/20</b>	<b>6/20/20</b>													
1688	Priority 1 Projects (Components 3, 4, 12, 14)	3/13/19	2/14/20		40	2/14											
1689	Priority 2 Projects (Components 2, 5, 6, 9, 11, 13)	3/13/19	3/16/20		20	3/16											

Stated through 12/31/19

Page 8

Printed 1/28/20 4:38 PM





DeKalb County Department of Watershed Management		Semi-Annual Report #16																					
ID	Task Name	Start	Finish	CD/CMOM Date	% Complete	2020																	
						J	A	S	O	N	D	J	F	M	A	M	J						
1863	Task 12 - Phs 1a - Garden Cir / McAfee Rd {SRAC}	3/2/20	7/30/21		0																		
1864	Task 13 - Phs 1a - 3449 Brookfield Lane / 4124 Flakes Mill Road {RGI}	10/30/19	10/30/19		100																		
1865	Task 13 - Phs 2a - 3449 Brookfield Lane / 4124 Flakes Mill Road {Insituform}	5/1/20	7/30/21		0																		
1866	Task 13 - Phs 2b - 3449 Brookfield Lane / 4124 Flakes Mill Road {SRAC}	3/2/20	7/30/21		0																		
1867	Task 14 - Phs 1a - Panthersville Road {Granite}	9/13/19	3/11/20		70																		
1868	Task 14 - Phs 1b - Panthersville Road {RGI}	12/5/19	12/5/19		100																		
1869	Task 14 - Phs 2a - Panthersville Road {Insituform}	1/10/20	7/30/21		0																		
1870	Task 14 - Phs 2b - Panthersville Road {SRAC}	6/1/20	7/30/21		0																		
1871	<b>9. Ongoing Sewer Assessment and Rehabilitation Program (OSARP)</b>	<b>11/1/14</b>	<b>7/27/23</b>																				
2068	<b>OSARP Projects by Work Order</b>	<b>5/10/17</b>	<b>7/15/22</b>																				
2069	<b>OSARP Tiered Projects Tier I Assessments</b>	<b>5/10/17</b>	<b>12/31/19</b>																				
2070	<b>Acoustic Testing (1,039,210 lf in 2H19)</b>	<b>5/10/17</b>	<b>3/31/20</b>																				
2083	Intrenchment Creek	3/26/18	3/31/20		96																		
2084	Nancy Creek	3/1/19	3/31/20		72																		
2085	Upper Snapfinger Creek	2/1/19	3/31/20		94																		
2086	South Fork Peachtree Creek	4/1/19	3/31/20		61																		
2087	Barbashela Creek	6/3/19	3/31/20		1																		
2088	Lower Snapfinger Creek	7/1/19	3/31/20		95																		
2090	<b>Smoke Testing (1,029,653 lf in 2H19)</b>	<b>5/10/17</b>	<b>3/31/20</b>																				
2103	Intrenchment Creek	3/26/18	3/31/20		97																		
2104	Nancy Creek	3/26/18	3/31/20		95																		
2105	Upper Snapfinger Creek	2/1/19	3/31/20		92																		
2106	South Fork Peachtree Creek	3/1/19	12/31/19		100																		
2107	Barbashela Creek	6/3/19	12/31/19		100																		
2108	Lower Snapfinger Creek	7/1/19	3/31/20		98																		
2110	<b>Manhole Condition Assessments (MCA) (3,816 each in 2H19)</b>	<b>5/10/17</b>	<b>3/31/20</b>																				
2123	Intrenchment Creek	3/26/18	3/31/20		97																		
2124	Upper Snapfinger Creek	2/1/19	3/31/20		56																		
2125	South Fork Peachtree Creek	3/1/19	3/31/20		59																		
2126	Barbashela Creek	6/3/19	3/31/20		1																		
2127	Lower Snapfinger Creek	7/1/19	3/31/20		50																		
2129	<b>OSARP1 Tiered Projects Assessments - Procurement</b>	<b>2/9/18</b>																					
2145	PWI Committee Approval of Contract	9/17/19	9/17/19		100																		
2146	BOC Action to Approve Contract	9/18/19	12/17/19		100																		
2148	Procurement and Contracting Issuance NTP	12/18/19	1/31/20		10																		
2149	<b>OSARP1 Tiered Projects Assessments</b>	<b>2/3/20</b>		NA																			
2150	TBD Projects	2/3/20		NA																			
2151	<b>OSARP2 Tiered Projects Assessments - Procurement</b>	<b>1/13/20</b>																					
2155	DWM submits draft ITB to P&C	2/24/20	2/24/20																				
2159	P&C Issue Bid Package	4/30/20	4/30/20		100																		

Stated through 12/31/19

Page 11

Printed 1/28/20 4:38 PM





