BURNS McDONNELL

March 29, 2019

Chief, Environmental Enforcement Section
Environment and Natural Resources Division
U.S. Department of Justice
Box 7611 Ben Franklin Station
Washington, D.C. 20044-7611
Re: DOJ No. 90-5-1-1-09841

Brad Ammons
Environmental Engineer
Clean Water Enforcement Branch
Municipal and Industrial Enforcement
U.S. EPA Region 4
61 Forsyth Street, SW
Atlanta, GA 30303

Karl Fingerhood
Environmental Enforcement Section
U.S. Department of Justice
Box 7611 Ben Franklin Station
Washington, D.C. 20044-7611

Diane Schober
Office of Pollution Control
Environmental Compliance & Enforcement Div.
P.O. Box 2261
Jackson, MS 39225-2261

Re: City of Jackson, Mississippi - EPA Consent Decree
Semi-Annual Report No. 12

Dear Lady and Sirs:

On behalf of the City of Jackson, please find enclosed the Jackson Consent Decree Semi-Annual Report # 12. Should you have any questions, please contact me.

Sincerely,

David Hauser

David Hauser, P.E.
Program Manager

Enclosure
ec: Honorable Chokwe Antar Lumumba, Mayor, City of Jackson
Timothy C. Howard, City Attorney, City of Jackson
Robert Miller, Director of Public Works, City of Jackson
Terry Williamson, Legal Counsel, City of Jackson
Public Depository, Eudora Welty Public Library

9400 Ward Parkway \ Kansas City, MO 64114
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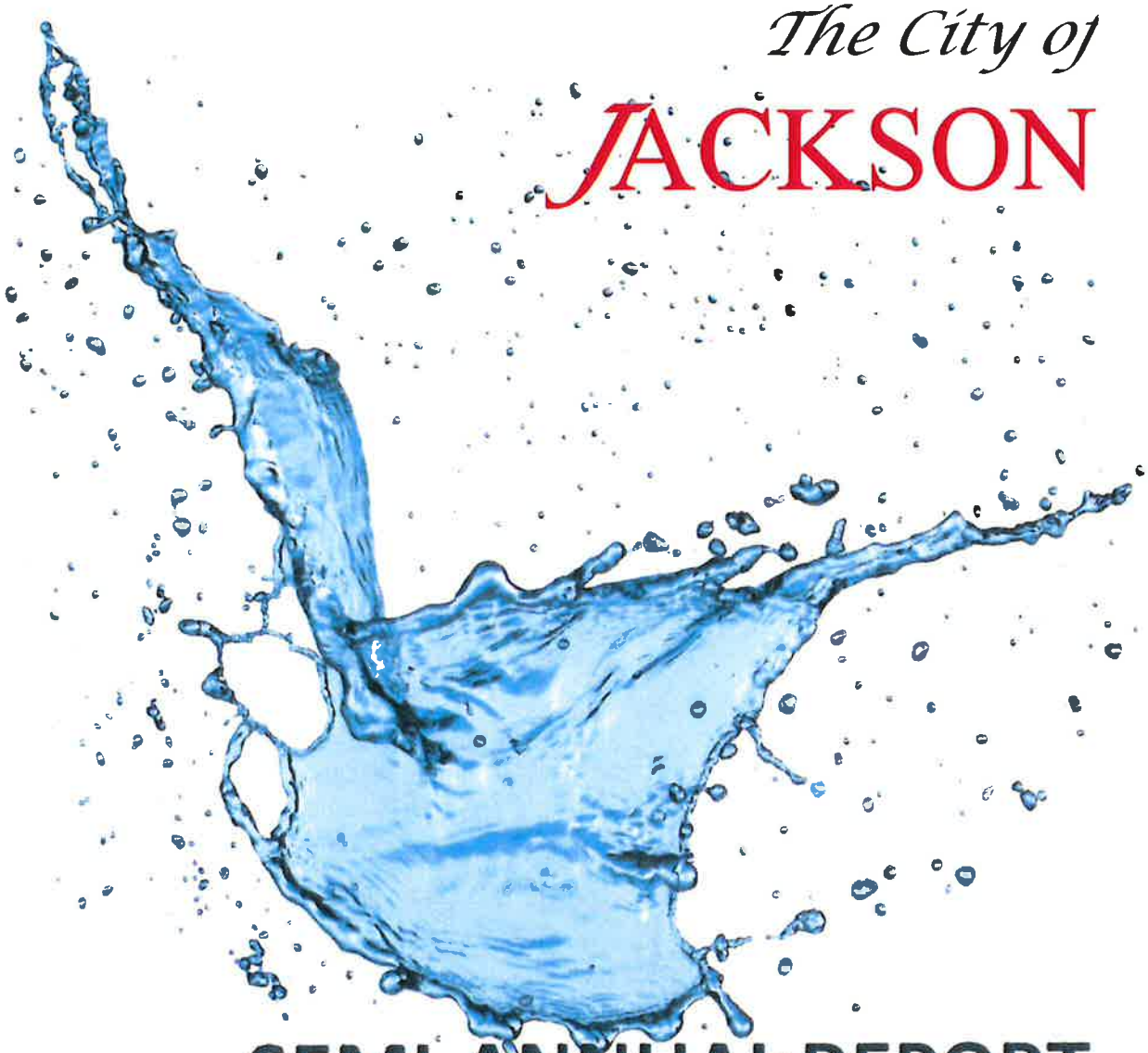
The City of

JACKSON



SEMI-ANNUAL REPORT
REPORT NO. 12

SEPTEMBER 2018 Through FEBRUARY 2019

Department of Public Works
Consent Decree Program

City of Jackson
Wastewater Consent Decree Program

Semi-Annual Report No. 12
September 2018 through February 2019

March 25, 2019

Prepared for:

City of Jackson
Department of Public Works
P.O. Box 17
Jackson, MS 39205-0017

Prepared by:

Burns & McDonnell
308 Pearl Street, Suite 104
Jackson, MS 39201

City of Jackson, Mississippi
Semi-Annual Report No. 12
September 2018 through February 2019

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.

Chokwe Antar Lumumba, Mayor

3/27/2019

Date

Robert K. Miller, Director
Department of Public Works

March 26, 2019

Date

Semi-Annual Report No. 12
September 2018 through February 2019

Contents

1.0 Introduction

1.1 Overview

On March 1, 2013, the Consent Decree (CD) agreed to by the City of Jackson, Mississippi, U.S. Environmental Protection Agency (EPA), and the Mississippi Department of Environmental Quality (MDEQ) regarding the wastewater collection and treatment system was entered by the U.S. Court, Southern District of Mississippi. Over a 17½ year timeline, the Consent Decree requires the City to:

- Develop, submit, finalize, and implement plans for the continued improvement of the Wastewater Collection and Transportation System (WCTS) and Wastewater Treatment Plants (WWTPs);
- Eliminate Sanitary Sewer Overflows (SSOs), effluent limit violations (including any violations of the new effluent limits for nutrients), and reporting violations, and
- Minimize Prohibited Bypasses.

One of the ongoing requirements of the EPA Consent Decree is to submit periodic reports to demonstrate continuing compliance. The specific reporting requirements of the CD are described below.

1.2 Authority to Promulgate

Burns & McDonnell Engineering Company, Inc. was retained to assist the City in addressing the requirements of the Consent Decree under a Program Management contract. Accordingly, the Program Management team prepared this Semi-Annual Report with input from the City and its various contractors to fulfill the requirements of Section IX ¶ 57 (b) set forth in the CD.

1.3 Consent Decree Requirements for Semi-Annual Report

As stated in the Consent Decree Section IX ¶ 57 (b), the Semi-Annual Report be submitted beginning thirty (30) Days after the first full six (6)-month period following the Date of Entry of this Consent Decree, and thirty (30) Days after each subsequent six (6)-month period until termination of the Consent Decree and shall contain the following, at a minimum:

Semi-Annual Reports ...the City shall submit to EPA for review and approval a Semi-Annual Report.

Each Semi-Annual Report shall include, at a minimum:

(i) *A description of projects and activities completed and milestones 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 description of the status of compliance or non-compliance with the requirements of this Consent*

Decree and, if applicable, the reasons for non-compliance. If any non-compliance cannot be fully explained at the time the report is due, the City shall include a statement to that effect in the report. The City shall investigate to determine the cause of the non-compliance and then shall submit an amendment to the report, including a full explanation of the cause of the non-compliance, within thirty (30) Days after submission of the Semi-Annual Report.

(ii) *A summary of significant projects and activities anticipated to be performed, and milestones 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 Project Schedule has been updated to the extent possible. However, because of the City's lack of available funding for the CD Program several of the Project Schedule Tasks have been deferred for a period of time or until additional funding is secured.

(iii) *Any additional information the City determines is appropriate to demonstrate that the City is implementing the remedial actions required under this Consent Decree in an adequate and timely manner.*

Because of the City's lack of available funding for the CD Program several of the Project Schedule Tasks have been deferred until additional funding is secured.

1.4 Compliance Statement

For the reporting period of September 1, 2018 through February 28, 2019, the City of Jackson, to the best of its knowledge, is compliant with the requirements of the Consent Decree entered on March 1, 2013, except with the late submission and not achieving full implementation of the following items:

- Semi-Annual Report 7
- Quarterly Reports 14 and 15
- Annual Report 4
- Private Lateral Program
- Gravity Line Preventive Maintenance Program
- Training Program
- Water Quality Monitoring
- FOG Program

- Pump Stations Operations Program
- Pump Station Preventative Maintenance Program
- Capacity Assurance Program
- Financial Capacity Analysis Program
- Group 1 SSES Field Work
- Group 1 Sewershed Rehabilitation Plan.

2.0 Summary of Activities for the Reporting Period

The City and the Program Management Team continue to assess the current situation and ongoing activities, developing action plans for future required activities. These activities will be more fully discussed in Section 2.5 and in subsequent Semi-Annual Reports.

2.1 Wastewater Collection and Transmission System

2.1.1 West Bank Interceptor Work Plan

The West Bank Interceptor Work Plan was completed and submitted to EPA on July 30, 2013 in compliance with the requirements of the Consent Decree. The City received approval from the EPA on June 17, 2014. The West Bank Rehabilitation Plan was submitted to EPA on April 17, 2016 and revised May 3, 2017 in compliance with the Consent Decree.

The Consent Decree requires rehabilitation of 20% of the West Bank Interceptor by 2022 (Phase 1). To date, 37% of the West Bank Interceptor has been fully rehabilitated with plans in place to rehabilitate a total of 50% by 2022, as funding is available.

The following work has been completed or is planned, which is on schedule with the EPA approved Work Plan:

- Three (3) segments have been completed (cleaning and rehabilitated) totaling 29,195 LF of interceptor.
- Seven (7) segments are in planning (Projects 4, 5, 6, 7 & 8) totaling 31,920 LF of interceptor will be planned for completion by 2022.
- Five (2) segments (Projects 9 and 10) totaling 6,555 LF of interceptor, have been identified for additional future work.

Table 1 below provides the status of implementation of the West Bank Interceptor Rehabilitation Plan. Phase 1 of this plan was completed well in advance of the Consent Decree deadline.

Table 1 Status of implementation of the West Bank Interceptor Phase I Rehabilitation Plan

Project	Segment	Work Required	Length, ft.	Planned Schedule	Status
1	IT0052-IT0082	Cleaning & Rehab	14,913	2015	Completed in 2015
2	IT0082-IT0098	Cleaning & Rehab	6,854	2016	Completed in 2016
3	IT0098-IT0118	Cleaning & Rehab	7,428	2022	Completed August 2017
4	IT0148-IT0171	Cleaning	9,537	2022	Planning in development.
5	IT0136-IT0148	Cleaning	6,619	2022	Planning in development.
6	IT0118-IT0136	Cleaning & Rehab	7,656	2022	Planning in development.
7	IT0035-IT0043	Cleaning & Rehab	4,729	2022	Planning in development.
8	TP0002-IT0002 IT0009-IT0012 IT0028-IT0029	Cleaning Cleaning Cleaning	1,568 1,087 724	2022	Planning in development.
9	IT0021-IT0033	Cleaning & Rehab	5,651		Planning in development
10	TP002-IT0001	Cleaning & Rehab	904		Planning in development

Work activities anticipated during the next reporting period:

- Work on Project 4, which is a cleaning project in toward the northern end of the West Bank Interceptor is anticipated to begin

2.1.2 West Bank Interceptor Flow Monitoring

As indicated in the West Bank Interceptor Work Plan, the first activity required is to conduct sewage flow monitoring to determine the severity of I/I in various segments along the length of West Bank Interceptor. The flow metering is needed to meet the requirements of the West Bank Interceptor Rehabilitation Plan.

Work Activities for this period for the flow monitoring project are:

- Continued long-term flow monitoring and data analysis at 29 sites.
- Reviewed I/I Analysis Draft Report for West Bank Interceptor Flow Meters.
- Appendix A provides a summary of the West Bank Interceptor Flow Meter data from September 2017 through February 2019.

Work activities anticipated during the next reporting period:

- Continue Long Term Flow monitoring.
- Continue to review meter data for flow anomalies

Data generated from the flow monitoring is reviewed on a regular basis by City and Program staff to detect any unusual occurrences. The flow metering contractor (CSL Services) also alerts the City staff if any unusual occurrences are noted between reporting periods.

2.1.2 Sewershed Prioritization Work Plan

Work Activities for this period are:

- Completed dry weather and wet weather flow analysis on 20 additional flow meters utilizing the EPA SSOAP Toolbox in support of hydraulic model development.
- Began update of the Flow Analysis Technical Memorandum to reflect additional analysis of the 20 meters analyzed.
- Updated hydraulic model construction with available manhole surveys, pump station capacity assessment data and the 20 additional flow meters to support hydraulic model calibration.
- Completed dry weather model calibration for the 20 additional metering locations.

Work activities anticipated during the next reporting period:

- Complete dry and wet weather calibration and verification of the hydraulic model.
- Complete synthetic design 2-yr, 24-hour storm for use in existing condition simulations.
- Simulate system-wide existing conditions evaluation utilizing calibrated and verified hydraulic model.

2.1.3 Sewershed Evaluation Plan

Due to lack of available funding, the contracts to the three selected firms to perform the SSES work were never awarded and this work was never completed. Currently, with the Consent Decree Modification Framework submitted, it is proposed that Sewer Evaluation Plan be revised and the Sewer Groups 1 and 2 modified to be based on repairing sewer defects causing dry and wet weather chronic SSOs in order to restore the conveyance capacity of the existing sewers.

Work Activities for this period:

- No activities were performed within this reporting period on the Sewershed Evaluation Plan due to lack of available funding.

Work activities anticipated during the next reporting period:

- SSES work will not be performed at this time, since the priorities are eliminating SSOs and repairing collapsed sewer lines, as part of the Gravity Line Preventative Maintenance Program.

2.2 Wastewater Treatment Facilities

2.2.1 Savanna WWTP Improvements

Type 1 and Type 2 remedial measures shall include, minor process changes, minor equipment additions or enhancements, or flow configuration changes to meet NPDES Permit effluent limits and to maximize Secondary Treatment of peak wet weather flow through the Savanna Street WWTP.

Type 3 remedial measures shall include any capital improvements, including, without limitation, the addition of a clarifier of equal size to the existing clarifiers at the Savanna Street WWTP and Biological Nutrient Removal ("BNR"). The design of these improvements is being proposed to be delayed to a later date as described in the October 4, 2018 submitted Consent Decree Modification framework.

Work Activities for this period for this activity:

- The Design Consultant completed the 60% design documents for the Type I and II improvements in the current SRF loan scope and continued work to complete 100% design plans and specifications as required by the Loan Agreement.
- The completion of the revised SRF Facilities Plan will deferred for a period of time or until additional funding can be secured. The revised Plan would include the remaining Type II improvements to be constructed.

Work activities anticipated during the next reporting period:

- Complete 100% design plans and specifications and submit to MDEQ on or before March 29, 2019, as required by the Loan Agreement.
- Secure MDEQ Approval of Plans and Specifications on or before June 27, 2019, as required by the Loan Agreement.
- Submit clear site certificates and title counsel for all real property, secure necessary local funds for the project and submit proof of such funds, and submit any other required permits or clearances on or before September 25, 2019, as required by the Loan Agreement.

2.2.2 Savanna WWTP Impact Analysis Study

The City and Program Team began developing this study in October 2018 when it became known that the West Rankin Utility Authority (WRUA) indicated they were going to be leaving the City of Jackson's wastewater system. The purpose it to inform the City on the flow, treatment and financial impacts of WRUA's departure.

Work Activities for this period for this activity:

- Began development of Impact Analysis Study

Work activities anticipated during the next reporting period:

- Complete Impact Analysis Study and review impact to Savanna WWTP Capital Improvements.

2.3 Capacity, Management, Operations and Maintenance Programs

The Consent Decree requires the City to implement various programs to properly address capacity and to maintain, operate and manage sanitary wastewater collection, transmission and treatment systems, investigate capacity-constrained areas of these systems, and respond to SSO events.

The following sections briefly address CMOM activities for the reporting period.

2.3.1 Capacity Assurance Program (CAP)

Work Activities for this period for this activity:

- The Existing Conditions Hydraulic model development is nearing completion for the sewer collection system.
- Because of limited available funding, the City is proposing elimination or deferral of the CAP MOM Program.

Work activities anticipated during the next reporting period:

- Because of limited available funding, the City is proposing elimination or deferral of the CAP Program.

2.3.2 Training Program

Significant milestones reached this period for this activity:

- The Training Program has been developed in full.

Work activities anticipated during the next reporting period:

- Review Training program objectives and propose changes as needed.
- Submit Training Program to be certified in full compliance of the Consent Decree.

2.3.3 Sewer Overflow Response Plan

Work Activities for this period for this activity:

- Continued remotely monitoring high water alarms on lift stations.
- Continued Regulatory Agency notifications.
- Submitted Quarterly Reports #22 and #23.
- Conducted training session with emphasis on proper completion of SSO Report form.
- Continued monthly updates of post rainfall inspection lists and mapping through December 2018.
- Conducted 957 post rainfall location inspections. 109 locations were found to have an SSO occurring or evidence of previous SSO. These locations were reported to Sewer Maintenance for follow up response.
- Continued routine inspections of locations that have unresolved issues, such as collapsed pipes, that contributed to SSOs.
- Continued mapping of Food Service Establishments, collection system failures & dry weather SSO locations for analysis through December.

Work activities anticipated during the next reporting period:

- Prepare and submit Quarterly Reports #24 (by Program Management Staff) and #25 (by City staff).
- Continue to remotely monitor all pump station high water levels and respond accordingly – by Veolia.
- Update and maintain SSO database, utilizing Program Management Staff through June. Beginning in July, this will be continued by City staff unless financial

situation changes.

- Continue to map locations with multiple SSO occurrences for inspection utilizing Program Management Staff through June. Beginning July this will be continued by City staff unless financial situation changes.
- Review and inspect locations with multiple SSO occurrences and determine needs by City personnel.
- Conduct annual Program review by City personnel.
- Continue to develop Standard Operating Procedures for activities conducted under the SORP by City personnel.

2.3.4 Inter-Jurisdictional Agreement Program

Work Activities for this period:

- No activities were performed.

Work activities anticipated during the next reporting period:

- No activities are planned.

2.3.5 Private Lateral Program

Work Activities for this period:

- No activities were performed.

Work activities anticipated during the next reporting period:

- No activities are planned.

2.3.6 Water Quality Monitoring Program

Work Activities for this period for this activity:

- No activities were performed.

Work activities anticipated during the next reporting period:

- No activities are planned.

2.3.7 Pump Station Operations Program

Work Activities for this period for this activity:

- The contract operator (Veolia) is required to be compliant with the approved Pump Station Operations Program as part of their contract with the City.
- Emergency Pump Around (EPA) connections have been installed at 40 of 99 pump stations.
- Developed a phased plan to install EPAs at the remaining stations.
- The Program Management Team and the City regularly monitor the Veolia performance and have determined Veolia is in compliance with the Pump Station Operations plan.

Work activities anticipated during the next reporting period:

- Veolia will continue to install EPAs with maintenance personnel as needed as maintenance funding allows
- Review program metrics, monitor Veolia's implementation of program, and evaluate Veolia's operations reports and rehabilitation plans.

2.3.8 Fat, Oils and Grease Program

Work Activities for this period:

- Rollout of FOG Public Outreach Campaign to Jackson residents. Residents were provided with bookmarks printed on both sides with proper FOG disposal steps, and plastic lids with City logo and proper FOG disposal.
- Key Food Service Establishment (FSE) data collected:
    - Quantity of FSEs data in database- 1029
    - Number of inspections completed - 1719

Work activities anticipated during the next reporting period:

- Continue Public Outreach Campaign to educate Jackson residents with

proper FOG disposal.

- Continue to update City's food service establishment database on CityWorks.
- City will continue to process new development and change of use building permit applications to assure initial compliance with ordinance grease control device requirements. Because of limited personnel, the City will be unable on perform compliance inspections. Enforcement will proceed with non-compliance is discovered through SORP activities or when otherwise reported to the City

2.3.9 Pump Station Preventative Maintenance Program

Work Activities for this period for this activity:

- Veolia (Contract Operator) was issued a Notice to Proceed for engineering firm to begin design for the following 2 pump stations and the Notice to Proceed for construction has been given for two (2) other pump stations.
    - Western Hills and Whitestone- Construction Complete.
    - Forest Avenue and Windsor Forest- Design Complete
    - Westside #4 – Design Complete

Work activities anticipated during the next reporting period:

- Forest Avenue and Windsor Forest gravity line construction projects are currently on hold due to available funding.
- Continue easement and permit activities for Windsor Forest and Westside #4 projects
- Begin construction activities on Westside #4
- Review program metrics, monitor Veolia's implementation of program, and evaluate Veolia's maintenance reports and rehabilitation plans.

2.3.10 Gravity Line Preventative Maintenance Program

Work Activities for this period for this activity:

- Completed the following Collection System Emergency Repair/Replacement projects:

Project	Final Cost
Ridgewood Rd & Lenox Dr	$393,388
Rolling Meadows	$ 40,478
Briarfield Rd	$ 60,000
Northside Dr/Old Canton Rd	$192,454
Kimwood Dr	$ 59,493

o Wingfield Cir	$197,751
o George St	$107,551
o Colonial Dr	Not yet available
o Old Canton Rd	$ 14,900
o Northside Dr (Kimwood Dr to Ridgewood Rd)	$ 78,895

- Construction underway on the following Collection System Emergency Repair/Replacement projects:

Project	Projected Cost
o West St	$740,000
o Leila Dr	$491,875
o Southerland Dr	$422,140

- Design underway on the following Collection System Emergency Repair/Replacement projects:

Project	Design Cost
o Linde Dr	$304,600
o Eubanks Creek Interceptor	$313,244

Work activities anticipated during the next reporting period include:

- Planning/Design/Construction activities projected to begin on the following Collection System Emergency Repair/Replacement projects:

Project	Estimated Cost
o Meadowbrook Dr	$1,200,000
o Pleasant Ave	$ 350,000
o Delaware Ave	$ 37,000

Project	Estimated Cost
o Marshall Pl	$ 34,000

o	Ridgewood Rd (Northside Dr to Meadowbrook)	$ TBD
o	Linde Dr	$3,000,000

- Continue to hire sewer maintenance staff to fill open positions based on available budget.

2.3.11 WWTP Operations and Maintenance Program

Work Activities for this period:

- Preventative maintenance software Llumin (formerly known as eRportal) has fluctuated from September through December due to an upgrade of the company's software to a new system. This caused the system to function improperly. Veolia continues to work with the IT department for Llumin to correct and modify the system to work efficiently for this location. A recent update on January 4, 2019 to their system was added to correct some of Veolia's concerns. Veolia will continue to work with Llumin to ensure the software is working properly. A partial listing of maintenance activities for the reporting period is included in Appendix C.
- Monthly meetings were held with City, Veolia and Program Management staff to review operations and maintenance activities and discuss any issues.

Work activities anticipated during the next reporting period:

- Review program metrics, monitor Veolia's implementation of Consent Decree program, and review monthly operations reports and rehabilitation plans.

2.3.12 Financing and Cost Analysis Program

Work Activities for this period for this activity:

- Started full development of Long-Term Financial Plan

Work activities anticipated during the next reporting period:

- Continue implementation of the Program as required.

2.4 Supplemental Environmental Project

The purpose of the Supplemental Environmental Project ("SEP") is to reduce extraneous

flows entering the Wastewater Collection and Transmission System (WCTS) through defective residential Private Laterals and through illicit connections from residential properties of eligible property owners. For purposes of this SEP, an illicit connection is any residential connection to the WCTS that discharges any substance or solution that is not intended to be transferred via the WCTS, such as stormwater, surface water runoff and roof runoff. The WCTS becomes a conduit for stormwater when defective Private Laterals or illicit connections allow rain or groundwater to enter the WCTS.

Work Activities for this period for this activity:

- To expedite the implementation of this project, the City of Jackson moved this project under the Consent Decree Program Management Team officially in October 2018.
- A Contractor Forum was held in December 18, to gage the interest of the local small plumbing and contracting community and answer questions regarding the work to be performed.
- CCTV was performed on 6 residences of qualified applicants to determine if the lateral connection was in need of repair.

Work activities anticipated during the next reporting period:

- Due to funding constraints, this work has been returned to the City of Jackson. The City's limited personnel resources will constrain the number projects that will be undertaken in the next reporting period.

2.5 Program Management Activities

Work Activities for this period for this activity:

- Submitted Quarterly, Semi-Annual and Annual regulatory reports.
- Prepared and conducted monthly Consent Decree Progress Meetings with City Staff, EPA, MDEQ and DOJ.
- Provided overall program administration.
- Began development of the Savanna WWTP Impact Analysis Study to determine the impact of the departure of the WRUA to the City of Jackson's sewer system.
- Reviewed operations and maintenance reports for the City's Contract Operator on pump stations and treatment plants.

Work activities anticipated during the next reporting period

Because of limited available funding, Program Management activities will focus on four (4) initiatives:

- Continued Consent Decree Compliance Reporting;
- Continued Consent Decree Modification Negotiation;
- Completion of Long-Term and Short-Term Financial Plan development;
- Continued limited Consent Decree program administration to achieve the above Consent Decree initiatives.

3.0 Consent Decree Progress Schedule

A chart indicating the overall progress of Consent Decree required activities and milestones is shown on the following pages.

97348 - Jackson Compliance Schedule		Jackson Schedule Layout							07-Mar-2019
Activity ID	Activity Name	% Comp	OD	@ Comp Dur	RD	Start	Finish	Total Float	Comments
97348 - Jackson Compliance Schedule		38.66%	8331	7812	5110	10-Oct-2011A	27-Feb-2033	-425	
Phase Approach for WCTS Evaluation and Rehabilitaion		25.04%	8817	7273	5110	01-Apr-2013A	27-Feb-2033	-425	
West Bank Interceptor Work Plan		100%	320	442	0	01-Apr-2013A	17-Jun-2014A		
A1000	Develop Work Plan	100%	121	121	0	01-Apr-2013A	31-Jul-2013A		
MS1	Submit West Bank Interceptor Work Plan (8-1-13)	100%	0	0	0		31-Jul-2013A		5 months after date of entry 3-1-13
EPA1	EPA Review & Approval West Bank Interceptor Work Plan	100%	320	320	0	01-Aug-2013A	17-Jun-2014A		
West Bank Interceptor Evaluation Activities and Report		100%	1707	1798	0	01-Apr-2014A	04-Mar-2019	4685	
A1010	West Bank Interceptor Rehabilitation Plan (Summary)	100%	1230	926	0	01-Apr-2014A	13-Oct-2016A		
WBI Flow Monitoring		100%	730	730	0	01-Apr-2014A	31-Mar-2016A		
A1020	WBI Flow Monitoring	100%	730	730	0	01-Apr-2014A	31-Mar-2016A		
Inspection and Structural Evaluation of West Bank Interceptor		100%	1095	488	0	01-May-2014A	31-Aug-2015A		
A1030	Procure	100%	122	122	0	01-May-2014A	31-Aug-2014A		
A1300	Inspections	100%	365	365	0	01-Sep-2014A	31-Aug-2015A		
Flow Data and Structural Evaluation Analysis		100%	274	274	0	01-Mar-2015A	30-Nov-2015A		
A1040	Flow Data and Structural Evaluation Analysis	100%	274	274	0	01-Mar-2015A	30-Nov-2015A		
West Bank Interceptor Evaluation Report and Rehabilitation Plan		100%	1230	317	0	01-Dec-2015A	13-Oct-2016A		
A1050	Develop West Bank Interceptor Evaluation Report and Rehabilitation Plan	100%	121	121	0	01-Dec-2015A	31-Mar-2016A		
MS2	Submit West Bank Interceptor Rehabilitation Plan (4-17-16)	100%	0	0	0		31-Mar-2016A		22 months after EPA1
EPA2	EPA Review & Approval West Bank Interceptor Rehabilitation Plan	100%	195	195	0	01-Apr-2016A	13-Oct-2016A		
West Bank Interceptor Facilities Plan & SRF Application		0%	0	0	0	04-Mar-2019	04-Mar-2019	0	
A1060	West Bank Interceptor Facilities Plan & SRF Application (Summary)	0%	0	0	0	04-Mar-2019	04-Mar-2019	0	City Decided not to develop FP or seek SRF Funds
WBI Yearly Flow Monitoring			5024	5024	3957	01-Apr-2016A	01-Jan-2030	728	
A1750	WBI Flow Monitoring (Ongoing)	21.24%	5024	5024	3957	01-Apr-2016A	01-Jan-2030	728	
West Bank Interceptor Rehabilitation Design and Construction - Phase 1		48.28%	3656	4042	1891	10-Jun-2013A	03-Jul-2024	-719	
Project 1 - MHIT0052-IT0082 Rehab		100%	416	737	0	10-Jun-2013A	17-Jun-2015A		
A1070	FP Phase 3 Contract 1 Construction	100%	416	416	0	10-Jun-2013A	31-Jul-2014A		
A1080	FP Phase 3 Contract 2 Construction	100%	259	259	0	01-Oct-2014A	17-Jun-2015A		
Project 2 - MHIT0082-IT0098 Rehab		100%	233	233	0	11-Apr-2016A	30-Nov-2016A		
A1090	FP Phase 4 Construction	100%	233	233	0	11-Apr-2016A	30-Nov-2016A		
Project 3 - MHIT0098-IT0118 Rehab		100%	207	268	0	21-Nov-2016A	15-Aug-2017A		
A1100	FP Phase 5 Construction	100%	207	268	0	21-Nov-2016A	15-Aug-2017A		
Project 4 - MHIT0148-IT0171 Cleaning only		61.29%	1191	1646	461	01-Feb-2016A	03-Aug-2020	-719	
A1110	Design	100%	89	89	0	01-Feb-2016A	30-Apr-2016A		
A1120	Procure	0%	61	61	61	01-May-2019*	30-Jun-2019	-684	
A1130	Cleaning	0%	365	365	365	05-Aug-2019*	03-Aug-2020	-719	
Project 5 - MHIT0133-IT0148 Cleaning only		0%	334	334	334	04-Aug-2020	03-Jul-2021	377	
A1140	Design	0%	90	90	90	04-Aug-2020	01-Nov-2020	-719	
A1150	Procure	0%	122	122	122	02-Nov-2020	03-Mar-2021	377	
A1160	Cleaning	0%	122	122	122	04-Mar-2021	03-Jul-2021	377	
Project 6 - MHIT0118-IT0133 Rehab		0%	549	549	549	01-Feb-2021	03-Aug-2022	-719	
A1170	Design	0%	184	184	184	01-Feb-2021	03-Aug-2021	-719	
A1180	Procure	0%	120	120	120	04-Aug-2021	01-Dec-2021	-719	
A1190	Construction	0%	245	245	245	02-Dec-2021	03-Aug-2022	-719	
Project 7 - MHIT0035-IT0043 Rehab		0%	520	520	520	03-Mar-2022	04-Aug-2023	-719	
A1200	Design	0%	154	154	154	03-Mar-2022	03-Aug-2022	-719	
A1210	Procure	0%	121	121	121	04-Aug-2022	02-Dec-2022	-719	
A1220	Construction	0%	245	245	245	03-Dec-2022	04-Aug-2023	-719	
Project 8 - TP2-IT02, IT09-IT12, IT28-IT29 Cleaning only		0%	334	334	334	05-Aug-2023	03-Jul-2024	-719	

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Activity ID	Activity Name	% Comp	OD	@ Comp Dur	RD	Start	Finish	Total Float	Comments
A1230	Design	0%	90	90	90	05-Aug-2023	02-Nov-2023	-719	
A1240	Procure	0%	122	122	122	03-Nov-2023	03-Mar-2024	-719	
A1250	Cleaning	0%	122	122	122	04-Mar-2024	03-Jul-2024	-719	
West Bank Interceptor Activity Report - Phase 1		0%	274	274	274	04-Jul-2024	03-Apr-2025	2462	
A1361	Develop Report West Bank Interceptor Phase 1	0%	90	90	90	04-Jul-2024	01-Oct-2024	-719	
MS3	Submit Report West Bank Interceptor Phase 1 (10-13-22)	0%	0	0	0		01-Oct-2024*	-719	72 months after approval of EPA2
EPA3	EPA Review & Approval West Bank Interceptor	0%	184	184	184	02-Oct-2024	03-Apr-2025	2462	
West Bank Interceptor Design and Construction - Phase 2		0%	3257	3257	3257	01-Jul-2021	31-May-2030	227	
A1830	West Bank Interceptor Design & Construction - Phase 2	0%	2922	2922	2922	01-Jun-2022*	31-May-2030	227	
Project 9 - MH IT0021-IT0033 Rehab		0%	549	549	549	01-Jul-2021	31-Dec-2022	2935	
A1360	Design	0%	184	184	184	01-Jul-2021*	31-Dec-2021	2935	
A1370	Procure	0%	120	120	120	01-Jan-2022	30-Apr-2022	2935	
A1380	Construction	0%	245	245	245	01-May-2022	31-Dec-2022	2935	
Project 10 - MH TP02-IT0001 Rehab		0%	549	549	549	01-Jul-2022	31-Dec-2023	2570	
A1390	Design	0%	184	184	184	01-Jul-2022*	31-Dec-2022	2570	
A1400	Procure	0%	120	120	120	01-Jan-2023	30-Apr-2023	2570	
A1410	Construction	0%	245	245	245	01-May-2023	31-Dec-2023	2570	
West Bank Interceptor Activity Report - Phase 2		0%	272	272	272	01-Jun-2030	27-Feb-2031	306	
A1420	Develop Report West Bank Interceptor Phase 2	0%	90	90	90	01-Jun-2030	29-Aug-2030	227	
MS4	Submit West Bank Interceptor Phase 2 (4-13-2031)	0%	0	0	0		29-Aug-2030*	227	174 months after approval of EPA2
EPA4	EPA Review & Approval West Bank Interceptor Phase 2	0%	182	182	182	30-Aug-2030	27-Feb-2031	306	
Sewershed Prioritization Work Plan		100%	259	381	0	01-Jun-2013A	17-Jun-2014A		
A1350	Develop Sewershed Prioritization Work Plan	100%	121	121	0	01-Jun-2013A	30-Sep-2013A		
MS5	Submit Sewershed Prioritization Work Plan (10-1-13)	100%	0	0	0		30-Sep-2013A		7 months after date of entry 3-1-13
EPA5	EPA Review & Approval Sewershed Prioritization Work Plan	100%	259	259	0	01-Oct-2013A	17-Jun-2014A		
Sewershed Prioritization Activities and Report		52.24%	3149	3606	1504	01-Jun-2013A	16-Apr-2023	3181	
Sewershed Flow Monitoring		100%	1095	334	0	01-May-2014A	31-Mar-2015A		
A1440	Procure	100%	122	122	0	01-May-2014A	31-Aug-2014A		
A1450	Flow Monitoring	100%	211	211	0	01-Sep-2014A	31-Mar-2015A		
Sewershed Characterization		100%	182	182	0	01-Apr-2015A	30-Sep-2015A		
A1460	Characterization	100%	182	182	0	01-Apr-2015A	30-Sep-2015A		
WCTS Mapping		100%	1032	2009	0	01-Jun-2013A	30-Nov-2018A		
A1470	Field Data Collection / GIS Mapping	100%	1002	1002	0	01-Jun-2013A	28-Feb-2016A		
A1480	Field Verification	100%	609	609	0	01-Apr-2017A	30-Nov-2018A		
Hydraulic Modeling		93.65%	913	760	58	01-Apr-2017A	30-Apr-2019	-636	
A1490	Hydraulic Modeling	93.65%	913	760	58	01-Apr-2017A	30-Apr-2019	-636	
WCTS Capacity Assessment		100%	1871	1993	0	31-Oct-2017A	16-Apr-2023	-1780	
A1510	Capacity Assessment	100%	121	122	0	31-Oct-2017A	02-Mar-2018A		
A1500	Pump Stations Condition Assessment	0%	0	0	0	16-Apr-2023	16-Apr-2023	-1780	
Sewershed Prioritization Report		100%	184	402	0	01-Jan-2017A	07-Feb-2018A		
A1430	Develop Sewershed Prioritization Report	100%	58	47	0	01-Jan-2017A	17-Feb-2017A		
MS6	Submit Sewershed Prioritization Report (2-17-17)	100%	0	0	0		17-Feb-2017A		32 months after approval of EPA5
EPA6	EPA Review & Approval Sewershed Prioritization Report	100%	184	354	0	18-Feb-2017A	07-Feb-2018A		EPA Approval recieved on 2-7-18
Sewershed Evaluation Plan		35.72%	5772	7090	3710	01-Oct-2013A	27-Feb-2033	-425	
A1520	Develop Sewershed Evaluation Plan	100%	150	150	0	01-Oct-2013A	28-Feb-2014A		
MS7	Submit Sewershed Evaluation Plan (3-1-14)	100%	0	0	0		28-Feb-2014A		12 months after date of entry 3-1-13
EPA7	EPA Review & Approval Sewershed Evaluation Plan	100%	108	108	0	01-Mar-2014A	17-Jun-2014A		
Sewershed Group 1		0%	2616	2616	2616	02-Jan-2023	01-Mar-2033	659	

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Activity ID	Activity Name	% Comp	OD	@ Comp Dur	RD	Start	Finish	Total Float	Comments
WCTS Evaluation Sewer Group 1		0%	274	274	274	01-Mar-2023	29-Nov-2023	-2008	
A1530	Procure	0%	46	46	46	01-Mar-2023*	15-Apr-2023	-2008	
A1540	Evaluation of Sewershed Group 1	0%	228	228	228	16-Apr-2023	29-Nov-2023	-2008	
MS9	Complete Evaluation of Sewershed Group 1 (6-1-18)	0%	0	0	0		29-Nov-2023*	-2008	63 months from date of entry 3-1-13
Group 1 SSES Studies		0%	307	307	307	01-May-2023	02-Mar-2024	2859	
A1550	Procure	0%	76	76	76	01-May-2023*	15-Jul-2023	2859	
A1560	Group1 SSES Studies	0%	215	215	215	01-Aug-2023	02-Mar-2024	2859	Only Group 1, Contract 3 to proceed initially
Pre-Rehab Flow Monitoring		0%	242	242	242	02-Jan-2023	31-Aug-2023	3043	
A1570	Procure	0%	88	88	88	02-Jan-2023*	30-Mar-2023	3043	
A1580	FlowMonitoring	0%	109	109	109	15-May-2023	31-Aug-2023	3043	Only Group 1, Contract 3 to proceed initially
WCTS Evaluation Report/Rehabilitation Plan-Group 1		0%	273	273	273	30-Nov-2023	28-Aug-2024	-2008	
A1590	Develop WCTS Evaluation Report/Rehabilitation Plan-Group 1	0%	92	92	92	30-Nov-2023	29-Feb-2024	-2008	Only Group 1, Contract 3 to proceed initially
MS8	Submit WCTS Evaluation Report/Rehabilitation Plan-Group 1 (8-31-18)	0%	0	0	0		29-Feb-2024*	-2008	3 months from completion of MS9 ; Only Group 1, Contract 3 to proceed initially
EPA8	EPA Review & Approval WCTS Evaluation Report/Rehabilitation Plan-Group 1	0%	181	181	181	01-Mar-2024	28-Aug-2024	-2008	Only Group 1, Contract 3 to proceed initially
WCTS Rehabilitation Design and Construction Group 1		0%	1735	1735	1735	29-Aug-2024	30-May-2029	-2008	
A1600	Procure	0%	156	156	156	29-Aug-2024	31-Jan-2025	-2008	
A1610	Design	0%	730	730	730	01-Feb-2025	31-Jan-2027	-2008	
A1620	Bid	0%	120	120	120	01-Feb-2027	31-May-2027	-2008	
A1630	Construction	0%	730	730	730	01-Jun-2027	30-May-2029	-2008	
MS10	Complete WCTS Rehabilitation Design and Construction Group 1 (12-1-23)	0%	0	0	0		30-May-2029*	-2008	129 months from date of entry 3-1-13
WCTS Rehabilitation Activity Report (By Design Engineer) Group 1		0%	275	275	275	31-May-2029	01-Mar-2030	669	
A1640	Develop WCTS Rehabilitation Activity Report- Group 1	0%	91	91	91	31-May-2029	29-Aug-2029	-2008	
MS11	Submit WCTS Rehabilitation Activity Report- Group 1 (2-29-24)	0%	0	0	0		29-Aug-2029*	-2008	3 months from completion of MS10
EPA9	EPA Review & Approval WCTS Rehabilitation Activity Report- Group 1	0%	184	184	184	30-Aug-2029	01-Mar-2030	669	
Sewershed Group 2			2921	2921	2921	01-Mar-2025	27-Feb-2033	-425	
WCTS Evaluation - SSES, Etc. - Sewer Group 2		0%	640	640	640	01-Mar-2025	30-Nov-2026	-730	
A1650	Procure	0%	92	92	92	01-Mar-2025*	31-May-2025	-730	
A1660	Evaluation of Sewershed Group 2	0%	548	548	548	01-Jun-2025	30-Nov-2026	-730	
MS12	Complete Evaluation of Sewershed Group 2 (12-1-24)	0%	0	0	0		30-Nov-2026*	-730	141 months from date of entry 3-1-13
WCTS Evaluation Report/Rehabilitation Plan - Group 2		0%	274	274	274	01-Dec-2026	31-Aug-2027	-730	
A1670	Develop WCTS Evaluation Report/Rehabilitation Plan-Group 2	0%	90	90	90	01-Dec-2026	28-Feb-2027	-730	
MS13	Submit WCTS Evaluation Report/Rehabilitation Plan-Group 2 (2-28-25)	0%	0	0	0		28-Feb-2027*	-730	3 months from completion of MS12
EPA10	EPA Review & Approval WCTS Evaluation Report/Rehabilitation Plan-Group 2	0%	184	184	184	01-Mar-2027	31-Aug-2027	-730	
WCTS Rehabilitation Design and Construction Group 2		0%	1734	1734	1734	01-Sep-2027	30-May-2032	-730	
A1680	Procure	0%	154	154	154	01-Sep-2027	01-Feb-2028	-730	
A1690	Design	0%	730	730	730	02-Feb-2028	31-Jan-2030	-730	
A1700	Bid	0%	120	120	120	01-Feb-2030	31-May-2030	-730	
A1710	Construction	0%	730	730	730	01-Jun-2030	30-May-2032	-730	
MS14	Complete WCTS Rehabilitation Design and Construction Group 1 (6-1-30)	0%	0	0	0		30-May-2032*	-730	207 months from date of entry 3-1-13
WCTS Rehabilitation Activity Report (By Design Engineer) Group 2		0%	273	273	273	31-May-2032	27-Feb-2033	-425	
A1720	Develop WCTS Rehabilitation Activity Report- Group 2	0%	92	92	92	31-May-2032	30-Aug-2032	-730	
MS15	Submit WCTS Rehabilitation Activity Report- Group 2 (8-31-30)	0%	0	0	0		30-Aug-2032*	-730	3 months from completion of MS14
EPA11	EPA Review & Approval WCTS Rehabilitation Activity Report- Group 2	0%	181	181	181	31-Aug-2032	27-Feb-2033	-425	
Comprehensive Performance Evaluation (CPE) & Composite Correction Program (CCP)		41%	4140	4597	2403	01-Mar-2013A	30-Sep-2025	2282	
Comprehensive Performance Evaluation (CPE) of SSWWTF		100%	1521	781	0	01-Mar-2013A	21-Apr-2015A		
A1730	Comprehensive Performance Evaluation (CPE) of SSWWTF	100%	456	456	0	01-Mar-2013A	31-May-2014A		
MS16	Submit Comprehensive Performance Evaluation (CPE) of SSWWTF	100%	0	0	0		31-May-2014A		15 months from date of entry 3-1-13
EPA12	EPA Review & Approval Comprehensive Performance Evaluation (CPE) of SSWWTF	100%	324	324	0	01-Jun-2014A	21-Apr-2015A		

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Composite Correction Plan (CCP) of SSWWTF		100%	1678	942	0	01-Sep-2014A	31-Mar-2017A		
A1740	Comprehensive Performance Evaluation (CCP) of SSWWTF	100%	364	364	0	01-Sep-2014A	31-Aug-2015A		
MS17	Submit Comprehensive Performance Evaluation (CCP) of SSWWTF	100%	0	0	0		31-Aug-2015A		12 months after approval of EPA12
EPA13	EPA Review & Approval Comprehensive Performance Evaluation (CCP) of SSWWTF	100%	613	577	0	01-Sep-2015A	31-Mar-2017A		revision requested part of lower approval EPA14?
Savanna WWTP Facilities Plan & SRF Application		100%	92	514	0	01-May-2017A	27-Sep-2018A		
A1760	FP	100%	92	168	0	01-May-2017A	15-Oct-2017A		Final FP 10-15-17
A1770	SRF	100%	61	422	0	01-Aug-2017A	27-Sep-2018A		Final SRF 10-15-17; SRF Loan Application
Composite Correction Plan Revision and Resubmittal		100%	518	1119	0	01-Apr-2015A	24-Apr-2018A		
A1780	CCP Revision	100%	275	390	0	01-Apr-2015A	25-Apr-2016A		
MS18	Submit CCP Revision	100%	0	0	0		25-Apr-2016A		
EPA14	EPA Review & Approval CCP Revision	100%	181	728	0	26-Apr-2016A	24-Apr-2018A		
Corrective Actions - Types I & II		87.77%	417	205	51	01-Oct-2018A	23-Apr-2019	366	
A1800	Type I & II Corective Actions	93.76%	417	180	26	01-Oct-2018A	29-Mar-2019	391	
MS19	Complete Type I & II Corective Actions	0%	0	0	0		23-Apr-2019*	366	24 months after approval of EPA14
Corrective Actions - Type III		0%	1826	1826	1826	01-Oct-2020	30-Sep-2025	-891	
A1810	Type III Corective Actions	0%	1826	1826	1826	01-Oct-2020*	30-Sep-2025	-891	
MS20	Complete Type III Corective Actions	0%	0	0	0		30-Sep-2025*	-891	60 months after approval of EPA14
Work under MDEQ Orders Enforceable under this Consent Decree		100%	1341	2009	0	02-Jul-2012A	31-Dec-2017A		
SSWWTF - Remove Sludge From Storm Cells		100%	667	667	0	02-Jul-2012A	30-Apr-2014A		
A1820	SSWWTF - Remove Sludge From Storm Cells	100%	667	667	0	02-Jul-2012A	30-Apr-2014A		
MS21	Complete SSWWTF - Remove Sludge From Storm Cells	100%	0	0	0		30-Apr-2014A		Complaince 4-30-14
SSWWTF - Dispose of Sludge Removed From Storm Cells		100%	1341	1341	0	01-May-2014A	31-Dec-2017A		
A1840	SSWWTF - Dispose of Sludge Removed From Storm Cells	100%	1341	1340	0	01-May-2014A	31-Dec-2017A		
MS22	Complete SSWWTF - Dispose of Sludge Removed From Storm Cells	100%	0	0	0		31-Dec-2017A		Compliance 12-31-17
Presidential Hills NPDES Compliance		100%	439	439	0	18-Mar-2013A	31-May-2014A		
A1850	Presidential Hills NPDES Compliance	100%	439	439	0	18-Mar-2013A	31-May-2014A		
MS23	Complete Presidential Hills NPDES Compliance	100%	0	0	0		31-May-2014A		Compliance 5-31-14
Capacity, Management, Operations and Maintenance Programs (CMOM)		49%	8331	6901	4199	10-Oct-2011A	31-Aug-2030	486	
CMOM Training Program		100%	365	601	0	01-Sep-2013A	25-Apr-2015A		
A1860	Develop CMOM Training Program	100%	365	180	0	01-Sep-2013A	28-Feb-2014A		
MS24	Submit CMOM Training Program (3-1-14)	100%	0	0	0		28-Feb-2014A		12 months from date of entry 3-1-13
EPA15	EPA Review & Approval of CMOM Training Program	100%	55	55	0	01-Mar-2014A	25-Apr-2014A		
A1870	Implementation of CMOM Training Program (4-25-15)	100%	365	364	0	26-Apr-2014A	25-Apr-2015A		12 months after Approval of EPA15
CMOM Capacity Assurance Program (CAP)		71.63%	2859	3162	811	31-Aug-2017A	28-Apr-2026	-1827	
MS25.1	Submit CMOM CAP Interm (9-1-17)	100%	0	0	0		31-Aug-2017A		54 months from date of entry 3-1-13, Interm CAP submitted 8-31-17
EPA35	EPA Review & Approval of Interm CMOM CAP	100%	180	159	0	01-Sep-2017A	07-Feb-2018A		
A1880	Develop CMOM CAP	0%	266	266	266	08-Feb-2024*	30-Oct-2024	-2616	Tied to Hydraulic Modeling complete plus 30 days
MS25	Submit CMOM CAP Final (9-1-17)	0%	0	0	0		30-Oct-2024*	-2616	54 months from date of entry 3-1-13, Interm CAP submitted 8-31-17
EPA16	EPA Review & Approval of CMOM CAP	0%	180	180	180	31-Oct-2024	28-Apr-2025	-1827	
A1890	Implementation of CMOM CAP	0%	365	365	365	29-Apr-2025	28-Apr-2026*	-1827	12 months after Approval of EPA16
CMOM Sewer Overflow Response Plan		39.15%	6901	6901	4199	10-Oct-2011A	31-Aug-2030	486	
A1920	CMOM Sewer Overflow Response Plan	39.15%	6901	6901	4199	10-Oct-2011A	31-Aug-2030	486	ongoing for duration of Consent Decree
CMOM Interjurisdictional Agreement Program		100%	725	1275	0	01-Mar-2014A	26-Aug-2017A		
A1900	Develop CMOM Interjurisdictional Agreement Program	100%	365	364	0	01-Mar-2014A	28-Feb-2015A		
MS26	Submit CMOM Interjurisdictional Agreement Program (3-1-15)	100%	0	0	0		28-Feb-2015A		24 months from date of entry 3-1-13
EPA17	EPA Review & Approval of CMOM Interjurisdictional Agreement Program	100%	180	544	0	01-Mar-2015A	26-Aug-2016A		

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A1910	Implementation of CMOM Interjurisdictional Agreement Program (8-26-17)	100%	365	365	0	27-Aug-2016A	26-Aug-2017A		12 months after Approval of EPA17
CMOM Private Lateral Program		37.23%	4913	4913	3084	01-Mar-2014A	12-Aug-2027	-3652	
A1930	Develop CMOM Private Lateral Program	100%	365	365	0	01-Mar-2014A	28-Feb-2015A		
MS27	Submit CMOM Private Lateral Program (3-1-15)	100%	0	0	0		28-Feb-2015A		24 months from date of entry 3-1-13
EPA18	EPA Review & Approval of CMOM Private Lateral Program	100%	180	530	0	01-Mar-2015A	12-Aug-2016A		
A1940	Implementation of CMOM Private Lateral Program (8-12-17)	0%	365	4017	3084	13-Aug-2016A	12-Aug-2027*	-3652	12 months after Approval of EPA18. Implementation has not been started
CMOM Water Quality Monitoring Program		0%	1553	5027	3198	01-Mar-2014A	04-Dec-2027	-3287	
A1950	Develop CMOM Water Quality Monitoring Program	100%	365	365	0	01-Mar-2014A	28-Feb-2015A		
MS28	Submit CMOM Water Quality Monitoring Program (3-1-15)	100%	0	0	0		28-Feb-2015A		24 months from date of entry 3-1-13
EPA19	EPA Review & Approval of CMOM Water Quality Monitoring Program	100%	180	1009	0	01-Mar-2015A	04-Dec-2017A		Several Resubmittals
A1960	Implementation of CMOM Water Quality Monitoring Program (12-4-18)	0%	365	3652	3198	05-Dec-2017A	04-Dec-2027*	-3287	12 months after Approval of EPA19
CMOM Pump Station Operations Program		100%	1882	729	0	01-Jun-2013A	31-May-2015A		
A1970	Develop CMOM Pump Station Operations Program	100%	365	272	0	01-Jun-2013A	28-Feb-2014A		
MS29	Submit CMOM Pump Station Operations Program (3-1-14)	100%	0	0	0		28-Feb-2014A		12 months from date of entry 3-1-13
EPA20	EPA Review & Approval of CMOM Pump Station Operations Program	100%	180	108	0	01-Mar-2014A	17-Jun-2014A		
A1980	Implementation of CMOM Pump Station Operations Program (6-17-15)	100%	365	347	0	18-Jun-2014A	31-May-2015A		12 months after Approval of EPA20
CMOM Fats, Oils and Grease (FOG) Program		100%	1157	1736	0	01-Mar-2014A	01-Dec-2018A		
A1990	Develop CMOM Fats, Oils and Grease (FOG) Program	100%	365	365	0	01-Mar-2014A	28-Feb-2015A		
MS30	Submit CMOM Fats, Oils and Grease (FOG) Program (3-1-15)	100%	0	0	0		28-Feb-2015A		24 months from date of entry 3-1-13
EPA21	EPA Review & Approval of CMOM Fats, Oils and Grease (FOG) Program	100%	180	527	0	01-Mar-2015A	09-Aug-2016A		
A2000	Implementation of CMOM Fats, Oils and Grease (FOG) Program (8-9-17)	100%	365	467	0	21-Aug-2017A	01-Dec-2018A		12 months after Approval of EPA21. Implementation started by program manager
CMOM Pump Station Maintenance Program		100%	747	730	0	01-Jun-2013A	31-May-2015A		
A2010	Develop CMOM Pump Station Maintenance Program	100%	365	273	0	01-Jun-2013A	28-Feb-2014A		
MS31	Submit CMOM Pump Station Maintenance Program (3-1-14)	100%	0	0	0		28-Feb-2014A		12 months from date of entry 3-1-13
EPA22	EPA Review & Approval of CMOM Pump Station Maintenance Program	100%	180	109	0	01-Mar-2014A	17-Jun-2014A		
A2020	Implementation of CMOM Pump Station Maintenance Program (6-17-15)	100%	365	348	0	18-Jun-2014A	31-May-2015A		12 months after Approval of EPA22
CMOM Gravity Line Preventative Maintenance Program		72.8%	1055	2389	287	01-Jun-2013A	15-Dec-2019	-1333	
A2030	Develop CMOM Gravity Line Preventative Maintenance Program	100%	334	334	0	01-Jun-2013A	30-Apr-2014A		
MS32	Submit CMOM Gravity Line Preventative Maintenance Program (6-1-14)	100%	0	0	0		30-Apr-2014A		15 months from date of entry 3-1-13
EPA23	EPA Review & Approval of CMOM Gravity Line Preventative Maintenance Program	100%	180	356	0	01-May-2014A	21-Apr-2015A		
A2040	Implementation of CMOM Gravity Line Preventative Maintenance Program (4-21-16)	21.37%	365	1699	287	22-Apr-2015A	15-Dec-2019*	-1333	12 months after Approval of EPA23, Not fully Implemented, RFP's for Outside Contractors Q4 2017
CMOM WWTF Operation and Maintenance Program		100%	2340	1055	0	01-Jun-2013A	21-Apr-2016A		
A2050	Develop CMOM WWTF Operation and Maintenance Program	100%	334	334	0	01-Jun-2013A	30-Apr-2014A		
MS33	Submit CMOM WWTF Operation and Maintenance Program (6-1-14)	100%	0	0	0		30-Apr-2014A		15 months from date of entry 3-1-13
EPA24	EPA Review & Approval of CMOM WWTF Operation and Maintenance Program	100%	180	356	0	01-May-2014A	21-Apr-2015A		
A2060	Implementation of CMOM WWTF Operation and Maintenance Program (4-21-16)	100%	365	365	0	22-Apr-2015A	21-Apr-2016A		12 months after Approval of EPA24
		95.38%	2209	2204	102	01-Jun-2013A	13-Jun-2019	0	
A2070	Develop Financing and Cost Analysis Program	100%	365	456	0	01-Jun-2013A	31-Aug-2014A		
MS34	Submit Financing and Cost Analysis Program (9-1-14)	100%	0	0	0		31-Aug-2014A		18 months from date of entry 3-1-13, Resubmittal required by 2-8-18
EPA25	EPA Review & Approval of Financing and Cost Analysis Program	100%	180	1065	0	01-Sep-2014A	31-Jul-2017A		EPA held for 3 years. Gave option to review again 6 months and resubmit
A2071	Redevelop Financing and Cost Analysis Program (2-8-18)	100%	180	178	0	13-Aug-2017A	07-Feb-2018A		Reviewed by city and is reflective of current practices, no further revisions.
MS34.1	Resubmit Financing and Cost Analysis Program (2-8-18)	100%	0	0	0		07-Feb-2018A		
EPA25.1	EPA Review & Approval of Financing and Cost Analysis Program Resubmittal	100%	180	33	0	08-Feb-2018A	13-Mar-2018A		
A2080	Implementation of Financing and Cost Analysis Program (6-13-19)	77.58%	457	457	102	14-Mar-2018A	13-Jun-2019*	0	15 months after approval of EPA25.1
Supplemental Environmental Project (SEP)		77%	2587	2587	577	01-Sep-2013A	30-Sep-2020	410	
Escrow Deposit		85.65%	2558	2558	367	01-Sep-2013A	01-Sep-2020	4137	
A6000	City to make deposit into SEP Escrow Account (9-1-13)	100%	1	0	0	01-Sep-2013A	01-Sep-2013A		$175K

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Activity ID	Activity Name	% Comp	OD	@ Comp Dur	RD	Start	Finish	Total Float	Comments
A6010	City to make deposit into SEP EscrowAccount (9-1-14)	100%	1	1	0	01-Sep-2014A	01-Sep-2014A		$100K
A6020	City to make deposit into SEP EscrowAccount (9-1-15)	100%	1	1	0	01-Sep-2015A	01-Sep-2015A		$100K
A6030	City to make deposit into SEP EscrowAccount (9-1-16)	100%	1	1	0	01-Sep-2016A	01-Sep-2016A		$100K
A6040	City to make deposit into SEP EscrowAccount (9-1-17)	100%	1	1	0	01-Sep-2017A	01-Sep-2017A		$100K
A6050	City to make deposit into SEP EscrowAccount (9-1-18)	100%	1	1	0	01-Sep-2018A	01-Sep-2018A		$100K
A6060	City to make deposit into SEP EscrowAccount (9-1-19)	0%	1	1	1	01-Sep-2019	01-Sep-2019*	0	$100K
A6070	City to make deposit into SEP EscrowAccount (9-1-20)	0%	1	1	1	01-Sep-2020	01-Sep-2020*	0	$100K
Semi Annual Report		46.98%	745	2586	395	02-Sep-2013A	30-Sep-2020	4108	
A6090	Executed EscrowAgreement & EPA Documentation of Deposit 2013	100%	5	28	0	02-Sep-2013A	30-Sep-2013A		Within 30 days of Deposit
A6100	EPA Documentation of Deposit 2014	100%	5	28	0	02-Sep-2014A	30-Sep-2014A		Within 30 days of Deposit
A6110	EPA Documentation of Deposit 2015	100%	5	28	0	02-Sep-2015A	30-Sep-2015A		Within 30 days of Deposit
A6120	EPA Documentation of Deposit 2016	100%	5	28	0	02-Sep-2016A	30-Sep-2016A		Within 30 days of Deposit
A6130	EPA Documentation of Deposit 2017	100%	5	28	0	02-Sep-2017A	30-Sep-2017A		Within 30 days of Deposit
A6140	EPA Documentation of Deposit 2018	100%	5	28	0	02-Sep-2018A	30-Sep-2018A		Within 30 days of Deposit
A6150	EPA Documentation of Deposit 2019	0%	29	29	29	02-Sep-2019	30-Sep-2019	4474	Within 30 days of Deposit
A6160	EPA Documentation of Deposit 2020	0%	29	29	29	02-Sep-2020	30-Sep-2020	4108	Within 30 days of Deposit
Final Completion Report		0%	30	30	30	04-Mar-2019	02-Apr-2019	4655	
A6080	SEP Completion Report	0%	30	30	30	04-Mar-2019	02-Apr-2019	4655	Submit 30 days after SEP Projects Complete
Reporting Requirements		14.19%	5174	5538	4440	01-Mar-2016A	29-Apr-2031	245	
Quarterly Reports		13.63%	4931	5051	4259	01-Jan-2017A	30-Oct-2030	426	
Quarterly Report 16		100%	90	128	0	01-Jan-2017A	08-May-2017A		
Quarterly Report 17		100%	156	122	0	01-Apr-2017A	31-Jul-2017A		
Quarterly Report 18		100%	122	122	0	01-Jul-2017A	30-Oct-2017A		
Quarterly Report 19		100%	122	122	0	01-Oct-2017A	30-Jan-2018A		
Quarterly Report 20		100%	120	120	0	01-Jan-2018A	30-Apr-2018A		
Quarterly Report 21		100%	121	121	0	01-Apr-2018A	30-Jul-2018A		
Quarterly Report 22		100%	122	122	0	01-Jul-2018A	30-Oct-2018A		
Quarterly Report 23		100%	122	122	0	01-Oct-2018A	30-Jan-2019A		
Quarterly Report 24		51.67%	120	120	58	01-Jan-2019A	30-Apr-2019	0	
A2330	Develop Report 24	68.89%	90	90	28	01-Jan-2019A	31-Mar-2019	0	
A2340	Due to City Report 24	0%	0	0	0		23-Apr-2019*	0	
A2350	Due to EPA Report 24	0%	0	0	0		30-Apr-2019*	0	
Quarterly Report 25		0%	121	121	121	01-Apr-2019	30-Jul-2019	0	
A2360	Develop Report 25	0%	91	91	91	01-Apr-2019*	30-Jun-2019	0	
A2370	Due to City Report 25	0%	0	0	0		23-Jul-2019*	0	
A2380	Due to EPA Report 25	0%	0	0	0		30-Jul-2019*	0	
Quarterly Report 26		0%	122	122	122	01-Jul-2019	30-Oct-2019	0	
A2390	Develop Report 26	0%	92	92	92	01-Jul-2019*	30-Sep-2019	0	
A2400	Due to City Report 26	0%	0	0	0		23-Oct-2019*	0	
A2410	Due to EPA Report 26	0%	0	0	0		30-Oct-2019*	0	
Quarterly Report 27		0%	122	122	122	01-Oct-2019	30-Jan-2020	0	
A2420	Develop Report 27	0%	92	92	92	01-Oct-2019*	31-Dec-2019	0	
A2430	Due to City Report 27	0%	0	0	0		23-Jan-2020*	0	
A2440	Due to EPA Report 27	0%	0	0	0		30-Jan-2020*	0	
Quarterly Report 28		0%	121	121	121	01-Jan-2020	30-Apr-2020	0	
Quarterly Report 29		0%	121	121	121	01-Apr-2020	30-Jul-2020	0	
Quarterly Report 30		0%	122	122	122	01-Jul-2020	30-Oct-2020	0	
Quarterly Report 31		0%	122	122	122	01-Oct-2020	30-Jan-2021	0	
Quarterly Report 32		0%	120	120	120	01-Jan-2021	30-Apr-2021	0	

TASK filter: All Activities
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Activity ID	Activity Name	% Comp	OD	@ Comp Dur		Start	Finish	Total Float	Comments
Quarterly Report 33		0%	121	121	121	01-Apr-2021	30-Jul-2021	0	
Quarterly Report 34		0%	122	122	122	01-Jul-2021	29-Oct-2021	0	
Quarterly Report 35		0%	122	122	122	01-Oct-2021	28-Jan-2022	0	
Quarterly Report 36		0%	120	120	120	01-Jan-2022	30-Apr-2022	0	
Quarterly Report 37		0%	121	121	121	01-Apr-2022	30-Jul-2022	0	
Quarterly Report 38		0%	122	122	122	01-Jul-2022	28-Oct-2022	0	
Quarterly Report 39		0%	122	122	122	01-Oct-2022	30-Jan-2023	0	
Quarterly Report 40		0%	120	120	120	01-Jan-2023	30-Apr-2023	0	
Quarterly Report 41		0%	121	121	121	01-Apr-2023	30-Jul-2023	0	
Quarterly Report 42		0%	122	122	122	01-Jul-2023	30-Oct-2023	0	
Quarterly Report 43		0%	122	122	122	01-Oct-2023	30-Jan-2024	0	
Quarterly Report 44		0%	121	121	121	01-Jan-2024	30-Apr-2024	0	
Quarterly Report 45		0%	121	121	121	01-Apr-2024	30-Jul-2024	0	
Quarterly Report 46		0%	122	122	122	01-Jul-2024	30-Oct-2024	0	
Quarterly Report 47		0%	122	122	122	01-Oct-2024	30-Jan-2025	0	
Quarterly Report 48		0%	120	120	120	01-Jan-2025	30-Apr-2025	0	
Quarterly Report 49		0%	121	121	121	01-Apr-2025	30-Jul-2025	0	
Quarterly Report 50		0%	122	122	122	01-Jul-2025	30-Oct-2025	0	
Quarterly Report 51		0%	122	122	122	01-Oct-2025	30-Jan-2026	0	
Quarterly Report 52		0%	120	120	120	01-Jan-2026	30-Apr-2026	0	
Quarterly Report 53		0%	121	121	121	01-Apr-2026	30-Jul-2026	0	
Quarterly Report 54		0%	122	122	122	01-Jul-2026	30-Oct-2026	0	
Quarterly Report 55		0%	122	122	122	01-Oct-2026	30-Jan-2027	0	
Quarterly Report 56		0%	120	120	120	01-Jan-2027	30-Apr-2027	0	
Quarterly Report 57		0%	121	121	121	01-Apr-2027	30-Jul-2027	0	
Quarterly Report 58		0%	122	122	122	01-Jul-2027	30-Oct-2027	0	
Quarterly Report 59		0%	122	122	122	01-Oct-2027	30-Jan-2028	0	
Quarterly Report 60		0%	121	121	121	01-Jan-2028	30-Apr-2028	0	
Quarterly Report 61		0%	121	121	121	01-Apr-2028	30-Jul-2028	0	
Quarterly Report 62		0%	122	122	122	01-Jul-2028	30-Oct-2028	0	
Quarterly Report 63		0%	122	122	122	01-Oct-2028	30-Jan-2029	0	
Quarterly Report 64		0%	120	120	120	01-Jan-2029	30-Apr-2029	0	
Quarterly Report 65		0%	121	121	121	01-Apr-2029	30-Jul-2029	0	
Quarterly Report 66		0%	122	122	122	01-Jul-2029	30-Oct-2029	0	
Quarterly Report 67		0%	122	122	122	01-Oct-2029	30-Jan-2030	0	
Quarterly Report 68		0%	120	120	120	01-Jan-2030	30-Apr-2030	0	
Quarterly Report 69		0%	121	121	121	01-Apr-2030	30-Jul-2030	0	
Quarterly Report 70		0%	122	122	122	01-Jul-2030	30-Oct-2030	0	
Semi-Annual Reports		**15.3%**	**4993**	**5143**	**4229**	**01-Sep-2016A**	**30-Sep-2030**	**456**	
Semi Annual Report 8		100%	4990	230	0	01-Sep-2016A	18-Apr-2017A		
Semi Annual Report 9		100%	4321	245	0	04-Mar-2017A	31-Oct-2017A		
Semi Annual Report 10		100%	182	206	0	01-Sep-2017A	04-Mar-2018A		
Semi Annual Report 11		100%	187	187	0	28-Mar-2018A	30-Sep-2018A		
Semi Annual Report 12		87.2%	211	211	27	01-Sep-2018A	30-Mar-2019	0	
A3860	Develop Report 12	93.92%	181	195	11	01-Sep-2018A	14-Mar-2019	0	
A3870	Due to City Report 12	0%	0	0	0		15-Mar-2019*	0	
A3880	Due to EPA Report 12	0%	0	0	0		30-Mar-2019*	0	
Semi Annual Report 13		0%	211	214	211	01-Mar-2019A	30-Sep-2019		
A3890	Develop Report 13	0%	181	196	193	01-Mar-2019A	12-Sep-2019	0	
A3900	Due to City Report 13	0%	0	0	0		13-Sep-2019*	0	
A3910	Due to EPA Report 13	0%	0	0	0		30-Sep-2019*	0	
Semi Annual Report 14		0%	212	212	212	01-Sep-2019	30-Mar-2020	0	

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Activity ID	Activity Name	% Comp	OD	@ Comp Dur	RD	Start	Finish	Total Float	Comments
A3920	Develop Report 14	0%	194	194	194	01-Sep-2019*	12-Mar-2020	0	
A3930	Due to City Report 14	0%	0	0	0		13-Mar-2020*	0	
A3940	Due to EPA Report 14	0%	0	0	0		30-Mar-2020*	0	
Semi Annual Report 15		0%	214	214	214	01-Mar-2020	30-Sep-2020	0	
Semi Annual Report 16		0%	211	211	211	01-Sep-2020	30-Mar-2021	0	
Semi Annual Report 17		0%	214	214	214	01-Mar-2021	30-Sep-2021	0	
Semi Annual Report 18		0%	211	211	211	01-Sep-2021	30-Mar-2022	0	
Semi Annual Report 19		0%	214	214	214	01-Mar-2022	30-Sep-2022	0	
Semi Annual Report 20		0%	211	211	211	01-Sep-2022	30-Mar-2023	0	
Semi Annual Report 21		0%	214	214	214	01-Mar-2023	30-Sep-2023	0	
Semi Annual Report 22		0%	212	212	212	01-Sep-2023	30-Mar-2024	0	
Semi Annual Report 23		0%	214	214	214	01-Mar-2024	30-Sep-2024	0	
Semi Annual Report 24		0%	211	211	211	01-Sep-2024	30-Mar-2025	0	
Semi Annual Report 25		0%	214	214	214	01-Mar-2025	30-Sep-2025	0	
Semi Annual Report 26		0%	211	211	211	01-Sep-2025	30-Mar-2026	0	
Semi Annual Report 27		0%	214	214	214	01-Mar-2026	30-Sep-2026	0	
Semi Annual Report 28		0%	211	211	211	01-Sep-2026	30-Mar-2027	0	
Semi Annual Report 29		0%	214	214	214	01-Mar-2027	30-Sep-2027	0	
Semi Annual Report 30		0%	212	212	212	01-Sep-2027	30-Mar-2028	0	
Semi Annual Report 31		0%	214	214	214	01-Mar-2028	30-Sep-2028	0	
Semi Annual Report 32		0%	211	211	211	01-Sep-2028	30-Mar-2029	0	
Semi Annual Report 33		0%	214	214	214	01-Mar-2029	30-Sep-2029	0	
Semi Annual Report 34		0%	211	211	211	01-Sep-2029	30-Mar-2030	0	
Semi Annual Report 35		0%	214	214	214	01-Mar-2030	30-Sep-2030	0	
Annual Reports		14.19%	5174	5538	4440	01-Mar-2016A	29-Apr-2031	245	
Annual Report 4			5174	428	0	01-Mar-2016A	02-May-2017A		
Annual Report 5		100%	4618	425	0	01-Mar-2017A	28-Apr-2018A		
Annual Report 6		85.57%	395	395	57	31-Mar-2018A	29-Apr-2019	0	
A4640	Develop Report 6	88.36%	335	377	39	31-Mar-2018A	11-Apr-2019	0	
A4650	Due to City Report 6	0%	0	0	0		12-Apr-2019*	0	
A4660	Due to EPA Report 6	0%	0	0	0		29-Apr-2019*	0	
Annual Report 7		0%	425	425	425	04-Mar-2019	29-Apr-2020	0	
A4670	Develop Report 7	0%	363	363	363	04-Mar-2019*	29-Feb-2020	0	
A4680	Due to City Report 7	0%	0	0	0		22-Apr-2020*	0	
A4690	Due to EPA Report 7	0%	0	0	0		29-Apr-2020*	0	
Annual Report 8		0%	425	425	425	01-Mar-2020	29-Apr-2021	0	
Annual Report 9		0%	425	425	425	01-Mar-2021	29-Apr-2022	0	
Annual Report 10		0%	425	425	425	01-Mar-2022	29-Apr-2023	0	
Annual Report 11		0%	426	426	426	01-Mar-2023	29-Apr-2024	0	
Annual Report 12		0%	425	425	425	01-Mar-2024	29-Apr-2025	0	
Annual Report 13		0%	425	425	425	01-Mar-2025	29-Apr-2026	0	
Annual Report 14		0%	425	425	425	01-Mar-2026	29-Apr-2027	0	
Annual Report 15		0%	426	426	426	01-Mar-2027	29-Apr-2028	0	
Annual Report 16		0%	425	425	425	01-Mar-2028	29-Apr-2029	0	
Annual Report 17		0%	425	425	425	01-Mar-2029	29-Apr-2030	0	
Annual Report 18		0%	425	425	425	01-Mar-2030	29-Apr-2031	0	

TASK filter: All Activities
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Appendix A

West Bank Interceptor
Flow Monitor Summary Data

SECTION FIVE – SUMMARY September 2018

This section contains a table that summarizes key aspects of the data collected at each flow monitoring location for this month.

Overview: During the past month the following rainfall totals were recorded: RG 1 – 8.73 inches, RG 2 – 5.82 inches, RG 3 – 5.27 inches and RG 4 – 6.71 inches. WBI-29 was down for 8 days due to the fact that the sensors were disconnected by a contractor at the Savanna Street WWTP.

Sitename	MH ID	Diameter (in)	Average Daily Flow (MGD)	Maximum Daily Flow (MGD)	Monthly Total Flow (mg)	Peak Depth (in)
WBI 1	IT0171	48	4.38	6.11	131.53	91
WBI 2	PL0544	15	Removed			
WBI 3	IT0156	48	5.19	7.36	155.67	104
WBI 4	IT0140	54	7.19	10.49	215.54	118
WBI 5	PL0028	36	0.65	1.07	19.58	107
WBI 5A	PL0167	30	1.58	2.91	47.48	119
WBI 5B	PL0079	30	0.35	0.80	10.55	97
WBI 6	HM0606	48	2.94	3.66	88.04	113
WBI 7	IT0123	48	12.28	18.30	366.26	98
WBI 8	IT0123	12	Removed			
WBI 9	HM0100A	11	0.07	0.14	1.94	4
WBI 10	EA0002	17	0.45	0.86	13.62	56
WBI 12	IT0085	54	14.41	24.60	432.21	140
WBI 13	EU0068	30	2.21	4.13	66.14	155
WBI 14	BH0221	30	1.11	1.43	33.26	9
WBI 15	BH0138	27	0.55	0.85	16.43	9
WBI 16	BH0074T	12	0.05	0.10	1.39	10
WBI 17	BH0074A	15	0.62	0.85	18.44	5
WBI 18	IT0055	66	20.65	32.87	619.38	121
WBI 19	IT0047	15	Removed			
WBI 20	IT0038	66	22.39	34.49	671.65	134
WBI 21	TN4131	24	0.40	0.76	12.09	11
WBI 22	TN4017	54	2.18	6.10	65.24	78
WBI 23	TN4006	11	Removed			
WBI 24	TN40006	48	3.34	5.51	100.10	28
WBI 25	LY0008	48	3.46	6.46	103.69	51
WBI 25 A	LY0039	48	0.23	0.95	6.84	13
WBI 26	IT0019	96	35.16	55.15	1054.66	185
WBI 27	TM0007A	24	0.57	1.13	17.15	18
WBI 28	HC0005A	37	0.71	1.08	21.19	16
WBI 29	IT0001	102	**40.40**	**61.90**	**844.57**	**238**
CY 4	CY0280	42	2.64	5.95	79.32	31
HM 1	HM0632	24	0.90	1.53	26.94	127
TR 1	TR0050	42	1.43	2.66	43.02	19

SECTION FIVE – SUMMARY October 2018

This section contains a table that summarizes key aspects of the data collected at each flow monitoring location for this month.

Overview: During the past month the following rainfall totals were recorded: RG 1 – 0.84 inches, RG 2 – 0.88 inches, RG 3 – 0.82 inches and RG 4 – 0.93 inches.

Sitename	MH ID	Diameter (in)	Average Daily Flow (MGD)	Maximum Daily Flow (MGD)	Monthly Total Flow (mg)	Peak Depth (in)
WBI 1	IT0171	48	4.18	5.43	129.65	37
WBI 2	PL0544	15	Removed			
WBI 3	IT0156	48	4.99	6.52	154.56	29
WBI 4	IT0140	54	6.62	8.48	205.28	37
WBI 5	PL0028	36	0.57	0.70	17.58	21
WBI 5A	PL0167	30	1.40	1.72	43.32	20
WBI 5B	PL0079	30	0.24	0.28	7.33	15
WBI 6	HM0606	48	2.96	3.57	91.71	33
WBI 7	IT0123	48	11.15	13.29	345.68	34
WBI 8	IT0123	12	Removed			
WBI 9	HM0100A	11	0.05	0.07	1.57	2
WBI 10	EA0002	17	0.41	0.54	12.63	11
WBI 12	IT0085	54	12.51	14.50	387.86	37
WBI 13	EU0068	30	1.54	1.80	47.74	16
WBI 14	BH0221	30	1.15	1.36	35.57	6
WBI 15	BH0138	27	0.54	0.68	16.83	6
WBI 16	BH0074T	12	0.05	0.14	1.52	5
WBI 17	BH0074A	15	0.66	0.80	20.39	5
WBI 18	IT0055	66	18.02	20.60	558.65	48
WBI 19	IT0047	15	Removed			
WBI 20	IT0038	66	19.28	21.96	597.58	59
WBI 21	TN4131	24	0.34	0.56	10.66	9
WBI 22	TN4017	54	1.49	2.39	46.13	17
WBI 23	TN4006	11	Removed			
WBI 24	TN40006	48	2.84	4.60	88.11	19
WBI 25	LY0008	48	2.74	5.20	84.78	21
WBI 25 A	LY0039	48	0.16	0.28	4.81	5
WBI 26	IT0019	96	28.17	37.18	873.28	54
WBI 27	TM0007A	24	0.45	0.56	14.02	13
WBI 28	HC0005A	37	0.72	0.91	22.37	6
WBI 29	IT0001	102	30.98	41.46	960.05	121
CY 4	CY0280	42	1.71	2.57	53.08	17
HM 1	HM0632	24	0.69	0.84	21.32	15
TR 1	TR0050	42	1.28	1.56	39.65	13

SECTION FIVE – SUMMARY November 2018

This section contains a table that summarizes key aspects of the data collected at each flow monitoring location for this month.

Overview: During the past month the following rainfall totals were recorded: RG 1 – 9.89 inches, RG 2 – 8.38 inches, RG 3 – 7.41 inches and RG 4 – 7.45 inches.

Sitename	MH ID	Diameter (in)	Average Daily Flow (MGD)	Maximum Daily Flow (MGD)	Monthly Total Flow (mg)	Peak Depth (in)
WBI 1	IT0171	48	6.50	7.94	195.13	90
WBI 2	PL0544	15	Removed			
WBI 3	IT0156	48	8.37	10.31	251.56	104
WBI 4	IT0140	54	10.95	13.19	328.92	120
WBI 5	PL0028	36	0.83	1.34	25.03	107
WBI 5A	PL0167	30	1.52	2.30	45.51	117
WBI 5B	PL0079	30	0.40	0.71	12.00	96
WBI 6	HM0606	48	3.77	5.14	113.39	112
WBI 7	IT0123	48	17.20	20.90	516.75	102
WBI 8	IT0123	12	Removed			
WBI 9	HM0100A	11	0.06	0.22	1.83	5
WBI 10	EA0002	17	0.52	1.07	15.64	63
WBI 12	IT0085	54	18.79	23.47	564.19	156
WBI 13	EU0068	30	2.26	3.19	67.96	169
WBI 14	BH0221	30	1.21	2.90	36.44	12
WBI 15	BH0138	27	0.60	0.87	17.92	9
WBI 16	BH0074T	12	0.09	0.38	2.72	79
WBI 17	BH0074A	15	0.71	0.80	21.38	97
WBI 18	IT0055	66	25.30	34.91	759.96	173
WBI 19	IT0047	15	Removed			
WBI 20	IT0038	66	26.21	34.06	787.25	194
WBI 21	TN4131	24	0.43	1.22	12.87	11
WBI 22	TN4017	54	2.50	5.21	75.10	152
WBI 23	TN4006	11	Removed			
WBI 24	TN40006	48	3.84	7.86	115.29	79
WBI 25	LY0008	48	4.44	10.24	133.24	167
WBI 25 A	LY0039	48	0.40	4.96	12.06	51
WBI 26	IT0019	96	40.07	66.25	1203.77	244
WBI 27	TM0007A	24	0.53	1.11	15.76	19
WBI 28	HC0005A	37	1.05	3.34	31.60	82
WBI 29	IT0001	102	44.64	73.79	1341.07	241
CY 4	CY0280	42	2.52	10.21	75.68	63
HM 1	HM0632	24	1.26	2.08	37.73	121
TR 1	TR0050	42	1.57	3.19	47.06	20

SECTION FIVE – SUMMARY December 2018

This section contains a table that summarizes key aspects of the data collected at each flow monitoring location for this month.

Overview: During the past month the following rainfall totals were recorded: RG 1 – 7.34 inches, RG 2 – 7.88 inches, RG 3 – 7.15 inches and RG 4 – 8.26 inches.

Sitename	MH ID	Diameter (in)	Average Daily Flow (MGD)	Maximum Daily Flow (MGD)	Monthly Total Flow (mg)	Peak Depth (in)
WBI 1	IT0171	48	6.20	7.65	192.19	107
WBI 2	PL0544	15	Removed			
WBI 3	IT0156	48	7.91	10.29	245.29	106
WBI 4	IT0140	54	11.10	15.17	344.15	119
WBI 5	PL0028	36	0.85	1.24	26.18	107
WBI 5A	PL0167	30	1.36	2.34	42.02	114
WBI 5B	PL0079	30	0.50	1.08	15.42	96
WBI 6	HM0606	48	4.35	5.94	134.73	112
WBI 7	IT0123	48	17.73	23.16	549.45	100
WBI 8	IT0123	12	Removed			
WBI 9	HM0100A	11	0.07	0.17	2.14	6
WBI 10	EA0002	17	0.47	1.03	14.42	55
WBI 12	IT0085	54	19.29	25.65	597.82	151
WBI 13	EU0068	30	2.16	4.06	66.86	158
WBI 14	BH0221	30	1.40	2.59	43.35	12
WBI 15	BH0138	27	0.76	1.77	23.49	11
WBI 16	BH0074T	12	0.11	0.45	3.51	72
WBI 17	BH0074A	15	0.82	1.02	25.34	90
WBI 18	IT0055	66	26.05	35.68	807.52	168
WBI 19	IT0047	15	Removed			
WBI 20	IT0038	66	27.39	37.89	848.94	201
WBI 21	TN4131	24	0.44	1.24	13.74	15
WBI 22	TN4017	54	2.13	4.11	66.09	20
WBI 23	TN4006	11	Removed			
WBI 24	TN40006	48	5.63	13.47	174.66	90
WBI 25	LY0008	48	5.40	11.35	167.51	178
WBI 25 A	LY0039	48	0.44	4.67	13.49	71
WBI 26	IT0019	96	44.49	76.17	1379.29	244
WBI 27	TM0007A	24	0.74	2.13	22.83	28
WBI 28	HC0005A	37	1.15	2.29	35.72	68
WBI 29	IT0001	102	49.92	87.04	1547.55	241
CY 4	CY0280	42	3.44	11.30	106.55	93
HM 1	HM0632	24	1.35	1.97	41.71	119
TR 1	TR0050	42	1.90	4.45	58.87	27

SECTION FIVE – SUMMARY January 2019

This section contains a table that summarizes key aspects of the data collected at each flow monitoring location for this month.

Overview: During the past month the following rainfall totals were recorded: RG 1 – 6.60 inches, RG 2 – 6.52 inches, RG 3 – 5.91 inches and RG 4 – 6.88 inches. Over half of these totals occurred on January 2 and 3 and resulted in excessive surcharging at almost every monitoring point.

Sitename	MH ID	Diameter (in)	Average Daily Flow (MGD)	Maximum Daily Flow (MGD)	Monthly Total Flow (mg)	Peak Depth (in)
WBI 1	IT0171	48	6.52	7.83	201.96	101
WBI 2	PL0544	15	Removed			
WBI 3	IT0156	48	8.40	9.38	260.33	111
WBI 4	IT0140	54	11.58	13.84	359.02	135
WBI 5	PL0028	36	0.98	1.29	30.24	121
WBI 5A	PL0167	30	1.38	1.79	42.72	103
WBI 5B	PL0079	30	0.53	0.76	16.41	101
WBI 6	HM0606	48	4.70	6.15	145.80	140
WBI 7	IT0123	48	18.92	22.43	586.66	154
WBI 8	IT0123	12	Removed			
WBI 9	HM0100A	11	0.07	0.20	2.29	3
WBI 10	EA0002	17	0.61	0.97	18.94	85
WBI 12	IT0085	54	20.48	24.33	634.79	205
WBI 13	EU0068	30	2.91	4.14	90.13	166
WBI 14	BH0221	30	1.36	2.22	42.29	17
WBI 15	BH0138	27	0.85	2.04	26.45	16
WBI 16	BH0074T	12	0.14	0.60	4.21	95
WBI 17	BH0074A	15	1.15	2.23	35.57	113
WBI 18	IT0055	66	28.78	32.34	892.15	196
WBI 19	IT0047	15	Removed			
WBI 20	IT0038	66	29.99	33.56	929.73	222
WBI 21	TN4131	24	0.83	2.95	25.83	33
WBI 22	TN4017	54	2.79	7.85	86.38	38
WBI 23	TN4006	11	Removed			
WBI 24	TN40006	48	7.16	11.82	221.81	109
WBI 25	LY0008	48	7.42	16.02	230.07	233
WBI 25 A	LY0039	48	2.07	9.01	64.07	120
WBI 26	IT0019	96	83.73	67.82	1607.95	244
WBI 27	TM0007A	24	0.79	2.46	24.52	37
WBI 28	HC0005A	37	1.79	3.28	55.32	155
WBI 29	IT0001	102	56.79	73.01	1760.50	241
CY 4	CY0280	42	3.63	11.83	112.43	113
HM 1	HM0632	24	1.48	1.85	45.78	135
TR 1	TR0050	42	2.34	7.72	72.53	24

SECTION FIVE – SUMMARY February 2019

This section contains a table that summarizes key aspects of the data collected at each flow monitoring location for this month.

Overview: During the past month the following rainfall totals were recorded: RG 1 – 4.64 inches, RG 2 – 3.53 inches, RG 3 – 1.88 inches and RG 4 – 7.16 inches. Over half of these totals occurred on January 2 and 3 and resulted in excessive surcharging at almost every monitoring point.

Sitename	MH ID	Diameter (in)	Average Daily Flow (MGD)	Maximum Daily Flow (MGD)	Monthly Total Flow (mg)	Peak Depth (in)
WBI 1	IT0171	48	6.27	7.59	175.45	93
WBI 2	PL0544	15	Removed			
WBI 3	IT0156	48	8.72	10.63	244.19	91
WBI 4	IT0140	54	11.21	13.04	313.73	104
WBI 5	PL0028	36	0.87	1.26	24.45	94
WBI 5A	PL0167	30	1.40	1.86	39.27	85
WBI 5B	PL0079	30	0.55	1.02	15.25	82
WBI 6	HM0606	48	4.72	5.98	132.18	100
WBI 7	IT0123	48	19.31	22.27	540.65	98
WBI 8	IT0123	12	Removed			
WBI 9	HM0100A	11	0.07	0.14	1.93	4
WBI 10	EA0002	17	0.55	1.04	15.45	56
WBI 12	IT0085	54	21.02	24.49	588.60	157
WBI 13	EU0068	30	2.12	3.13	59.48	157
WBI 14	BH0221	30	1.13	1.46	31.67	23
WBI 15	BH0138	27	0.72	1.05	20.09	10
WBI 16	BH0074T	12	0.07	0.14	1.85	76
WBI 17	BH0074A	15	0.75	0.98	21.09	95
WBI 18	IT0055	66	28.00	32.49	783.87	182
WBI 19	IT0047	15	Removed			
WBI 20	IT0038	66	29.60	34.17	828.68	181
WBI 21	TN4131	24	0.64	0.96	17.90	11
WBI 22	TN4017	54	2.46	5.78	68.96	128
WBI 23	TN4006	11	Removed			
WBI 24	TN40006	48	5.58	9.55	156.19	46
WBI 25	LY0008	48	5.42	11.50	151.74	106
WBI 25 A	LY0039	48	0.16	0.52	4.51	10
WBI 26	IT0019	96	45.81	63.35	1282.63	230
WBI 27	TM0007A	24	0.64	1.23	17.94	19
WBI 28	HC0005A	37	1.12	1.90	31.38	45
WBI 29	IT0001	102	48.22	60.44	1348.74	241
CY 4	CY0280	42	3.01	6.33	84.23	27
HM 1	HM0632	24	1.31	1.80	36.73	78
TR 1	TR0050	42	1.86	3.11	52.05	19

Appendix B
SEP Escrow Deposit

Account Overview - [redacted] Escrow Agrmt Between City of Jackson and Trustmark DTD 8/30/13, Supp

Account Investment Objective: Directed

Summary of Financial Activity

	Current Period ($)	Year to Date ($)
Beginning Market Value	627,742.58	626,595.88
Cash and security transfers	0.00	0.00
Contributions	0.00	0.00
Income & Capital Gain Distributions	1,191.41	2,338.11
Fees	0.00	0.00
Withdrawals	0.00	0.00
Change in Account Value	0.00	0.00
Market Value on Feb 28, 2019	**$628,933.99**	**$628,933.99**

Accrued income not included in Market Value. Refer to Portfolio Holdings schedule for accrued income.

Income and Gain/Loss Summary

	Current Period ($)	Year to Date ($)
Taxable Income	0.00	0.00
Tax-Exempt Income	1,191.41	2,338.11
Tax-Deferred Income	0.00	0.00
Total Income Earned	**$1,191.41**	**$2,338.11**
Total Short Term Realized Capital Gain/Loss	**$0.00**	**$0.00**
Total Long Term Realized Capital Gain/Loss	**$0.00**	**$0.00**
Total Realized Capital Gain/Loss	**$0.00**	**$0.00**

This summary is for reference only. It is not intended for tax reporting purposes.

Asset Allocation as of February 28, 2019

	Market Value ($)	Percent
Cash & Equivalents	628,933.99	100%
Total of Your Account	**$628,933.99**	**100%**

Liabilities may reflect temporary cash overdrafts, including overdrafts between the income and principal portfolios. Percentages are rounded to the nearest whole percent.

Please refer to the "Important Information Regarding this Statement" page to understand the methods used in obtaining market values.

2000021-0000396

Portfolio Analysis - Escrow Agrmt Between City of Jackson and Trustmark DTD 8/30/13, Supp

Equity Sector Analysis

No equity holdings currently held.

Industry sectors are determined by market information providers.

Fixed Income Assets by Maturity Band

No fixed income holdings currently held.

Maturity is reflected by the contractual maturity of the asset.

Fixed Income Assets by Credit Rating

No fixed income holdings currently held.

Credit ratings are defined by Standard & Poors.

Fixed Income Assets by Sector

No fixed income holdings currently held.

Fixed income sectors are determined by market information providers.

Please refer to the "Important Information Regarding this Statement" page to understand the methods used in obtaining market values. Percentages are rounded to the nearest whole percent.

Account Holdings as of February 28, 2019

	Number of Shares	Share Price	Market Value	Accrued Income	Cost Basis / Unrealized Gain or Loss	Yield at MV	% of Account
Escrow Agrmt Between City of Jackson and Trustmark DTD 8/30/13, Supp Environmental Proj S							
Cash & Equivalents							
Money Market							
Federated US Treasury Cash Reserves CUSIP:60934N682	628,933.99	1.00	628,933.99	1,086.27	628,933.99 0.00	2.28%	100.00%
Total Money Market			$628,933.99	$1,086.27	$628,933.99 $0.00	2.28%	100.00%
Total Cash & Equivalents			$628,933.99	$1,086.27	$628,933.99 $0.00	2.28%	100.00%
Total for Escrow Agrmt Between City of Jackson and Trustmark DTD 8/30/13, Supp Environmental Proj S			$628,933.99	$1,086.27	$628,933.99 $0.00	2.28%	100.00%

Please refer to the "Important Information Regarding this Statement" page to understand the methods used in obtaining market values.

2000021-0000355

Account Transaction Detail

Trade Date	Transaction Description	Principal Amount	Income Amount	Realized G/L
	Escrow Agrmt Between City of Jackson and Trustmark DTD 8/30/13, Supp Environmental Proj S			
Corporate Actions/Income				
Dividends				
February 1, 2019	Daily Rate Income on Federated US Treasury Cash Reserves For Period of 01/01/19 to 01/31/19 Due on 02/01/19	1,191.41		0.00
Total Dividends		**$1,191.41**	**$0.00**	**$0.00**
Total Corporate Actions/Income		**$1,191.41**	**$0.00**	**$0.00**
Cash Sweep Activity				
February 28, 2019	Sweep purchases totaling 1,191.41 units of Federated US Treasury Cash Reserves for Portfolio-01 (Capital) (1 Transactions)	-1,191.41		0.00
Total Cash Sweep Activity		**-$1,191.41**	**$0.00**	**$0.00**
Total Escrow Agrmt Between City of Jackson and Trustmark DTD 8/30/13, Supp Environmental Proj S		**$0.00**	**$0.00**	**$0.00**

Account Cash Flow Summary

	Debit	Credit	Balance
Escrow Agmt Between City of Jackson and Trustmark DTD 8/30/13, Supp Environmental Proj S			
Opening Balance on February 1, 2019 - US Dollar			$0.00
Corporate Actions/Income			
Dividends	0.00	1,191.41	
Total Corporate Actions/Income	**$0.00**	**$1,191.41**	
Cash Sweep Activity	1,191.41	0.00	
Closing Balance on February 28, 2019 - US Dollar	**$1,191.41**	**$1,191.41**	**$0.00**

Account Cash Activity Detail

Settlement Date	Transaction Description	Debit	Credit	Balance
	Escrow Agrmt Between City of Jackson and Trustmark DTD 8/30/13, Supp Environmental Proj			
S				
Opening Balance on February 1, 2019 - US Dollar				$0.00
Corporate Actions/Income				
Dividends				
February 1, 2019	Daily Rate Income on Federated US Treasury Cash Reserves For Period of 01/01/19 to 01/31/19 Due on 02/01/19		1,191.41	
Total Dividends		**$0.00**	**$1,191.41**	
Total Corporate Actions/Income		**$0.00**	**$1,191.41**	
Cash Sweep Activity				
February 28, 2019	Sweep purchases totaling 1,191.41 units of Federated US Treasury Cash Reserves for Portfolio-01 (Capital) (1 Transactions)	1,191.41		
Total Cash Sweep Activity		**$1,191.41**	**$0.00**	
Closing Balance on February 28, 2019 - US Dollar		**$1,191.41**	**$1,191.41**	**$0.00**

Market value reconciliation [redacted] - Escrow Agrmt Between City of Jackson and Trustmark DTD 8/30/13,

	Net amount	Balance
Beginning market value		$627,742.58
Income & Capital Gain Distributions		
Dividends	1,191.41	
Total Income & Capital Gain Distributions		$1,191.41
Total Realized gain/loss		$0.00
Total Net change in unrealized gain/loss		$0.00
Total Ending market value		$628,933.99

Important Information Regarding this Statement

Design of Control Procedures
Trustmark has designed control procedures to protect you and your account. You should complement these control procedures by taking the steps described below to increase their effectiveness. The considerations presented below should not be regarded as a comprehensive list of actions that should be employed. Client disclosures are included in the following sections.

Security Precautions
Never share your user IDs, passwords or other security credentials with anyone. Change your passwords periodically. Physical and logical access to systems, in addition to sending data to and receiving data from Trustmark should be restricted to authorized personnel. If you are transmitting to or receiving data from Trustmark, you should compare the data you send or receive to your statements to ensure the information is complete and accurate. Keep your statements in a secure place, and consider using secure electronic viewing of statements.

Notice of Statement Acceptance by Negative Response
Trustmark serves as trustee, agent, custodian or some similar capacity regarding this account. This statement is your accounting of assets held and activity within the account for the specified period. You should immediately review this accounting very carefully, and you should consult with your legal and/or financial advisors about this account on a regular basis. If you notice any activity in your account that concerns you, please bring it to Trustmark's attention immediately. If you do not contact Trustmark within 60 calendar days after the statement mailing date, Trustmark will rely on the understanding that you are satisfied with this accounting and Trustmark's handling of the account.

Contact for Questions Regarding Statement
If you have any questions about the information on your account statement, contact your relationship manager. Your relationship manager's name, telephone number, and email address is on this account statement. You may also elect to contact Trustmark's audit department directly by writing to Trustmark National Bank, Attn: Audit Department, PO Box 291, Jackson, MS 39205.

Delivery of Assets
You should provide specific written instructions to Trustmark to facilitate asset delivery transactions. Use Trustmark's standard delivery instructions to add assets to your account. Delivery instructions may be found on Trustmark's website www.trustmark.com, Tailored Wealth, Tailored Wealth Overview, and selecting Delivery Instructions from the list of Related Links. Review your periodic account statement, in a timely manner for additions and reductions of assets.

Changes in Financial Situation, Investment Objectives and Imposition of Restrictions on Management of Model Portfolios along with Brochure Disclosure
Any changes in your financial situation or investment objectives; desires to impose any reasonable restrictions on the management of model portfolios, or modifications to existing restrictions require you to contact your Trustmark relationship manager. Trustmark Investment Advisors, Inc. ("TIAI") will review the reasonableness of such restrictions to the extent that Trustmark makes TIAI aware of them. If proposed restrictions are inconsistent with the model portfolio's investment strategy, nature or operations, such restrictions will be deemed unreasonable and will not be applied. If you refuse to modify or withdraw the restrictions, participation in the model portfolio will not be permitted. If you would like a copy of the most recent disclosure document for your sponsor or model portfolio investment adviser, please contact your Trustmark relationship manager. TIAI is a Registered Investment Adviser, a division of the Tailored Wealth Management Division and wholly owned subsidiary of Trustmark National Bank.

Investment Products and Accounts
Investment products such as stocks, bonds, and mutual funds and the accounts in which they are held are not insured by the Federal Deposit Insurance Corporation ("FDIC"),

continued on next page

Appendix C

Partial Listing of Maintenance Activities at the Wastewater Treatment Facilities

Savanna Maintenance Activities (Partial listing)

August 2018

- Installed Godwin Pump to drain aeration tanks 8 and 7 west to inspect internal aeration piping and sludge.
- #4 press sludge pump base broke, assess the repair and re-welded the base.
- #4 Old RAS was running high temperature, took out of service and checked and changed the coolant, put back in service.
- Found potable water leak underground at SO2 building dug up and repaired.
- Removed existing broken washdown piping on 8 and 7 aeration tanks and replaced.
- Welded both wash down hydrants on 8 and 7 aeration tanks.
- West WDS pump took out of service due to noise, removed rags and put back in service.
- East WDS piping broken at the overhead coupling, replaced the coupling.
- Assisted Aspen in wiring up and testing functions of the 3 old presses taken out of dewatering.
- Pumped out the south bar rack channel and removed the grit from the grit chamber.
- Repaired the aeration mechanical joint on the frac tank to stop air leak.
- Replaced the tee joint and flange piping on the west WAS pump.
- Installed a new Variable Frequency Drive on the west WAS pump.
- Installed new guides on the sw bar screen due to hanging up and coming off track.
- Relocated the Godwin diesel pump to pump down clarifier #5 for repairs.
- Removed existing scum baffle brackets and installed new ones to hang new baffles.
- Installed new scum baffles and hardware in clarifier #5 and put back online.
- Removed rags in sludge pump on the #4 belt press.
- Replaced the bottom roll belt on press #4 due to age related tear.
- Installed repaired bar screen on the south channel and put in service.
- Removed 2 aeration diffusers for inspection.
- Removed #4 plant water supply pump for repair.
- Installed new 3 ton manual chain hoist in New RAS.
- Replaced 8 plant pole light bulbs and 4 ballast for the pole lights.
- Serviced the #4 RAW pump and ordered 25 gallons of distilled water.
- Replaced the S02 leak detecting sensor in the control room.
- Installed flow meter supplied by operations at effluent.
- Made repairs to the south grit pump vacuum system.
- Repaired the control wiring to the south bar rack drive motor.

September 2018

- Replaced o rings on the south grit chamber vacuum system.
- Found the scum scraper arm hung on scum pad, straightened arm and replaced 1 swivel joint on scraper pad.
- Cleaned sludge and grit from #8 and #7 aeration tanks and jetted drains.
- Installed new 5 hp sludge pump in the bottom of RAW.
- Installed new MAG Flow Meter at the recovery flume Cell#1.
- Installed the #4 plant water pump (rebuilt) tested and put online.
- Installed new MAG Flow Meter controls at the recovery flume Cell #1.
- Installed new Staff Gauge at the West Rankin Divert flume.
- Repaired #4 belt press air compressor switch on/off controls.
- Installed new wiring for recovery sampler at the relocation of the North Gate sampler.
- Installed new windsocks at the Savanna plant.
- Installed 2 new plant light driver boards on pole light at maintenance shop.

- Made repairs to the recovery gate at the Cell #1 Flume.
- Replaced camlock gasket on press #4 sludge inlet.
- Moved the Diesel Bypass pump to the Bypass channel and recovered water back to Cell #3.
- Repaired Caney Creek sampler, found broken wire on control board.
- Pulled rags from West WDS pump and put back in service.
- Repaired the discharge piping on the West WAS pump.
- Replaced one control fuse for the drive motor on Clarifier #3 skimmer arm.
- Repaired North Bar Screen power supply wiring.
- Repaired grounded wiring in maintenance shop.
- Inspected and removed rags from East WAS pump.
- Repaired the RAW West Screen, adjusted and welded guides on screen.
- Pumped out all electrical manholes.
- Replaced one set of rollers on the discharge conveyor at Dewatering.
- Jetted the east thickener supply pipe.
- Installed new staff Gauge on the plant divert flume.
- Dug up and repaired the drain piping at RAW dump pad.

October 2018

- Ordered rebuilt parts and installed on the south grit chamber vacuum system.
- Dug out around the SO2 building entrance doorway, verified no water leaks, built form and poured concrete pad.
- Repaired hand rail on West Rankin divert flume.
- Dug up West Rankin force main #1 to cut in pipe to install new sampler point.
- Moved West Rankin sampler to the new location and ran new conduit and wire for power.
- Repaired north bar screen wiring to the motor control box.
- Installed new guard rails at various locations at cell #1.
- Removed buildup of dirt on the road behind dewatering to allow access for jetting of drain piping from the old sludge lagoons.
- Replaced the bearing on the guide roller on belt press #4.
- Replaced broken and deteriorated control wiring to both south and north grit systems.
- Adjusted run and cycle times on both bar screens at headworks.
- Installed rebuilt WAS pump on the west side removed and replaced drive coupling (warranty).
- Removed and installed bearing on the discharge belt conveyor at Dewatering.
- Completed new electrification to overhead crane in maintenance shop (was safety hazard).
- Started modifying polymer stands to accept new weight scales.
- Cleaned coils on Caney Creek sampler and put back online.
- Worked with electrical engineers on the UV system to evaluate repairs needed to get working.
- Repaired sludge line from the WDS pumps to the Frac tank, contractor hit the discharge valve and broke pipe.
- Install weighted suction tube on West Rankin new sampler location.
- Removed RAW pump #3 to send out to M&O to machine shaft seal saddle.
- Filled RAW pump #4 rheostat with 15 gallons of distilled water.
- Repaired aeration lines in the frac tank.
- Repaired all light fixtures at head works with LED bulbs.
- Replaced sodium bulb at soda building.
- Repaired lights on Clarifier #5.
- Replaced the drive coupling on the #3 plant water supply pump.
- Installed RAW bottom floor water level alarm system.
- Installed new RAW sump pump and wired it in
- Installed new lockout boxes at Savanna MCC rooms for multi technician use.
- Replaced floats and control wiring at RAW sump pump controls

- Installed reworked RAW #3 pump received from M&O.

November 2018

- Cleaned out floor drains at RAW and de-ragged small sump pumps.
- Made adjustments to polymer stands in de-watering to install weight scales.
- Made repairs to RAW bar racks had to weld guides on screens.
- Removed idle roller from press #4 broken shaft.
- Repaired overhead lighting in the Blower room.
- Installed cable winch for dewatering building entrance curtain.
- Repaired outside lights at dewatering office building.
- Moved divert pumps to cell 5 to remove storm water.
- Replaced bearing on discharge conveyor idler roll.
- Repaired electrical control panel for RAW sump pumps.
- Installed conduit and wiring for LED lighting in the SO2 building for operations regulator R&R.
- Installed new controls for large sump pump at the RAW building.
- Repaired lights at the old RAS building.
- Repaired outside lighting at the new effluent.
- Repaired discharge piping for the RAW sump pumps.
- Repaired lighting in the maintenance large building.
- Repaired #4 RAW pump controls found micro switch on the 4160 breaker misaligned.
- Removed RAW #4 Wound Rotor Motor and sent out to www electric for evaluation and repair.
- Removed small sump pump at RAW sump and replaced with a new one.
- Relocated the generator to cell #4 drain pumps remove storm water.
- Repaired discharge piping on the east WAS pump.
- Repaired the control wiring to the bar rack lighting circuit.
- De-ragged the level floats in the frac tank.
- Replaced broken wiring on north bar screen motor power.
- Replaced drive belt on the south exhaust fan at dewatering building.
- Removed broken discharge auger from #4 belt press.

December 2018

- Repaired the upper idle roller on the discharge cake belt at dewatering.
- Removed torn belt and replaced with new style belt on press #4.
- Replaced faulty control transformer on the #1 river gate at old effluent.
- Removing old duct work at RAW for new conduit run for the #4 drive install.
- Repaired electric control door on blower #3.
- Assisted Hydra Service with boom truck to make repairs on diesel pumps at cell #1.
- Dug up potable water line behind the plant water building and repaired.
- Replaced defective ground fault receptacles at the Chlorine supply building.
- Installed check valve on plant water supply strainer #1.
- Installed check valve on plant water supply strainer #2.
- Installed new swing bearing and shaft on press #5.
- Moved Godwin diesel pump to cell #5 to pump out storm water to cell #1.
- Repaired lights in the Chlorine building.
- Repaired RAW #3 pump drive controls (blown fuse).
- Removed and replaced lower belt on press #4.
- Replaced the overhead light bulbs in the new maintenance shop break room.
- Replaced the 369 motor controller on RAW #3 pump.
- Repaired grease supply line on the #1 screw pump controls.
- Placed barricades around force main #1 West Rankin pipe collapse.
- Removed the bottom floor drain pumps and de-ragged.

- Repaired air leak on the frac tank header supply line.
- Repaired the SO2 supply line fitting at the pump connection.

January 2019

- Removed old conduit from Liquid Rheostat in preparation for VFD install for RAW #4.
- Installed new conduit and wiring for VFD for RAW #4.
- Removed control wiring from the 4160 breaker to accept the new VFD for RAW #4.
- Installed new control wiring for VFD control of 4160 breaker for RAW #4.
- Installed aerator from Presidential Hills into the bypass channel.
- Replaced flange gasket on East WDS pump discharge line.
- Jetted frac tank overflow line with new Vac truck jet attachments.
- Installed new 2 inch potable water line to Dewatering Building to supply polymer injection pumps.
- Removed SO2 vacuum pump and installed rebuilt pump.
- Found chlorine solution line leak that supplies the cell #3 structure, excavated pipe and repaired.
- Removed sludge pump on press #4 and installed new sludge pump.
- Installed new ac/heater for lift station supervisor's office (warranty unit).
- Removed \rags from WAS east sludge pump
- Pulled level floats on Dewatering frac tank.
- Replaced grounded wire at the RAW bar rack lighting circuit.
- Pumped water out of the electrical manholes.
- Cleaned the east WDS VFD after sludge line break sprayed the drive.
- Replaced lower bearing on dewatering discharge conveyor.
- Replaced exhaust fan motor in the SO2 building.

February 2019

- Installed aeration blower and diffusers in the bypass channel.
- Repaired overflow pipe on the frac tank.
- Repaired CL2 solution supply line to cell 3 chamber to bypass channel.
- Pulled water champ for SO2 vacuum replaced S/S fitting.
- Removed motor and gearbox from north bar rack for repair.
- Received RAW #4 motor and started installation.
- Motor being laser aligned by WWW Electric contractor.
- Electrical wiring to the VFD and Motor being Hi potted by WWW Electric.
- Added oil to both top and bottom bearings per motor shop instruction.
- Testing RAW#4 pump VFD failed.
- Tried to put plant on Plant power generator step up transformer failed.
- Removing Damaged VFD, awaiting replacement VFD.
- Removing Generator step up transformer awaiting replacement.
- Checked motor on RAW #4 for any damage, checked good.
- Installed ventilation ducting to #4 RAW pump.
- Inspected all backflow preventers at Savanna.
- Completed potable water to polymer pumps Dewatering.
- Removed and replaced bottom belt on belt press #4.
- Removed remaining pieces to the old guard station traffic arm.
- Repaired aeration piping in frac tank west end.
- Repaired gate #5 actuator (control board)
- Repaired CL2 solution line busted by coring contractor.
- Repaired discharge pressure line on RAW #4 pump.
- Replaced heater in the SO2 building.

Trahon Maintenance Activities (Partial listing)

August 2018

- Removed rags from the booster water pumps for the chlorine and SO2 feed. (This is a routine due to rags)
- Removed rags and cleaned out the water supply pumps to the booster pumps. (This is a routine due to rags)
- Replaced 2 of the booster pumps at the chlorine and S02 building.
- Pulled and removed rags from the east grit pump and replaced the stainless pump removal cable.
- Unclogged the grit classifier and put back in service (unclogged)
- Replace a broken valve and PVC line to CL2.
- Replaced the dresser coupling on the #2 plant water supply pump discharge pipe.
- Replaced both pump level winches on both traveling bridges.
- Installed pump relay on west traveling bridge failure due to service age.
- Repaired the crane control pendant at chlorine at S02 building (broken wire)
- Installed 6 led pole lights.
- Pulled and removed rags from plant water supply pump #2 and #3 to chlorine booster pumps.
- Replaced overload assembly on the plant recycle pump #1

September 2018

- Removed rags from the booster water pumps for the Chlorine and SO2 feed. (This is a routine due to rags)
- Removed rags and cleaned out the Water Supply pumps to the booster pumps. (This is a routine due to rags)
- Replaced 1 plant water supply pump.
- Installed new Variable Frequency Drive on #3 influent pump at Trahon.
- Drained and cleaned the #2 Clarifier at Trahon
- Completed installing new grit pump winch on the West Traveling Bridge. October 2018
- Installed new wheels and made repairs to the West Traveling Bridge at Trahon.
- Adjusted steering roller and reset trigger switches on the incline conveyor at Trahon Influent.
- Pulled the level transducer and removed rags and reinstalled for better control of influent pumps.
- Replaced both pump level winches on both traveling bridges.
- Replaced the #2 drain recycle pump rebuilt by GSE.
- Replaced the contactor on the #2 drain recycle pump.
- Pulled and cleaned potable water supply backflow preventer pressure relief valve.
- Replaced the belt on the exhaust fan at dewatering.

October 2018

- Removed rags from the booster water pumps for the Chlorine and SO2 feed. (This is a routine due to rags)
- Removed rags and cleaned out the Water Supply pumps to the booster pumps. (This is a routine due to rags)
- Made repairs to Trahon backhoe bucket so fork arms would attach properly.
- Installing conduit for the electrical supply to the belt press.
- Replaced the oiler supply solenoid on the #1 water supply pump.
- Replaced the level transducer at Trahon Influent station.
- Installed lockout box at the MCC room in Dewatering.
- Installed new level floats at Trahon Influent station.

- Installed new drain recycle pump #2 put in operation.
- Installed new west traveling bridge grit pump .
- Installed new limit switch for east traveling bridge scum scraper.
- Installed new chlorine booster pump #3.
- Repaired plant water supply line leak at aeration basin.
- Rewired and installed new level floats for the grit system transfer pumps.
- Installed new oiler lines for Water Supply pump #2.
- Installed new spray water pump on Clarifier #2.

November 2018

- Removed rags from the booster water pumps for the Chlorine and SO2 feed. (This is a routine due to rags)
- Removed rags and cleaned out the Water Supply pumps to the booster pumps. (This is a routine due to rags)
- De-ragged #3 RAS pump and put back on line.
- Disconnected the belt press (all power and sludge lines) to move press for new smaller press.
- Inspected all Check valves at Trahon Influent and cleaned out.
- Connected power line and sludge lines to new press.
- Removed broken scum arm actuator from west grit bridge and ordered new one.
- Removed both #1 and #2 drain recycle pumps and de-ragged.
- Repaired guide rails and installed new chains for pump #3 at Trahon Influent.
- Troubleshoot drive #2 found that power outage was the cause for the drive fault.
- Cleaned out drain next to Grit transfer station.
- Installed new contactor and overloads for drain recycle #1.
- Repaired plant water supply leak at the north aeration ditch.
- Inspected and troubleshoot problem with do probe at aeration ditch.

December 2018

- Removed rags from the booster water pumps for the Chlorine and SO2 feed. (This is a routine due to rags)
- Removed rags and cleaned out the Water Supply pumps to the booster pumps. (This is a routine due to rags)
- Troubleshot Trahon influent pump #4 found control fuse blown.
- Get Sandling press strapped down and ready for removal.
- Pulled drain recycle pump #1 and de-ragged.
- Installed loaner effluent flow meter sent old meter out for repair.
- Installed new cable on bridge grit pump winch.
- Removed and cleaned Trahon influent pump station level transducer.
- Troubleshot the SO2 and CL2 alarms, found small leak at the SO2 regulator.
- Removed RAS pump #1 and de-ragged.
- Replaced the grit transfer on float at the wet well.

January 2019

- Removed rags from the booster water pumps for the Chlorine and SO2 feed. (This is a routine due to rags)
- Removed rags and cleaned out the Water Supply pumps to the booster pumps. (This is a routine due to rags)
- Removed Trahon influent pump #4 found motor windings shorted to ground.
- Removed Trahon influent pump #3 base elbow broken removed and waiting correct replacement.
- Pump Trahon influent pump #1 check valve was cleaned of debris and working.

- Installed rental pump in Trahon Influent pump station due to station failure.
- Removed Rags from grit transfer pump #1 and put back in service.
- Pulled and removed rags from west traveling bridge grit pump.
- Removed old unions and piping on CL2 feed and installed new.
- Removed rags from RAS pump #1.
- Installed rebuilt Flow meter at effluent flume.

February 2019

- Removed rags from the booster water pumps for the Chlorine and SO2 feed. (This is a routine due to rags)
- Removed rags and cleaned out the Water Supply pumps to the booster pumps. (This is a routine due to rags)
- Pulled the drain recycle pumps and removed rags.
- Inspected backflow preventers.
- Pulled transducer at Trahon Influent cleaned and put back in service.
- Received and installed repaired flow meter at the effluent discharge.
- Reinstalled PLC program for Trahon Influent pump control system.
- Replaced the operator interface screen on the Trahon Influent control system, too dark to read.
- Replaced power supply for the do system on the aeration ditch.

Presidential Hills Maintenance Activities (Partial listing)

August 2018

- Replaced the control fuse for the SBR#1 aeration controls.
- Unclogged the auger conveyor drain at head works.
- Cleaned the transducer for the SBR #2

September 2018

- Replaced the ISO filters by the ISO rep.
- Added pressure gauges on ISO pumps
- Repaired the electrical short to the UV system.
- Repaired the vent plug on the screen gearbox.
- Replaced broken electrical manhole wiring supplying UV system.

October 2018

- Troubleshoot Influent sampler; Found ant nest in controls.
- Adjusted valve stem packing at Potable water supply valves.
- Restocked UV bulbs (spares).
- Troubleshoot influent pump #4, found overload tripped.

November 2018

- Removed the DO probe at the EQ basin for repair.
- Replaced 2 UV bulbs on bank #1.
- Installed repaired upstream and downstream monitoring relay.
- Repaired backflow preventer on plant potable water supply.
- Tested and verified Uplink alarm controller working.

December 2018

- Pumped the electrical manhole of water.
- Replaced the control board at the EQ basin for the UV system.
- Removed and cleaned turbidity probe.

January 2019

- Installed new level Transducer for SBR #2.
- Installed new DO probe at the EQ basin.
- Installed new control card on the UV system.

February 2019

- Pulled the EQ basin pumps and removed rags.
- Inspected all backflow preventers.