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Water and Sewer
PO Box 330316 • 3071 SW 38 Avenue
Miami, Florida 33233-3016
T 305-665-7471

VIA ELECTRONIC CORRESPONDENCE

February 2, 2015

CCN: 59064
File No: 8DC.20.33

Chief, Environmental Enforcement Section
Environment and Natural Resources Division
U.S. Department of Justice
P.O. Box 7611
Ben Franklin Station
Washington, D.C. 20044-7611
RE: DOJ No. 90-5-1-1-4022/1
Walter.Benjamin.Fisherow@usdoj.gov

Chief, Clean Water Enforcement Branch
Water Protection Division
ATTN: Brad Ammons
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
Ammons.Brad@epa.gov

Rachael Amy Kamons
Environmental Enforcement Section
U.S. Department of Justice
P.O. Box 7611
Ben Franklin Station
Washington, D.C. 20044-7611
Rachael.Kamons@usdoj.gov

Florida Department of Environmental Protection
Southeast District – Suite 200
400 N. Congress Ave.
West Palm Beach, FL 33401
Attn: Compliance/Enforcement Section
Michael.Hambor@dep.state.fl.us

RE: Consent Decree (Case: No. 1:12-cv-24400-FAM), Reference DOJ Case No. 90-5-1-1-4022/1, Section IX – Reporting Requirements, Paragraph 33 – Semi-Annual Report 2014 Semi-Annual Report No. 2

Dear Sir/Madam:

In accordance with the provisions of Paragraph 33 of the above referenced Consent Decree, on behalf of Miami-Dade County, the Miami-Dade Water and Sewer Department (MDWASD) submits to both the United States Environmental Protection Agency (EPA) and the State of Florida Department of Environmental Protection (FDEP) the first Semi-Annual Report, that includes the progress made in implementing the requirements of the Consent Decree during the period of time from July 1, 2014 through December 31, 2014. The report also includes the anticipated work to be completed over the next two calendar quarters through June 30, 2015. The County has met all of the Consent Decree requirements for the previous two calendar quarters and is in full compliance with the Consent Decree.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true, accurate

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and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Should you have any questions regarding this matter, please call me at (786) 552-8571.

Sincerely,



Juan Carlos Arteaga, AIA, NCARB, CBO, APA
Deputy Director

Attachment: 2014 Semi-Annual Report No. 2

cc: Jonathan A. Glogau
Special Counsel
Chief, Complex Litigation
Office of the Attorney General
PL-01, The Capitol
Tallahassee, FL 32399-1050
850-414-3817
Jon.Glogau@myfloridalegal.com

Florida Department of Environmental Protection
Southeast District – Suite 200
400 N. Congress Ave.
West Palm Beach, FL 33401
Attn: Compliance/Enforcement Section
Linda.Brien@dep.state.fl.us
Lisa.M.Self@dep.state.fl.us
Sed.wastewater@dep.state.fl.us

Mayor Carlos A. Gimenez
Miami-Dade County
111 NW First Street 29th Floor
Miami, Florida 33128

Bill Johnson, Director
Miami-Dade Water and Sewer Department
3071 SW 38th Avenue
Miami, Florida 33146

Jack Osterholt
Director, Miami-Dade Regulatory and
Economic Resources
111 NW 1st St
29th Floor
Miami, FL 33128
Josterholt@miamidade.gov

Robert A. Cuevas, Jr.
Miami-Dade County Attorney
111 NW First Street Suite 2810
Miami, Florida 33128

William Bush
Associate Regional Counsel
U.S. EPA, Region 4
61 Forsyth Street, SW
Atlanta, Georgia 30303
Bush.William@epa.gov

William A. Weinischke
Senior Trial Attorney
Environmental Enforcement Section
Environment and Natural Resources Division
U.S. Department of Justice
P.O. Box 7611
Washington, D.C. 20044
Bill.Weinischke@usdoj.gov

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Semi-Annual Report No. 2

July 1, 2014 through December 31, 2014

Prepared for

**United States Environmental Protection Agency and
Florida Department of Environmental Protection**

**Consent Decree
Case: No. 1:12-cv-24400-FAM**

Prepared by

**Miami-Dade Water and Sewer Department and the
Consent Decree Program Management Team**



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Acronyms and Abbreviations

AC	Asbestos Cement
BODR	Basis of Design Report
CMOM	Capacity, Management, Operations, and Maintenance
CDWWTP	Central District Wastewater Treatment Plant
CD	Consent Decree
CIP	Capital Improvement Project
CIPP	Cured in Place Pipe
EFT	Electronic Funds Transfer
EPA	Environmental Protection Agency
FOG	Fats, Oils, and Grease
FDEP	Florida Department of Environmental Protection
GPD	Gallons per Day
GPM	Gallons per Minute
GIS	Geographic Information Systems
I/I	Inflow/Infiltration
IMS	Information Management System
LF	Linear Foot
MDWASD	Miami-Dade Water and Sewer Department
MGD	Million Gallons per Day
NPDES	National Pollutant Discharge Elimination System
N/A	Not Applicable
OOL	Ocean Outfall Legislation
PDR	Public Document Repository

PS	Pump Station
RER-DERM	Department of Regulatory and Economic Resources-Division of Environmental Resources Management
RTU	Remote Telemetry Unit
R & R	Renewal and Replacement
SSO	Sanitary Sewer Overflow
SEP	Supplemental Environmental Project
SORP	Sewer Overflow Response Plan
SCADA	Supervisory Control and Data Acquisition
VFD	Variable Frequency Drive
VSC	Volume Sewer Customer
WCTL	Wastewater Collection and Transmission Line
WCTS	Wastewater Collection and Transmission System
WWTP	Wastewater Treatment Plant

1.0 Executive Summary

On May 21, 2013, Miami-Dade County ("County") approved a Consent Decree (CD) with the United States of America, the State of Florida Department of Environmental Protection, and the State of Florida, in the case styled *United States of America et. al. v. Miami-Dade County, Florida*, No. 1:12-cv-24400-FAM. On June 6, 2013 the CD was lodged with the United States District Court for the Southern District of Florida ("Court"). The Effective Date of the CD is December 6, 2013 (six months after the date of lodging). On April 9, 2014, the Court approved the CD with the United States of America, the State of Florida Department of Environmental Protection, and the State of Florida.

The County submits this Semi-Annual Report ("Report") to the Environmental Protection Agency ("EPA") and the State of Florida Department of Environmental Protection ("FDEP") for review and comment in accordance with the requirements of paragraph 33 of the CD. In accordance with the CD, this Report includes a description of the projects and activities completed and milestones achieved during the previous two calendar quarters (July 1, 2014 through December 31, 2014), and also provides projections for significant projects and activities anticipated to be completed in the next two calendar quarters (January 1, 2015 through June 30, 2015).

On March 18, 2014, the County approved a resolution of commitment not to transfer funds from the collection of sewer rates for purposes not related to the management, operation, or maintenance of the Sewer System or its capital improvement needs. During this reporting period, there were no transfers of funds from the Miami-Dade Water and Sewer Department ("MDWASD") that are required to be tracked and reported by Paragraph 19(j)(v) of the CD and the Policy Resolutions.

MDWASD contracted Woolpert to assist in the development of the CMOM Programs. Woolpert's Notice to Proceed was issued on December 16, 2014 by the County. Integrated Green Technologies was selected on December 19, 2014 to head Phase 2 of the Fats, Oils and Grease ("FOG") Control Program. In addition, MWH and HDR were selected as Wastewater Treatment Plant and Wastewater Collection and Transmission Line Design Consultants, respectively.

The County has met all of the CD requirements for the previous two calendar quarters and is in full compliance with the CD. The projects, activities, and milestones achieved, and the deliverables submitted to EPA/FDEP for review and comment are listed in Table 1-1. The upcoming projects, activities, milestones, and deliverables for the next two calendar quarters are listed in Table 1-2. Additional program and project information is included in the Progress Work Tables and Gantt charts in Appendix A and Appendix B, respectively.

Table 1-1 Completed CD Projects, Activities, Milestones, and Deliverables

CD Projects, Activities, and Milestones	CD Reference	CD Deadline	Completion or Submittal Date	CD Compliant (Yes/No)
Make available a copy of each specified Deliverable in the Public Document Repository (PDR) no later than one business day from submission	Section V, para 9	Ongoing	Ongoing	Yes
Ensure Adequate Pumping, Transmission and Treatment Capacity under the conditions of Appendix A	Section VI, para 18(a)	Ongoing	Ongoing	Yes
Continue implementing existing Pump Station Remote Monitoring Program	Section VI, para 18(b)	Ongoing	Ongoing	Yes
Continued Implementation of SSO Identification and Reporting	Section VI, para 19(b)	Within 24 hours and 5 days of known occurrence	Ongoing	Yes
Annual Update of Unpermitted Discharges Contingency Plan Year 2014	Section VI, para 19(b)	N/A	12/22/14	Yes
Financial Analysis Program	Section VI, para 19(j)	12/7/2014	12/4/2014	Yes
Post Financial Analysis Program in PDR	Section V, para 9	1 business day after submittal	12/4/2014	Yes
Submit Quarterly Report No. 2	Section IX, para 32	7/30/2014	7/28/2014	Yes
Post 2014 Quarterly Report No. 2 in PDR	Section IX, para 36	1 business day after submittal	7/28/2014	Yes
Submit 2014 Quarterly Report No. 3	Section IX, para 32	10/30/2014	10/27/2014	Yes
Post 2014 Quarterly Report No. 3 in PDR	Section IX, para 36	1 business day after submittal	10/27/2014	Yes

Table 1-2 Upcoming CD Projects, Activities, Milestones, and Deliverables in the Next Two Calendar Quarters

CD Projects, Activities, and Milestones	CD Reference	CD Deadline	Anticipated Completion or Submittal Date
Continued Implementation of Existing CMOM Programs	Section VI, para 18	Ongoing	Ongoing
Submit 2014 Modifications to Interim Milestones Quarterly Report	N/A	2/2/2015	2/2/2015
Submit FOG Control Program	Section VI, para 19(a)	6/8/2015	6/8/2015
Post FOG Control Program in PDR	Section V, para 9	1 business day after submittal	1 business day after submittal
Submit Gravity Sewer System Operations and Maintenance Program	Section VI, para 19(e)	2/6/2015	2/6/2015
Post Gravity Sewer System Operations and Maintenance Program in PDR	Section V, para 9	1 business day after submittal	1 business day after submittal
Submit Pump Station Operations and Preventative Maintenance Program	Section VI, para 19(f)	4/6/2015	4/6/2015
Post Pump Station Operations and Preventative Maintenance Program in PDR	Section V, para 9	1 business day after submittal	1 business day after submittal
Submit WWTP Operations and Maintenance Program	Section VI, para 19(h)	5/6/2015	5/6/2015
Post WWTP Operations and Maintenance Program in PDR	Section V, para 9	1 business day after submittal	1 business day after submittal
Submit 2014 Quarterly Report No. 4	Section IX, para 32	2/2/2015	2/2/2015
Post 2014 Quarterly Report No. 4 in PDR	Section IX, para 36	1 business day after submittal	1 business day after submittal
Submit 2015 Quarterly Report No. 1	Section IX, para 32	4/30/2015	4/30/2015
Post 2015 Quarterly Report No. 1 in PDR	Section IX, para 36	1 business day after submittal	1 business day after submittal
Submit 2015 First Quarter Modifications to Interim Milestones Report	N/A	4/30/2015	4/30/2015

Table 1-3 is an “Issues Log” which includes issues that have been identified by MDWASD, Department of Regulatory and Economic Resources-Division of Environmental Resources Management (“RER-DERM”), EPA or FDEP in regard to the CD and any clarifications, decisions or resolutions of these issues.

Table 1-3 Issues Log			
Item	Date	Description	Resolution/Clarification/Decision
1	12/4/2014	MDWASD requested clarification regarding CD language on the Gravity Sewer System Operations and Maintenance Program (GSSOMP).	EPA agreed to the following regarding the GSSOMP: <ul style="list-style-type: none"> EPA concurred with MDWASD’s interpretation of plan contents and that implementation of the plan takes place after the plan is approved for both the corrosion control study/findings and the inspection of easements. EPA agreed with MDWASD’s tentatively proposed level of easement inspection/maintenance. MDWASD proposed conducting easement inspections in conjunction with other field investigations, such as: responses to SSO events, Sanitary Sewer Evaluation Surveys, critical crossing inspections, etc. MDWASD may also propose that inspections be done on those easements not maintained by property owners (about 5 to 10% of easements). Maintenance will be done only when there is a need to access the sewer.
2	12/4//2014	MDWASD requested clarification on notification/reporting requirements for CIP interim milestone dates.	EPA agreed to the following for CIP Interim Milestone Dates EPA/FDEP Notification and Reporting: <ul style="list-style-type: none"> Submit modified interim milestone dates to EPA/FDEP on a quarterly basis at same time as the Quarterly Report. Report interim milestone dates for Capital Projects 5.14 to 5.18 for each pump station. Report interim milestone dates for Capital Projects 4.9 Asbestos Cement Pipe force main replacement projects as a group. Schedule monthly teleconference meetings with EPA/FDEP to review status of each project. Notify EPA/FDEP within 72 hours if a final CD completion date will be missed or potentially missed.

Table 1-3 Issues Log

Item	Date	Description	Resolution/Clarification/Decision
3	6/18/2014	The District's Court's Order requires the United States to submit a status report no later than 30 days after receipt of the County's submission of its first and subsequent Semi-Annual Report to the EPA and FDEP. Bertha Goldenberg asked Brad Ammons if they would like MDWASD to provide additional information to assist EPA in preparing the report to the District Court.	EPA has asked MDWASD for assistance in streamlining the Semi-Annual Report that the United States submits to the District Court. A table containing all the Capital Improvement Project (CIP) dates that have changed will be prepared ahead of time.

2.0 Introduction

2.1 Purpose

On June 6, 2013 the CD was lodged with the United States District Court for the Southern District of Florida (“Court”). The Effective Date of the CD is December 6, 2013 (six months after the date of lodging). Six years from the Effective Date of the Consent Decree and each subsequent year until termination, the United States, FDEP, and Miami-Dade agree to consider whether to discontinue the Semi-Annual Reports. If the United States, FDEP and Miami-Dade agree to discontinue the Semi-Annual Report, such modification shall be considered a non-material change to this CD pursuant to Section XX (Modification); and the information required in Subparagraphs 33(a) through (d) in the CD shall then be included in each Annual Report submitted pursuant to Paragraph 34 of the CD and shall cover the applicable Calendar Year rather than two (2) Calendar Quarters. On April 9, 2014, the Court approved a CD with the United States of America, the State of Florida Department of Environmental Protection, and the State of Florida. Pursuant to Section IX of the CD, the County is required to submit a Semi-Annual Report to EPA and FDEP. Miami-Dade has prepared this Semi-Annual Report to satisfy the reporting requirements found in Paragraph 33 of the CD.

2.2 Requirements

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

1. A description of projects and activities completed and milestones achieved during the previous two (2) calendar quarters pursuant to the requirements of this CD, in Gantt chart or similar format, including a description of the status of compliance or non-compliance with the requirements of this CD and, if applicable, the reasons of non-compliance;
2. A summary of significant projects and activities anticipated to be performed, and milestones anticipated to be achieved, in the successive two (2) calendar quarters to comply with the requirements of the CD, in Gantt or similar format;
3. The amount, recipient and the date of transfer or use during the previous two (2) calendar quarters of funds obtained by the County from the collection of sewer rates for any purpose not related to the management, operation or maintenance of the Sewer System or to any capital improvement needs of the Sewer System that is required to be tracked and reported pursuant to the Financial Analysis Program set forth in Subparagraph 19(j)(v) of the CD;
4. Any additional information the County determines is appropriate to demonstrate that the County is implementing the remedial actions required under the CD in an adequate and timely manner.

2.3 Reporting Schedule

Pursuant to Paragraph 33 of the CD, semi-annual reports are to be submitted to the EPA and FDEP beginning (1) month after the first two (2) calendar quarters following the Effective Date of the CD, and (1) month after each subsequent two (2) calendar quarters until termination of the CD. Since the Effective Date of the CD is December 6, 2013, the first Semi-Annual Report is due by July 30, 2014 according to the above requirement. Subsequent Semi-Annual Reports will be submitted pursuant to Paragraph 33 of the CD. As indicated in Section 2.1 of the Introduction, six years from the Effective Date of the Consent Decree and each subsequent year until termination, the United States, FDEP, and Miami-Dade agree to consider whether to discontinue the Semi-Annual Reports.

2.4 Reporting Structure

Work progress is presented in the body of the Report in a narrative format as well as in Tables found in Appendix A. The narrative includes a brief description of each CD project, as well as any activities completed or milestones that were achieved in the previous two calendar quarters and those anticipated to be completed in the next two calendar quarters. In addition to these descriptions, a schedule containing each of the projects in Gantt chart format is provided in Appendix B.

3.0 Work Progress

3.1 Continuation of Capacity, Management, Operations and Maintenance ("CMOM") Programs of the First Partial Consent Decree and Second and Final Partial Consent Decree – Paragraph 18

A summary of the continuing CMOM programs and their status for the previous two calendar quarters and the next two calendar quarters can be found in Table A-1.1 in Appendix A Work Progress Tables.

3.2 New CMOM Programs – Paragraph 19(a) through (h), (j)

A summary of the new CMOM programs in Paragraphs 19(a) through (h) and their status for the previous two calendar quarters and the next two calendar quarters can be found in Table A-2.1 in Appendix A Work Progress Tables.

3.2.1 Specific Capital Improvement Projects ("CIPs") Program – Paragraph 19(i)

Based on previous investigations the County has identified certain rehabilitation projects that are intended to address conditions currently causing SSOs or contributing to NPDES permit violations. In accordance with Paragraph 19(i), these specific capital improvements are identified and described in the Work Plan set forth in Appendix D of the CD. A summary of these CIPs and their status for the previous two calendar quarters and the next two calendar quarters can be found in Tables A-3.1, A-3.2 and A-3.3 for the WWTPs, Tables A-4.1 and A-4.2 for the WCTLs and Table A-5.1 for the Sewer Pump Station Systems in Appendix A Work Progress Tables.

3.3 Supplemental Environmental Project ("SEP") Plan

This project is being performed pursuant to Section VIII and Appendix E of the CD. The County has identified an area in the County which is zoned business, commercial, and industrial, from light to heavy manufacturing where there currently is no access to sewers, and where septic systems are inadequate or failing and many businesses pre-date the current septic system regulations. Disconnecting the industrial users from septic tanks and connecting them to the sewer system will improve water quality in the aquifer and nearby surface waters, and prevent future contamination. Miami-Dade will install at least seven thousand six hundred sixty (7,660) linear feet of Gravity Sewer Mains within an industrial area which currently has no access to sanitary sewers and relies on septic systems.

In the previous two calendar quarters, the CD PMCM Team has conducted site investigations and collected technical data as part of the design validation process, and has prepared a draft Technical Memorandum for internal QA/QC. The PMCM Team will finalize with MDWASD the SEP Technical Memorandum, perform pre-engineering tasks, and advance a BODR and full engineering design to be prepared by a Design Consultant in the next two calendar quarters.

4.0 Additional Information

According to Paragraph 33(d), this report shall include "any additional information Miami-Dade determines is appropriate to demonstrate that Miami-Dade is implementing the remedial actions required under this Consent Decree in an adequate and timely manner."

4.1 State's Ocean Outfall Legislation (OOL)

In 2008, the Florida Legislature approved a law requiring all wastewater facilities in southeast Florida utilizing ocean outfalls for disposal of treated wastewater to reduce nutrient discharges by 2018, cease using the outfalls by 2025, and install a functioning reuse system by 2025.

The EPA, FDEP and the County acknowledge that the County's implementation of the Ocean Outfall Legislation may impact the scope of scheduling of certain capital improvement projects identified in Consent Decree Appendix D. Pursuant to Paragraph 19(i), any modifications agreed upon in writing by the EPA, FDEP and the County to this list of projects or schedules set forth in Appendix D shall constitute a non-material change to the CD as set forth in Section XX (Modification).

During the reporting period, the County procured an OOL consultant to assist in managing and implementing this Plan. The OOL Consultant received Notice to Proceed prior to December 31, 2014 and work is underway.

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Appendix A

Work Progress Tables

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Table A-1.1 Continuation of CMOM Programs of the First Partial Consent Decree and the Second and Final Consent Decree

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
18(a)	Adequate Pumping, Transmission and Treatment Capacity	The Adequate Pumping, Transmission and Treatment Capacity Program is being implemented in accordance with Paragraph 18(a) of the CD. This program ensures adequate transmission capacity for its Pump Stations and adequate treatment capacity for its WWTPs. Pursuant to Appendix A of the CD, certifications are performed by Department of Regulatory and Economic Resources-Division of Environmental Resources Management ("RER-DERM") and kept on file by MDWASD. The EPA can have access to these reports upon request.	Work on the program has been ongoing.	Work on the program is ongoing and will continue beyond June 30, 2015.
18(b)	Pump Station Remote Monitoring Program	The Pump Station Remote Monitoring Program is being implemented in accordance with Paragraph 18(b) of the CD. The continuing program involves the installation and operation of remote monitoring equipment in all Pump Stations in the Wastewater Collection and Transmission System (WCTS) within 6 months after the County becomes operationally responsible for Pump Station.	Work on the program has been ongoing.	Work on the program is ongoing and will continue beyond June 30, 2015.

Table A-1.1 Continuation of CMOM Programs of the First Partial Consent Decree and the Second and Final Consent Decree

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
18(c)	Waste Collection and Transmission Model	The WCTS model is being implemented in accordance with Paragraph 18(c) of the CD. The model assists in the development and implementation of CMOM programs to optimize transmission capacity and to evaluate the impact of I/I rehabilitation projects; proposed modifications, upgrades and expansions to the WCTS; and performance of the WCTS. The WCTS model can also be used to simulate the manifolded Force Mains and private Pump Stations which manifold into the County's Force Main system.	Work included: development of base-line scenarios and project validation scenarios, completion of CD Projects validation including Projects 4.5, 4.8, 4.9, 4.10, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7 and 5.11, completion of Dry Weather Flow (DWF) update, completion of CD DWF and Wet Weather Flow (WWF) projections according to Paragraph 18(c)(i), and CD Model refinement and development of GIS discrepancies database.	Work to include: initiate development of Model and GIS integration procedures according to Paragraph 18(c)(iv), collect wastewater PS information and develop a methodology to incorporate private PS flows into the Model according to Paragraph 18(c)(ii), development of a Model calibration Plan according to Paragraph 18(c)(iv), initiate update of Gravity Sewer elevations in the Model according to Paragraphs 18(c)(iii) and 18(c)(iv), and verification and evaluation of CD Projects 5.8, 5.9, 5.10 and 5.12.
18(d)	Spare Parts Program	The Spare Parts Program is being implemented in accordance with Paragraph 18(d) of the CD. This program is a continuing inventory management program for spare parts for the WCTS and WWTPs.	Work on the program has been ongoing.	Work on the program is ongoing and will continue beyond June 30, 2015.

Table A-1.1 Continuation of CMOM Programs of the First Partial Consent Decree and the Second and Final Consent Decree

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
18(e)	Volume Sewer Customer Ordinance Program	The Purpose of this program is to eliminate or otherwise control SSOs from the WCTS and the collection and transmission systems of present and future VSCs. The VSC Program and the VSC Ordinance were amended in accordance with Paragraph 18(e) of the CD.	Pursuant to Paragraph 18(e)(iii), a draft was written to include scheduling requirements and an approved VSC Plan of Compliance as defined in Appendix B of the CD. These proposed changes to amend the VSC Ordinance were submitted to the EPA /FDEP on April 4, 2014. MDWASD is still awaiting EPA/FDEP approval. RER-DERM held one Utility Round Table meeting with the VSCs to provide technical presentations on CMOM programs and three FOG Control Program meetings.	EPA/FDEP to approve VSCO. County will enact amended VSCO within 180 days of receipt of EPA/FDEP approval.

Table A-2.1 New CMOM Programs

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
19(a)	Fats, Oils and Grease Control Program	The FOG Control Program is being implemented in accordance with Paragraph 19(a) of the CD. The program allows the County to regulate industrial and commercial sources of oil and grease. In addition, this program involves a review, evaluation and revision of the County's previous program. RER-DERM has organized the FOG Control Program into the following three projects; Project 1: FOG Characterization, Control Device Design, and Management, Operation and Maintenance Standards, Project 2: FOG Control Inspections, Enforcement, Compliance and Outreach, and Project 3: FOG Ordinance and Enforcement Management.	FOG Characterization was completed. Outreach meetings were held with stakeholders and VSCOs/utilities. Design meetings were held. Developed FOG Interim Program to expand and implement FOG plan review process, to revise and implement Grease Discharge Operating Permit conditions, and to develop FOG manifest process was developed.	Finalize FOG Control Program and revised Grease Trap Ordinance and submit to EPA/FDEP for review by compliance date of June 6, 2015. The FOG Manifest Process will begin implementation.
19(b)	Sewer Overflow Response Plan	The SORP is a program for identifying and reporting SSOs. The SORP is being implemented in accordance with Paragraph 19(b). This Plan will establish timely and effective methods and means of responding to, cleaning up, and/or minimizing the impact of SSOs; timely reporting of the location, volume, cause, impact, and other pertinent SSO information to the appropriate regulatory agencies; and timely and effective notification of SSOs to potentially impacted public. In addition, the plan involves a re-evaluation of the County's previous program.	CMOM Consultant contract approved. Document development was initiated. Annual Update of Unpermitted Discharges Contingency Plan for year 2014 was submitted to EPA/FDEP on December 22, 2014.	The SORP will be developed in accordance with the EPA CMOM guidance document attached to the CD as Appendix C. The development will continue throughout the first half of 2015 with no major milestones anticipated in the next two calendar quarters.

Table A-2.1 New CMOM Programs

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
19(c)	Information Management System Program	The IMS Program is being developed in accordance with Paragraph 19(c). This plan will aid County managers and field supervisors to adequately track scheduled operational and maintenance activities; evaluate operations, maintenance, customer service and Sewer System rehabilitation activities and improve overall Sewer System performance.	CMOM Consultant contract approved. Document development was initiated.	The IMS Program will be developed in accordance with the EPA CMOM guidance document attached to the CD as Appendix C. The development will continue throughout the first half of 2015 with no major milestones anticipated in the next two calendar quarters.
19(c)(x)	Geographic Information Systems Program	The GIS Program is being developed in accordance with Paragraph 19(c)(x). This program will improve the existing map of the County's entire WCTS. The scope of work for this program involves completing the estimated 1800 GIS backlog projects and estimated 2000 reported GIS data inconsistencies prior to June 7, 2017.	GIS activities included 46.6 miles of pipe added, 32.4 miles of pipe modified, 6326 above ground assets added and 586 above ground assets modified.	GIS activities will include miles of pipe added, miles of pipe modified, above ground assets added and above ground assets modified in the next two calendar quarters.
19(d)	Sewer System Asset Management Program	The Sewer System Asset Management Program is being developed in accordance with Paragraph 19(d). This asset management program will maintain a desired level of service for the County's Sewer System considering life cycle cost to ensure compliance with regulatory requirements and the CD.	CMOM Consultant contract approved. Document development was initiated.	Work on the program will continue throughout the first half of 2015 with no major milestones anticipated in the next two calendar quarters.
19(e)	Gravity Sewer System Operations and Maintenance Program	The Gravity Sewer System Operations and Maintenance Program is being developed in accordance with Paragraph 19(e) of the CD. This program will address SSOs, particularly those caused by FOG, roots and/or debris obstructions.	Program document under development.	Work on the program document will continue in the first half of 2015 with submittal to the EPA/FDEP anticipated on February 6, 2015.

Table A-2.1 New CMOM Programs

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
19(f)	Pump Station Operations and Preventative Maintenance Program	The Pump Station Operations and Preventive Maintenance Program is being developed in accordance with Paragraph 19(f) of the CD. This program will facilitate proper operation and maintenance activities associated with the Pump Stations within the WCTS.	CMOM Consultant contract approved. Document development was initiated.	Work on the program document will continue in the first half of 2015 with submittal to the EPA/FDEP anticipated on April 6, 2015.
19(g)	Force Main Operations, Preventative Maintenance and Assessment/Rehabilitation Program	The Force Main Operations, Preventative Maintenance and Assessment/Rehabilitation Program is being developed in accordance with Paragraph 19(g) of the CD. This program will facilitate proper operations and maintenance activities associated with Force Mains within the WCTS. It will also help produce a criticality assessment of the structural integrity of its Force Mains and the risk of Force Main critical failure.	CMOM Consultant contract approved. Document development was initiated. Repair/Rehabilitation designs commenced.	Assessments will be ongoing. Work on the program will continue throughout the first half of 2015 with no major milestones anticipated in the next two calendar quarters.
19(h)	WWTP Operations and Maintenance Program	The WWTP Operations and Maintenance Program is being developed in accordance with Paragraph 19(h) in the CD. This program will facilitate proper operation, maintenance and equipment replacement activities associated with the WWTPs.	Scope of Services was awarded and development of document was initiated.	Work on the program will continue in the first half of 2015 with submittal to the EPA/FDEP anticipated on May 6, 2015.
19(j)	Financial Analysis Program	The Financial Analysis Program is being implemented in accordance with Paragraph 19(j) of the CD. The purpose of this program is to effectively establish and track the sufficiency of funds for operations and maintenance, capital projects financing, and debt service coverage associated with the Sewer System, including, without limitation, the continued Work pursuant to the CD.	Program plan was submitted to the EPA/FDEP on December 4, 2014 ahead of the compliance date of December 8, 2014.	Program is pending approval. Work on the program will be ongoing and will continue beyond June 30, 2015.

Table A-3.1 South District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
1.1	Headworks	The SDWWTP Headworks project will be performed pursuant to Paragraph 19(i) and Appendix D. This project involves routine repairs on existing bar screen mechanisms in headwork structure prior to aerated grit chambers. Failure of bar screen mechanism could result in the blinding of the bar screen and cause an overflow of raw sewage from the plant headworks structure towards nearby surface waters, especially during peak wet weather.	Scheduled to begin in October 2015. In validation/planning stage.	No activities milestone scheduled.
1.2	Oxygen Production	The SDWWTP Oxygen Production project will be performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to replace and retrofit existing air compression units.	The R&R Consultant submitted a preliminary proposal to start this design.	Design will commence.
1.3	Oxygenation Trains	The SDWWTP Oxygen Trains project will be performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to retrofit aeration mixers and rehabilitate and apply surface coating to the structure. This project was split into two child projects; one for the structural rehab of the trains and another for the mixer upgrades, which includes electrical and building upgrades. The structural rehab will be performed by in-house forces, and the mixer/building work will be designed and constructed in the future.	The Oxygenation Trains mixer upgrades are scheduled to commence in November 2016. The Oxygenation Trains structural rehabilitation is scheduled to begin in November 2019.	No activities milestone scheduled.
1.4	Chlorine Building	The SDWWTP Chlorine Building project will be performed pursuant to Paragraph 19(i) and Appendix D. This project involves replacement of motor control centers, relocation of electrical panels and roof repairs of the old chlorine building where flushing water pumps are to remain.	Scheduled to begin in December 2017. In validation/planning stage.	No activities milestone scheduled.

Table A-3.1 South District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
1.5	Effluent Pump Station	The SDWWTP Effluent Pump Station project will be performed pursuant to Paragraph 19(i) and Appendix D. This project involves an upgrade of the existing obsolete pump control systems, upgrade of the pumps drives and motors, and structural rehabilitation of pump station wet well, i.e. chambers 2 through 4. This project has been split into two separate child projects for the electrical equipment and the building improvements respectively.	The electrical equipment was purchased and was in construction. The required building improvements to the pump station were in the validation process and scheduled to begin in December 2017.	Installation of electrical equipment and construction is anticipated to continue in the first quarter of 2015. For the building improvements, no activities milestone scheduled.
1.6	Gravity Sludge Thickeners	The SDWWTP Gravity Sludge Thickeners project will be performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of the thickened sludge pumps, and electrical systems in the concentrator pump station. It also entails the rehabilitation of the concentrator collector mechanisms and structural rehabilitation and coating of the concentrators.	The R&R Consultant started the work on a technical evaluation of alternatives on July 3, 2014. Design commenced.	Design will continue.

Table A-3.1 South District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
1.7	Digesters and Control Buildings	The SDWWTP Digester and Control Buildings project will be performed pursuant to Paragraph 19(i) and Appendix D. The project involves the rehabilitation or replacement of digester roofs; digester tank cleaning, structural rehabilitation and coating, sludge mixers improvement. This will prevent the loss of digestion capacity and the decline in biogas/methane production for power generation. In addition, it will decrease the amount of unstabilized sludge that will require landfill disposal.	Work on the basis of design report (BODR) by the R&R design consultant (CH2MHill) commenced.	Design will continue.
1.8	Dewatering Facility	The SDWWTP Dewatering Facility project is being performed pursuant to Paragraph 19(i) and Appendix A. The purpose of this project is to replace the existing interim dewatering building with a new permanent dewatering facility. This will improve sludge dewatering and decrease solids accumulation in the secondary treatment process and prevent effluent limit violations.	In validation/planning stage.	Design will commence.
1.9	FOG Removal Facility	The SDWWTP FOG Removal Facility project is being performed pursuant to Paragraph 19(i) and Appendix D. The current FOG separation tank is not capable of adequately handling solids load, resulting in excess odors and unanticipated manual labor to remove large amounts of grit, settled soils and hardened grease. The purpose of this project is to improve separation operations to the recently constructed FOG removal facility. This will result in the conveyance of oils and floating grease to a beneficial use option process and the removal of excess grit and settled solids.	R&R Consultant worked on a technical evaluation of alternatives for this project. The balance of the design performed by the WWTP Design Consultant commenced.	Design will continue.
1.10	Odor Control	The SDWWTP Odor Control project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to upgrade the odor control facilities.	Scheduled to begin in March 2018. In validation/planning stage.	No activities milestone scheduled.

Table A-3.1 South District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
1.11	General Electrical	The SDWWTP General Electrical project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation and replacement of electrical controls and wiring as needed throughout the plant.	Scheduled to begin in February 2016. In validation/planning stage.	No activities milestone scheduled.
1.12	Chlorine Contact Chamber Structural	The SDWWTP Chlorine Contact Chamber Structural project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the structural rehabilitation and coating of chlorine contact chambers 1 through 4.	Scheduled to begin in May 2016. In validation/planning stage.	No activities milestone scheduled.

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
2.1	Electrical Improvements	The CDWWTP Electrical Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation and replacement of electrical controls and wiring as needed throughout the plant.	Scheduled to begin in April 2016. In validation/planning stage.	No activities milestone scheduled.
2.2	Building Improvements	The CDWWTP Building Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. The project involves the repair of maintenance, operations control and administration buildings at the plant. It includes the repair of the roofs and the staff facility. This project was split into two child projects; one for the building improvements to the Administrative Building and another for required repairs to other buildings, e.g. Maintenance, Operations, Storage, etc.	Design work for the Administration Building was completed and permitting commenced. The required repairs to other buildings were in validation/planning stage.	Permitting will be completed and procurement will commence for the Administration Building. Design will commence for the repairs to the other buildings.
2.3	Headworks Plant 1	The CDWWTP Headworks/Grit Basin Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing screening facilities at the CDWWTP influent pump station are inefficient. This results in the accumulation of rags and plastics in plant processes which sometimes leads to pump, mixer and clarifier collection mechanism failure. This project involves the addition of influent screens and an electrical room with upgraded electrical instrumentation.	Work on the basis of design report under the R&R contract (MWH) commenced.	Design will continue.

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
2.4	Headworks Plant 2	The CDWWTP Headworks/Grit Basin project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing screening facilities at the CDWWTP influent pump station are inefficient. This results in the accumulation of rags and plastics in plant processes which sometimes leads to pump, mixer and clarifier collection mechanism failure. This project involves the addition of influent screens and an electrical room with upgraded electrical instrumentation.	Work on the basis of design report under the R&R contract (MWH) commenced.	Design will continue.
2.5	Oxygenation Trains Plant 1	The CDWWTP Oxygenation Trains Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. The project involves the retrofitting of the aeration mixers, structural rehabilitation and surface coating application.	Structural rehabilitation work for Train 2 performed by MDWASD in-house forces during the dry seasons.	Structural rehabilitation work for Train 2 performed by MDWASD in-house forces during the dry seasons.
2.6	Oxygenation Trains Plant 2	The CDWWTP Oxygenation Trains Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. The project involves the retrofitting of the aeration mixers, structural rehabilitation and surface coating application.	Procurement was ongoing.	Procurement will be completed and construction will commence.
2.7	Secondary Clarifiers Plant 1	The CDWWTP Secondary Clarifiers Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to rehabilitate the structure and replace the sludge collection mechanisms in the plant.	Scheduled to begin in July 2020. In validation/planning stage.	No activities milestone scheduled.

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
2.8	Secondary Clarifiers Plant 2	The CDWWTP Secondary Clarifiers Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to rehabilitate the structure and replace the sludge collection mechanisms in the plant.	Scheduled to begin in September 2015. In validation/planning stage.	No activities milestone scheduled.
2.9	RS Pump Stations Plant 1	The CDWWTP RS Pump Stations Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of return sludge pump, piping, motor control centers and structural repairs to the pump stations.	Scheduled to begin in July 2020. In validation/planning stage.	No activities milestone scheduled.
2.10	RS Pump Stations Plant 2	The CDWWTP RS Pump Stations Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of return sludge pump, piping, motor control centers and structural repairs to the pump stations.	Scheduled to begin in September 2015. In validation/planning stage.	No activities milestone scheduled.
2.11	Effluent Pump Station	The CDWWTP Effluent Pump Station project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to replace the pump in the effluent pump station.	Scheduled to begin in April 2016. In validation/planning stage.	No activities milestone scheduled.
2.12	Sludge Thickeners Plant 1	The CDWWTP Sludge Thickeners Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of the thickened sludge pumps, sanitary sewer pumps, HVAC and electrical systems in the concentrator pump station. It also involves the rehabilitation of concentrator collector mechanisms and structural rehabilitation and coating of concentrators.	Scheduled to begin in July 2016. In validation/planning stage.	No activities milestone scheduled.

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
2.13	Sludge Thickeners Plant 2	The CDWWTP Sludge Thickeners Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of the thickened sludge pumps, sanitary sewer pumps, HVAC and electrical systems in the concentrator pump station. It also involves the rehabilitation of concentrator collector mechanisms and structural rehabilitation and coating of concentrators.	Design commenced.	Design will continue.
2.14	Digesters Plant 1	The CDWWTP Digesters Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the complete rehabilitation of sludge digester clusters, i.e. roofs, concrete structures, recirculation and transfer pumps, mixers, and electrical pumps. This will prevent the loss of digestion capacity and the decline in biogas/methane production for power generation. In addition, it will decrease the amount of unstabilized sludge that will require landfill disposal.	Scheduled to begin in August 2019. In validation/planning stage.	No activities milestone scheduled.
2.15	Digesters Plant 2	The CDWWTP Digesters Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the complete rehabilitation of sludge digester clusters, i.e. roofs, concrete structures, recirculation and transfer pumps, mixers, and electrical pumps. This will prevent the loss of digestion capacity and the decline in biogas/methane production for power generation. In addition, it will decrease the amount of unstabilized sludge that will require landfill disposal.	Cluster 1 was in the design phase. Cluster 4 was in validation/planning stage. Clusters 2 and 3 are scheduled to begin in October 2017 and April 2016 respectively.	Design will continue for Cluster 1 and commence for Cluster 4. No activities milestone are scheduled for Clusters 2 and 3.
2.16	Dewatering Building	The CDWWTP Dewatering Building project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to construct a new dewatering facility and sludge cake conveyance system to the sludge storage buildings.	Scheduled to begin in March 2016. In validation/planning stage.	No activities milestone scheduled.

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
2.17	Chlorination Facilities	The CDWWTP Chlorination Facilities project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the design and construction of a new bulk sodium hypochlorite storage and dosing system in separate outdoor structures to replace the existing chlorine gas system.	Evaluation of design alternatives was completed for this project. Design was ongoing.	Design will continue.
2.18	Odor Control Systems	The CDWWTP Cogeneration Facility Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. This involves the replacement of the motor control center of the odor control buildings including air-conditioned electrical rooms. It also involves replacement of odor control chemical pumps, piping, valves and gas stripping tower media.	Scheduled to begin in April 2016. In validation/planning stage.	No activities milestone scheduled.
2.19	Co-Gen Facility	The CDWWTP Cogeneration Facility Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. The project involves the installation of two new cogeneration engines, cogeneration building improvements, replacement of biogas pipeline and installation of biogas conditioning system. Thus, this project has been split into two separate “child” projects; one for the generator replacement and one for the biogas treatment facilities.	Construction commenced for the Co-Gen generator replacement. Co-Gen biogas treatment facilities improvements was in the validation/planning stage.	Construction will continue for the Co-Gen generator replacement. Design will commence for the Co-Gen biogas treatment facilities improvements.

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
2.20	Septage Uploading	The CDWWTP Septage Unloading project is required under Paragraph 19(i) and Appendix D. The CD scope of this project included the construction of a new septage handling station to remove FOG from the main wastewater treatment stream and treat either through digestion or an off-site third part facility. However, the violation associated with this project was resolved by requiring all hauled waste to be sent to the South District WWTP as of January 2013.	In lieu of constructing improvements to the CDWWTP Septage Unloading facilities, MDWASD discontinued the process of receiving septage at the CDWWTP and has shut down the Septage Unloading facilities. Septage has been diverted to the SDWWTP as of January 2013 ahead of the compliance date of 6/3/2022.	N/A
2.21	Pump Station 1	The CDWWTP Pump Station No. 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to rehabilitate the pump station for the odor control system and rehabilitate the bar screen mechanisms.	Scheduled to begin in January 2016. In validation/planning stage.	No activities milestone scheduled.
2.22	Pump Station 2	The CDWWTP Pump Station No. 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of the pump station odor control system, rehabilitation of bar screen mechanism, and replacement pump stations flow metering to improve maintenance accessibility.	In validation/planning stage.	Design will commence.

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
2.23	O ₂ Plant Process Controls Phase 2	The CDWWTP O ₂ Plant Process Controls project is being performed pursuant to Paragraph 19(i) and Appendix D. Existing oxygen production systems are either failing or obsolete. The purpose of this project is to replace existing oxygen production systems.	The procurement for construction commenced.	Procurement for construction will continue and construction will commence.
2.24	Gas Monitoring	The CDWWTP Gas Monitoring project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to monitor gas levels and place alarms in hazardous areas.	In validation/planning stage.	Design will commence.
2.25	Ventilation Improvements	The CDWWTP Ventilation Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to improve ventilation in hazardous areas.	Scheduled to begin in April 2020. In validation/planning stage.	No activities milestone scheduled.
2.26	Rehabilitation of Walkways and Stairways	The CDWWTP Rehabilitation of Walkways and Stairways project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of corroded walkways, stairways, railings, grating throughout the plant.	Construction was ongoing.	Construction will continue.
2.27	Oxygen Production	The CDWWTP Oxygen Production project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing units are near the end of useful life and prone to failure. The purpose of this project is to construct a new 80 ton/day oxygen production cryogenic tower and air compression unit to provide full redundancy.	In validation/planning stage.	Design will commence.

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
2.28	SCADA RTU Upgrades	The CDWWTP Building Improvements project was performed pursuant to Paragraph 19(i) and Appendix D. The old radio communication system was obsolete and it was difficult to procure parts. The purpose of the project was to upgrade the SCADA remote telemetry units to maintain operational sustainability.	This project is complete as of February 10, 2014 ahead of the March 29, 2014 CD compliance date.	N/A
2.29	High Strength Influent Impact Study	The CDWWTP High Strength Influent Impact Study was performed pursuant to Paragraph 19(i) and Appendix D. The CDWWTP was experiencing an increase in TSS and BOD loading. This study investigated the sources and conceptualized solutions to eliminate or mitigate the change in plant influent characteristics.	This study is complete as of June 4, 2014 ahead of the June 24, 2014 CD compliance date.	N/A

Table A-3.3 North District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
3.1	Headworks and Sludge Degritting Transfer	The NDWWTP Headworks and Sludge Degritting and Transfer project is being performed pursuant to Paragraph 19(i) and Appendix D. This project is a 2 Phase approach to improve the existing screening facilities at the NDWWTP. In Phase 1, bar screens are replaced with perforated plate screens and Phase 2 involves the upgrade of the pretreatment buildings for fire code compliance and replacement of primary sludge grit separation equipment.	Permitting was ongoing.	Permitting will be completed and procurement for construction will commence.
3.2	Primary Clarifiers and Odor Control	The NDWWTP Primary Clarifiers and Odor Control project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of the structures of the primary clarifiers. It also involves the rehabilitation of the mechanical and odor control systems at the plant.	The BODR was initiated ahead of schedule on September 3, 2014 by the North District R&R Consultant. Design commenced.	Design will continue.
3.3	Oxygenation Trains	The NDWWTP Oxygenation Trains project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to rehabilitate the structures of the aeration tanks and its mechanical and electrical systems.	Scheduled to begin in October 2018. In validation/planning stage.	No activities milestone scheduled.
3.4	Oxygen Production	The NDWWTP Oxygen Production project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of the structure of the oxygen plant and its mechanical and electrical systems.	In validation/planning stage.	No activities milestone scheduled.

Table A-3.3 North District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
3.5	Secondary Clarifiers	The NDWWTP Secondary Clarifiers project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of the structure of the secondary clarifiers and its mechanical and electrical systems.	Replacement of mechanism nos. 3, 6 and 8 were in procurement. Remaining scope of work commenced design .	Procurement will be completed and construction will commence for the replacement of mechanisms. Design will continue for remaining scope of work.
3.6	Disinfection	The NDWWTP Disinfection project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of the chlorine gas storage, liquid chlorination and dosing system with bulk sodium hypochlorite storage and dosing system in the existing chlorine building.	Design was re-evaluated for any required modifications due to code changes and sea level rise impacts. Design was ongoing.	Design will continue.
3.7	Effluent Disposal	The NDWWTP Effluent Disposal project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the installation of standby pumps to ensure effluent disposal capacity and the structural rehabilitation of the ocean outfall pump station wet well. This project has been split into two separate child projects: the Deep Injection Well (DIW) Pump Station and the Ocean Outfall (OOF) Pump Station.	Design commenced for the DIW Pump Station. The OOF Pump Station was in the validation/planning stage.	Permitting will commence for the DIW Pump Station. Design will commence for the OOF Pump Station.
3.8	Plant Wide Electrical	The NDWWTP Plant Wide Electrical project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation and replacement of electrical controls and wiring as needed at the NDWWTP.	Work on the basis of design report under the R&R contract commenced.	Design will continue.

Table A-3.3 North District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
3.9	Flood Mitigation	The NDWWTP Flood Mitigation project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to mitigate the flood potential in the Generator and Electrical Building at the NDWWTP.	Work on the basis of design report under the R&R contract commenced.	Design will be completed and permitting will commence.
3.10	Yard Piping Replacement	The NDWWTP Yard Piping Replacement project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to replace the wastewater piping that interconnects unit processes throughout the plant.	In validation/planning stage.	No activities milestone scheduled.
3.11	SCADA RTU Upgrades	The NDWWTP SCADA RTU Upgrades project is being performed pursuant to Paragraph 19(i) and Appendix D. The current radio communication system is obsolete and it is difficult to procure parts. The purpose of the project is to upgrade the SCADA remote telemetry units to maintain operational sustainability.	Construction was ongoing and project was completed.	N/A

Table A-4.1 Wastewater Collection and Transmission Lines

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
4.1	Collection System I/I Repairs	The Collection System I/I Repairs project is being performed in accordance with Paragraph 19(i) and Appendix D of the CD. The project targets defective gravity sewers with excessive inflow/infiltration. It involves rehabilitation of the Collection System, i.e. dig & replace mainlines and laterals, manhole replacement, cured-in-place liners and sectional liners and will be performed concurrently with other work.	Work on this project is ongoing.	It is anticipated that work on this project will continue throughout 2015.
4.2	Government Cut FM Phase 1 & 2	The Government Cut FM Phases 1 & 2 project was performed in accordance with Paragraph 19(i) and Appendix D. The purpose of this two phase project is to replace critically damaged sections of 54-inch force main to avert catastrophic failures in Government Cut. This project involved the replacement of 54 inch FM with 60 inch FM from the water shaft in Government Cut to mainland Miami Beach.	This project was completed on September 30, 2013.	N/A
4.3	Government Cut FM Phase 3	The Government Cut FM Phases 3 project is being performed in accordance with Paragraph 19(i) and Appendix D. Phase 3 of this project involves the replacement of 54 inch FM from the land shaft at Fisher Island to CDWWTP at Virginia Key.	Nicholson Construction is the design-builder of this project. 70% of design was completed. Permitting and construction was ongoing.	Construction will continue throughout 2015.
4.4	North Dade 72 inch PCCP FM Rehabilitation	This North Dade Force Main Rehabilitation project is being performed in accordance with Paragraph 19(i) and Appendix D. The project replaces a damaged section of 72-inch force main that has experienced catastrophic failure. The rehabilitation involves 3.5 miles of 72 inch PCCP FM located between NW 17 Avenue and NE 10 Avenue in North Dade.	This project is being performed under a design-build delivery method. Procurement for construction was ongoing.	Award is anticipated at the end of February 2015. Construction will commence.

Table A-4.1 Wastewater Collection and Transmission Lines

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
4.5	South Dade 54 inch PCCP FM Rehabilitation	This South Dade Force Main Rehabilitation project is being performed in accordance with Paragraph 19(i) and Appendix D. The project involves the rehabilitation of 2.5 miles of 54 inch PCCP FM from SW 112 Avenue and SW 280 Street to SW 107 Avenue and SW 248 Street in South Dade. It replaces sections of the 54-inch force main that has critically damaged pipe segments. This project has been split into two (2) separate child projects; one which includes the 2.5 miles of 54" pipe rehabilitation and another for required bypasses.	This project is being performed under a design-build delivery method. Design commenced for both child projects.	Design will be completed and procurement for construction will commence for both child projects.
4.6	Replacement of Tamiami Canal Aerial Crossing FMs at NW 37th Avenue	This Tamiami Force Main Replacement project is being performed in accordance with Paragraph 19(i) and Appendix D. This project replaces corroded twin 24 inch FM's crossing the Tamiami Canal at NW 37 Avenue, just south of NW 21 Street in the Tamiami area. The twin 24-inch force mains have experienced failures and are in need of replacement.	Construction was completed on May 27, 2014 ahead of the October 29, 2016 CD compliance date.	N/A
4.7	Rehabilitation of 18 DIP FM in Miami Lakes	This Miami Lakes Force Main Replacement project is being replaced in accordance with Paragraph 19(i) and Appendix D. The purpose of this project is to replace severely corroded 18-inch pipe that has had multiple failures. It replaces one mile of 18 inch DIP FM located at NW 60 Avenue and NW 138 Street.	Procurement for construction commenced.	Procurement for construction will continue.
4.8	Rehabilitation of 54 inch PCCP FM in the City of Miami	This City of Miami Force Main Rehabilitation project is being performed pursuant to Paragraph 19(i) and Appendix D. A section of 54-inch force main in the City of Miami is deteriorated and has experienced failures. The project involves the rehabilitation of 2 miles of 54 inch PCCP FM by cured-in-place liner located on NW 2 Street between NW 67 Avenue and NW 37 Avenue in the City of Miami.	This project is being performed under a design-build delivery method. This project was in the planning phase.	Design will commence and be completed, and procurement for construction will commence.

Table A-4.1 Wastewater Collection and Transmission Lines

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
4.9	Replace Approximately 30 miles of AC FM Transmission System	This Force Main Transmission System Replacement project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to replace asbestos cement force mains that have experienced failures and are difficult to locate in the field. This includes approximately 30 miles of AC FM transmission system.	See Table A-4.2.	See Table A-4.2.
4.10	Opa-Locka Airport FM Replacement	The Opa-Locka Airport PCCP Force Main Replacement project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of 2.5 miles of 48" PCCP force main running along the Biscayne Canal between NW 57th Avenue & NW 32nd Avenue. The length has been determined to have approximately one quarter of its line segments distressed based on in-situ condition assessments.	This project is being performed under a design-build delivery method. Design commenced.	Design will continue and procurement for construction will commence.

Table A-4.2 Project 4.9 Replacement of Approximately 30 Miles AC FM Transmission System

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
1	12	SW 112 Ave. & SW 104 St.	SW 112 Ave. & SW 112 St.	This project was in the planning phase.	Planning will continue, design will commence and be completed and permitting will commence.
2	8	NE 14 Ave. & 191 St.	NE 14 Ave. & Miami Gardens Dr.	This project was in the design phase.	Design will be completed, permitting will commence and be completed and procurement for construction will commence.
3	6	PS 356	NW 53 Ct. & NW 195 Dr.	This project was completed on August 11, 2014.	N/A
4	8	NW 53 Ct. & NW 195 Dr.	NW 52 Ct. & NW 191 Dr.	This project was completed on August 11, 2014.	N/A
5	10	NW 52 Ct. & NW 191 St.	NW 52 Ct. & NW 188 Dr.	This project was completed on August 11, 2014.	N/A
6	6	PS 362	NW 52 Ct. & NW 190 Dr.	This project was in the planning phase.	Design and permitting will commence and be completed. Procurement will commence.
7	10	NW 52 Ct. & NW 190 St.	NW 52 Ave. & NW 189 Ter.	This project was in the planning phase.	Design and permitting will commence and be completed. Procurement will commence.
8	10	NW 52 Ct. & NW 188 St.	NW 52 Ave. & NW 183 St.	This project was completed on August 11, 2014.	N/A
9	8	PS 385	NW 29 Ct. & NW 199 St.	This project was in the procurement phase.	Procurement will be completed and construction will commence.
10	12	NW 29 Ct. & NW 199 St.	NW 30 Pl. & NW 199 St.	This project was in the procurement phase.	Procurement will be completed and construction will commence.

Table A-4.2 Project 4.9 Replacement of Approximately 30 Miles AC FM Transmission System

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
11	8	NW 29 Ct. & NW 199 St.	NW 28 Ave. & NW 199 St.	This project was in the procurement phase.	Procurement will be completed and construction will commence.
12	6	PS 374	NW 28 Ave. & NW 199 St.	This project was in the procurement phase.	Procurement will be completed and construction will commence.
13	12	NW 30 Pl. & NW 199 St.	NW 37 Ave. & NW 199 St.	This project was in the procurement phase.	Procurement will be completed and construction will commence.
14	8	PS 368	NW 37 Ave. & NW 194 Ter.	This project was in the procurement phase.	Procurement will be completed and construction will commence.
15	4	PS 375	NW 29 Pl. and NW 191 St.	This project was in the procurement phase.	Procurement will be completed and construction will commence.
16	10	PS 427	NW 29 Pl. and NW 191 St.	This project was in the procurement phase.	Procurement will be completed and construction will commence.
17	10	NW 29 Pl. and NW 191 St.	NW 32 Ave. & NW 191 St.	This project was in the procurement phase.	Procurement will be completed and construction will commence.
18	6	PS 376	NW 32 Ave. & NW 191 St.	This project was in the procurement phase.	Procurement will be completed and construction will commence.
19	6	PS 377	NW 36 Ave. & NW 183 St.	This project was in the procurement phase.	Procurement will be completed and construction will commence.
20	8	PS 366	NW 42 Pl. & NW 199 Ter.	This project was in the planning phase.	Design will commence and be completed and permitting will commence.

Table A-4.2 Project 4.9 Replacement of Approximately 30 Miles AC FM Transmission System

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
21	10	NW 42 Pl. & NW 199 Ter.	NW 39 Ct. & NW 199 St.	This project was in the planning phase.	Design will commence and be completed and permitting will commence.
22	6	PS 358	PS 352	This project was in the planning phase.	Design will commence and be completed and permitting will commence.
23	8	PS 1022	PS 1072	This project was in the planning phase.	Planning will continue.
24	8	PS 353	NW 48 Ct. & NW 178 Ter.	This project was in the planning phase.	Planning will continue and design will commence and be completed, and permitting will commence.
25	10	NW 52 Ave. & NW 173 Dr.	NW 52 Ave. & NW 178 Ter.	This project was in the planning phase.	Planning will continue and design will commence and be completed, and permitting will commence.
26	6	PS 354	NW 52 Ave. & NW 173 Dr.	This project was in the planning phase.	Planning will continue and design will commence and be completed, and permitting will commence.
27	4	Pvt. PS @ SW 149 Ter.	MH 14 @ PS 719	This project was in the planning phase.	Planning will continue.
28	8	PS 786	MH 5 @ PS 785	This project was in the planning phase.	Planning will continue and design will commence and be completed, and permitting will commence.
29	12	PS 811	SW 107 Ave. & SW 76 St.	This project was in the design phase.	Design will continue, permitting will commence and be completed, and procurement will commence.

Table A-4.2 Project 4.9 Replacement of Approximately 30 Miles AC FM Transmission System

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
30	12	PS 811	SW 102 Ave. & SW 81 St.	This project was in the design phase.	Design will continue, permitting will commence and be completed, and procurement will commence.
31	10	PS 812	SW 102 Ave. & SW 84 St.	This project was in the design phase.	Design will continue, permitting will commence and be completed, and procurement will commence.
32	12	SW 107 Ave. & SW 104 St.	SW 107 Ave. & Kendale Blvd.	This project was in the planning phase.	Planning will be completed, and design will commence and be completed, and permitting will commence and be completed, and procurement will commence.
33	4	Pvt. PS @ 114 Ave. & SW 169 St.	MH 59 @ SW 103 Ave.	This project was in the planning phase.	Planning will continue.
34	10	PS 709	Homestead Ave. & Kumquat St.	This project was in the planning phase.	Planning will continue.
35	6	SW 110 Ave. & Banyan St.	SW 95 Ave. & SW Banyan St.	This project was in the planning phase.	Planning will continue.
36	4	PS 721	US1 & Banyan St.	This project was in the planning phase.	Planning will continue.
37	4	PS 749	PS 731	This project was in the planning phase.	Planning will continue.
38	4	PS 747	US1 & East Indigo St.	This project was in the planning phase.	Planning will continue.
39	10	SW 102 Ave. & SW 176 St.	Homestead Ave. & West Jessamine	This project was in the planning phase.	Planning will continue.
40	8	PS 745	SW 102 Ave. & SW 175 St.	This project was in the planning phase.	Planning will continue.

Table A-4.2 Project 4.9 Replacement of Approximately 30 Miles AC FM Transmission System

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
41	4	PS 731	SW Duval Ave. & West Indigo St.	This project was in the planning phase.	Planning will continue.
42	10	SW 102 Ave. & West Jessamine	US1 & SW 184 St.	This project was in the planning phase.	Planning will continue.
43	12	Homestead Ave. & 180 St.	Railroad St. & SW 184 St.	This project was in the planning phase.	Planning will continue.
44	8	PS 810	SW 118 Pl. & SW 72 St.	This project was in the planning phase.	Planning will be completed, design will commence and be completed, and permitting will commence.
45	12	PS 793	SW 118 Pl. & SW 72 St.	This project was in the planning phase.	Planning will be completed, design will commence and be completed, and permitting will commence.
46	6	PS 724	SW 106 Ave. & SW 155 St.	This project was in the planning phase.	Planning will continue.
47	8	PS 869	SW 122 Ave. & SW 88 St.	This project was in the planning phase.	Planning will be completed, design will commence and be completed, and permitting will commence.
48	10	PS 1017	SW 123 Pl. & SW 268 St.	This project was in the planning phase.	Planning will continue.
49	10	PS 1029	SW 132 Ave. & 268 St.	This project was in the planning phase.	Planning will continue.
50	8	SW 137 Ave. & SW 268 St.	SW 128 Ave. & 268 St.	This project was in the planning phase.	Planning will continue.
51	10	PS 1028	SW 137 Ave. & 288 St.	This project was in the planning phase.	Planning will continue.
52	10	PS 1027	SW 132 Ave. & 280 St.	This project was in the planning phase.	Planning will continue.
53	8	PS 1018	MH 44A @ SW 132 Ave.	This project was in the planning phase.	Planning will continue.

Table A-4.2 Project 4.9 Replacement of Approximately 30 Miles AC FM Transmission System

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
54	12	SW 137 Ave. & SW 72 St.	SW 142 Ave. & SW 72 St.	This project was in the planning phase.	Design will commence.
55	12	SW 142 Ave. & SW 72 St.	SW 147 Ave. & SW 72 St.	This project was in the planning phase.	Design will commence.
56	8	PS 864	SW 147 Ave. & SW 72 St.	This project was in the planning phase.	Design will commence.
57	8	SW 142 Ave. & Kendale Lakes Blvd.	SW 140 Ave. & Kendale Lakes Blvd.	This project was in the planning phase.	Design will commence.
58	10	SW 140 Ave. & Kendale Lakes Blvd.	SW 137 Ave. & Kendale Lakes Blvd.	This project was in the planning phase.	Design will commence.
59	12	SW 137 Ave. & Kendale Lakes Blvd.	SW 137 Ave. & SW 81 St.	This project was in the planning phase.	Design will commence.
60	8	PS 1013	PS 1012	This project was in the planning phase.	Planning will continue.
61	10	PS 1012	SW 144 Ave. & SW 280 St.	This project was in the planning phase.	Planning will continue.
62	8	PS 1011	SW 144 Ct. & SW 280 St.	This project was in the planning phase.	Planning will continue.
63	10	SW 147 Ave. & SW 288 St.	SW 134 Pl. & SW 288 St.	This project was in the planning phase.	Planning will continue.
64	6	PS 1009	SW 147 Ave. & SW 296 St.	This project was in the planning phase.	Planning will continue.
65	6	PS 1006	PS 1005	This project was in the planning phase.	Planning will continue.
66	8	PS 1002	SW 152 & SW 304 St.	This project was in the planning phase.	Planning will continue.

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
5.1	Upgrade of PS No. 0418	The Upgrade of PS No. 0418 project is being performed pursuant to Paragraph 19(i) and Appendix D. The station has reached the end of its useful life and a booster station is needed to relieve pressures in the Doral area. The purpose of this project is to convert PS No. 0418 into a booster type station.	Permitting commenced.	Permitting will be complete and procurement will commence.
5.2	Upgrade of PS No. 0691	The Upgrade of PS No. 0691 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life and capacity increase is required to handle increased Homestead flows. This project involves the replacement of pumping and electrical equipment in PS No. 0691.	This project is being performed under a design-build delivery method. Design commenced.	Design will continue.
5.3	Upgrade of PS No. 0692	The Upgrade of PS No. 0692 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life and capacity increase is required to handle increased Homestead flows. This project involves the replacement of pumping and electrical equipment in PS No. 0692.	This project is being performed under a design-build delivery method. Design commenced.	Design will continue and procurement for construction will commence.
5.4	Replacement of Switchgear PS No. 0414	The Replacement of Switchgear PS No. 0414 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life. This project involves the replacement of electrical switchgear in PS No. 0414.	This project was in the planning phase.	Design will commence.
5.5	Replacement of Switchgear and Rehabilitation of Wet Well PS No. 0415	The Replacement of Switchgear and Rehabilitation of Wet Well PS No. 0415 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life and the wet well structure is badly deteriorated due to H ₂ S. This project involves the replacement of electrical switchgear and the rehabilitation of the wet well to include an odor control unit.	This project was in the planning phase.	Design will commence.
5.6	Replacement of Switchgear PS No. 0416	The Replacement of Switchgear PS No. 0416 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life. This project involves the replacement of electrical switchgear in PS No. 0416.	This project was in the planning phase.	Design will commence.

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
5.7	Replacement of Switchgear and Rehabilitation of Wet Well PS No. 0417	The Replacement of Switchgear and Rehabilitation of Wet Well PS No. 0417 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life and the wet well structure is badly deteriorated due to H ₂ S. This project involves the replacement of electrical switchgear and the rehabilitation of the wet well of PS No. 0417 to include an odor control unit.	This project was in the planning phase.	Design will commence.
5.8	Replacement of Electrical and Mechanical Equipment PS No 0107	The Replacement of Electrical and Mechanical Equipment PS No. 0107 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment is beyond of the PS is beyond its useful life and parts are not readily available for the load cell type controllers. This project involves the replacement of pumping and electrical equipment of PS No. 0107.	This project was in the planning phase.	Planning will continue and design will commence.
5.9	Replacement of Pumping and Electrical Equipment PS No. 0301	The Replacement of Pumping and Electrical Equipment PS No. 0301 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment is beyond its useful life due to the saltwater environment. This project involves the replacement of pumping and electrical equipment of PS No. 0301 to include a generator.	This project was in the design phase.	Design will continue.
5.10	Upgrade of PS No. 0488	The Upgrade of PS No. 0488 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment is beyond its useful life. This project involves the conversion of the PS a submersible type station.	This project was in the planning phase.	Planning will continue and design will commence.
5.11	Installation of 60 inch FM from Kendall Dr. to PS No. 0536	The Installation of 60 inch FM from Kendall Dr. to PS No. 0536 project is being performed pursuant to Paragraph 19(i) and Appendix D. Currently, there is a pressure differential and increase flow transfer between PS No. 0559 and PS No. 0536. The purpose of this project is to install a 60 inch FM from Kendall Dr. to PS No. 0536 to eliminate the 42 inch reduction in the 60 inch FM.	This project is being performed under a design-build delivery method. Design commenced.	Design and procurement for construction will commence.
5.12	Replacement of Switchgear PS No. 0187	The Replacement of Switchgear PS No. 0187 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment is beyond of the PS is beyond its useful life and parts are not readily available. This project involves the replacement of the Anvic Drive with a VFD.	This project was in the planning phase.	Planning will continue and design will commence.

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
5.13	Refurbish Emergency Generators and Controls at Regional PSs	The Refurbish Emergency Generators and Controls at regional PSs project is being performed pursuant to Paragraph 19(i) and Appendix D. The emergency backup generators are unreliable due to the age of the controllers and the condition of the wiring on the engines. The purpose of this project is to refurbish emergency generators and controls at regional PSs.	This project was in the procurement phase.	Procurement will continue and be completed and construction will commence.
5.14	Upgrade of PSs Nos. 0086 and 0492	The Upgrade of Pump Stations No. 0086 and 0492 project was performed and completed pursuant to Paragraph 19(i) and Appendix D. The project was designed to increase reliability and extend the service life of the pump station. The pump stations also exceeded the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. For this project, Pump Station No. 0086 was converted to a submersible type pump station with an existing wet well and the electrical controls and instrumentation were upgraded. The electrical controls and instrumentation for Pump Station No. 0492 were upgraded. It was also rehabilitated to a new submersible type pump station.	PS No. 0086 was completed on July 15, 2013 and PS No. 0492 on April 25, 2013. Both were completed ahead of the December 31, 2013 CD compliance date.	N/A

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
5.15	Upgrade of PSs Nos. 0065, 0201, 0334, 0374, 0607	<p>The Upgrade of PSs No. 0065, 0201, 0334, 0374, 0607 project is being performed pursuant to Paragraph 19(i) and Appendix D. The pump stations exceed the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. The PS No. 0065 is being upgraded to include new submersible pumps in the existing dry well, installation of larger suction and discharge piping, and an electrical upgrade. The PS No. 0201 is being upgraded to include new submersible pumps, installation of a new valve box, an electrical upgrade and 48 I/I repairs for a flow of 176 gpm. The PS No. 0334 project involves the conversion to a new submersible type pump station, an electrical upgrade and the installation of 2,200 L.F. of new 8 inch FM. The PS No. 0374 is being upgraded to include new submersible pumps, installation of a new valve box, an electrical upgrade and the installation of 320 L.F. of new 8 inch FM. The PS No. 0607 project involves the conversion to a new submersible type pump station and an electrical upgrade.</p>	<p>PS No. 0374 was certified to be in compliance on January 21, 2014 ahead of the CD compliance date of December 31, 2015. The PS was certified using the criteria set forth in Paragraph 18(a) and Appendix A(A)(iii). The upgrades for this PS consisted of station maintenance and I/I repairs in the station collection system. PS No. 0065 was in the design phase. PSs Nos. 0201, 0334 and 0607 were in the procurement phase.</p>	<p>PS No. 0065 will continue and complete the design phase, permitting will commence and be completed and procurement will commence. PSs Nos. 0201 and 0334 will commence construction. Procurement on PS No. 0607 will be completed and construction will commence.</p>
5.16	Upgrade of PSs Nos. 0198, 0437, 0466, 0680	<p>The Upgrade of PSs No. 0198, 0437, 0466, 0680 project is being performed pursuant to Paragraph 19(i) and Appendix D. The pump stations exceed the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. The PS No. 0198 is being upgraded to include new submersible pumps in the existing dry well, an electrical upgrade and flow isolation and I/I repairs if necessary. The PSs No. 0437 and 0466 are being upgraded to include new submersible pumps, installation of a new valve box, an electrical upgrade. The PS No. 0680 is being upgraded to include new submersible pumps, new valves above ground and an electrical upgrade.</p>	<p>This project was in the planning phase.</p>	<p>Planning/validation phase will continue and design will commence for upgrades to all PSs.</p>

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
5.17	Upgrade of PSs Nos. 0037, 0351, 0370, 0403	The Upgrade of PSs No. 0037, 0351, 0370, 0403 project is being performed pursuant to Paragraph 19(i) and Appendix D. The pump stations exceed the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. The PS No. 0037 project involves the conversion to a new submersible type pump station and an electrical upgrade. The PS No. 0351 is being upgraded to include new submersible pumps, installation of a new valve box, an electrical upgrade and the replacement of 360 L.F. of 4 inch with 8 inch FM. The PS No. 0370 project involves the conversion to a new submersible type pump station, an electrical upgrade and the installation of 760 L.F. of new 8 inch FM. The PS No. 0403 project involves the conversion to a new submersible type pump station, an electrical upgrade and the installation of an on-site generator.	This project was in the planning phase.	Planning validation phase will continue.
5.18	Upgrade of PSs Nos. 0441, 0491, 0710, 0827, 0852, 1236	The Upgrade of PSs No. 0441, 0491, 0710, 0827, 0852, 1236 project is being performed pursuant to Paragraph 19(i) and Appendix D. The pump stations exceed the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. The PS No. 0441 project involves the conversion to a new submersible type pump station and an electrical upgrade. PS No. 0491 is undergoing flow isolation and I/I repairs if necessary. The PS No. 710 project involves the conversion to a new submersible type pump station, an electrical upgrade and the installation of 1,800 L.F. of new 8 inch FM. The PS No. 0827 is being upgraded to include larger submersible pumps, installation of a new valve vault, an electrical upgrade and the replacement of 1,600 L.F. of 4 inch FM with 8 inch FM. The PS No. 0852 project involves the conversion to a new submersible type pump station and an electrical upgrade. PS No. 1236 is undergoing 300 I/I repairs to achieve a flow of 130 gpm.	This project was in the planning phase.	Planning/validation phase will continue.
5.19	SCADA RTU Upgrades	The SCADA RTU Upgrades project is being performed pursuant to Paragraph 19(i) and Appendix D. The current radio communication system is obsolete and it is difficult to procure parts. The purpose of the project is to upgrade the SCADA remote telemetry units for 635 pump stations to maintain operational sustainability.	Construction on RTU upgrades were ongoing.	Construction will continue.

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Appendix B Project Schedules Gantt Chart

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Activity Name	Start	Finish	2014						2015						
			Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
WASD Consent Decree Baseline Schedule Revision 0 - Deceml	12-Dec-10 A	06-Jun-28													
0. General Compliance Activities	06-Jun-14 A	06-Jun-28													
Reporting Requirements	31-Dec-14	01-May-15													
Quarterly Reports	31-Dec-14	01-May-15													
2014 Quarterly Report No 4	31-Dec-14*	02-Feb-15													
2015 Quarterly Report No 1	31-Mar-15*	01-May-15													
Semi Annual Reports	31-Dec-14	02-Feb-15													
2014 Semi Annual Report No 2	31-Dec-14	02-Feb-15													
Annual Report	31-Dec-14	02-Mar-15													
2014 Annual Report	31-Dec-14	02-Mar-15													
Program Management/Construction Management Support	06-Jun-14 A	06-Jun-28													
Program Management/Construction Management	06-Jun-14 A	06-Jun-28													
1. South District WWTP	19-Nov-13 A	07-Apr-22													
1.2 Oxygen Production	01-Feb-15	23-Dec-15													
Engineering Design - SD Oxygen Production	01-Feb-15	23-Dec-15													
Basis of Design Report (BODR) - SD Oxygen Production	01-Feb-15	29-May-15													
BODR Review Period - SD Oxygen Production	30-May-15	12-Jun-15													
60% Design Submittal - SD Oxygen Production	13-Jun-15	20-Sep-15													
Perform VE Study - SD Oxygen Production	13-Jun-15	03-Jul-15													
1.5 Effluent Pump Station	19-Nov-13 A	07-Apr-22													
Engineering Design - SD Effluent Pump Station	19-Nov-13 A	10-Jul-17													
Permitting - SD Effluent Pump Station	19-Nov-13 A	10-Jul-18													
Procurement - SD Effluent Pump Station	18-Feb-14 A	10-Jul-19													
Construction - SD Effluent Pump Station	20-May-14 A	07-Apr-22													
1.5 (1) Effluent Pump Station Electrical Equipment (Pumps 7-9)	20-May-14 A	30-Sep-15													
Fabricate & Deliver Equipment - SD Effluent Pump Station Electric	20-May-14 A	18-Jan-15													
Install Electrical Equipment- SD Effluent Pump Station Electrical Ec	19-Jan-15	30-Sep-15													
1.6 Gravity Sludge Thickeners	03-Jul-14 A	18-Aug-18													
Engineering Design - SD Gravity Sludge Thickeners	03-Jul-14 A	18-Aug-18													
Technical Evaluation of Alternates - SD Gravity Sludge Thickeners	03-Jul-14 A	07-May-15													
1.7 Digesters and Control Building	03-Jul-14 A	15-Jun-16													
Engineering Design - SD Digesters & Control Building	03-Jul-14 A	15-Jun-16													
Basis of Design Report (BODR) - SD Digesters & Control Building	03-Jul-14 A	06-Mar-15													



**MIAMI-DADE WATER & SEWER DEPARTMENT
CONSENT DECREE PROGRAM SCHEDULE
SIX MONTH SCHEDULE**

Date	Revision	Che...	App...
14-Jul-14	Revision 0		
22-Aug-14	July 2014 Update		
13-Jan-15	December 2014 Update		

Activity Name	Start	Finish	2014						2015					
			Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
			Engineering Design - CD Headworks/Grit Basin Plant 1	06-Oct-14 A	31-Oct-15									
Basis of Design Report - CD Headworks/Grit Basin Plant 1	06-Oct-14 A	25-Feb-15												
Negotiate Final Design - CD Headworks/Grit Basin Plant 1	31-Dec-14	28-Feb-15												
30% Design Submittal - CD Headworks/Grit Basin Plant 1	26-Feb-15	16-May-15												
30% Design Review - CD Headworks/Grit Basin Plant 1	17-May-15	30-May-15												
Perform VE Study - CD Headworks/Grit Basin Plant 1	17-May-15	06-Jun-15												
60% Design Submittal - CD Headworks/Grit Basin Plant 1	31-May-15	18-Aug-15												
2.4 Headworks/Grit Basin Plant 2	06-Oct-14 A	30-Nov-15												
Engineering Design - CD Headworks/Grit Basin Plant 2	06-Oct-14 A	30-Nov-15												
Basis of Design Report - CD Headworks/Grit Basin Plant 2	06-Oct-14 A	25-Feb-15												
Negotiate Final Design - CD Headworks/Grit Basin Plant 2	31-Dec-14	28-Feb-15												
30% Design Submittal - CD Headworks/Grit Basin Plant 2	26-Feb-15	16-May-15												
30% Design Review - CD Headworks/Grit Basin Plant 2	17-May-15	30-May-15												
Perfrom VE Study - CD Headworks/Grit Basin Plant 2	17-May-15	06-Jun-15												
60% Design Submittal - CD Headworks/Grit Basin Plant 2	31-May-15	28-Aug-15												
2.6 Oxygenation Trains Plant 2	02-Sep-13 A	30-Jun-15												
Procurement (Mixers) - CD Oxygenation Trains Plant 2	02-Sep-13 A	31-Jan-15												
Install Mixer Electrical Equip. & Expand Structure - CD Oxygenation T	02-Feb-15*	30-Jun-15												
2.13 Gravity Sludge Thickeners Plant 2	11-Jun-14 A	17-May-16												
Engineering Design - CD Gravity Sludge Thickeners Plant 2	11-Jun-14 A	17-May-16												
Complete Technical Memorandum - CD Gravity Sludge Thickeners PI	11-Jun-14 A	31-Jan-15												
Basis of Design Report (BODR) - CD Gravity Sludge Thickeners Plant 2	02-Apr-15	30-Jul-15												
2.15 Digesters Plant 2	11-Jun-14 A	13-Feb-16												
2.15.1 Cluster 1	11-Jun-14 A	28-Sep-15												
Engineering Design - CD Digesters Plant 2 Cluster 1	11-Jun-14 A	28-Sep-15												
Basis of Design Report (BODR) - CD Digesters Plant 2 Cluster 1	11-Jun-14 A	19-Jan-15												
Owner Pre-Purchase Digester Cover (1) - CD Digesters Plant 2 Cl	14-Aug-14 A	17-Apr-15												
BODR Review Period - CD Digesters Plant 2 Cluster 1	20-Jan-15	02-Feb-15												
NTP for Remaining Design - CD Digesters Plant 2 Cluster 1	03-Feb-15													
30% Design Submittal - CD Digesters Plant 2 Cluster 1	03-Feb-15	23-Apr-15												
30% Design Review - CD Digesters Plant 2 Cluster 1	24-Apr-15	07-May-15												
Perform VE Study - CD Digesters Plant 2 Cluster 1	24-Apr-15	14-May-15												



MIAMI-DADE WATER & SEWER DEPARTMENT CONSENT DECREE PROGRAM SCHEDULE SIX MONTH SCHEDULE

Date	Revision	Che...	App...
14-Jul-14	Revision 0		
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Activity Name	Start	Finish	2014						2015						
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			60% Design Submittal - CD Digesters Plant 2 Cluster 1	08-May-15	26-Jul-15										
2.15.4 Cluster 4	19-Mar-15	13-Feb-16													
Engineering Design - CD Digesters Plant 2 Cluster 4	19-Mar-15	13-Feb-16													
Basis of Design Report (BODR) - CD Digesters Plant 2 Cluster 4	19-Mar-15	07-May-15													
BODR Review Period - CD Digesters Plant 2 Cluster 4	08-May-15	21-May-15													
30% Design Submittal - CD Digesters Plant 2 Cluster 4	22-May-15	09-Aug-15													
2.17 Chlorination Facilities	01-Oct-13 A	05-Nov-15													
Engineering Design - CD Chlorination Facilities	01-Oct-13 A	05-Nov-15													
Basis of Design Report (BODR) - CD Chlorination Facilities	19-Jan-15*	21-May-15													
BODR Review Period - CD Chlorination Facilities	22-May-15	04-Jun-15													
30% Design Submittal - CD Chlorination Facilities	05-Jun-15	23-Aug-15													
2.19 Co-Gen Improvements	22-Nov-12 A	31-Mar-19													
Engineering Design - CD Co-Gen Improvements	22-Nov-12 A	06-Feb-16													
Permitting - CD Co-Gen Improvements	12-Mar-13 A	04-Aug-16													
Procurement - CD Co-Gen Improvements	12-Mar-14 A	04-Aug-17													
Construction - CD Co-Gen Improvements	30-Jul-14 A	31-Mar-19													
2.19 (1) Co-Gen Generator Replacement	30-Jul-14 A	31-Jul-15													
Construction - CD Co-Gen Generator Replacement	30-Jul-14 A	31-Jul-15													
2.19 (2) Co-Gen Biogas Treatment Facilities	01-Mar-15	06-Feb-16													
Engineering Design - CD Co-Gen Biogas Treatment Facilities	01-Mar-15	06-Feb-16													
Basis of Design Report (BODR) - CD Odor Control Systems	01-Mar-15	28-Jun-15													
BODR Review Period - CD Co-Gen Biogas Treatment Facilities	29-Jun-15	12-Jul-15													
2.22 Pump Station No.2	01-Mar-15	13-Mar-16													
Engineering Design - CD Pump Station No. 2	01-Mar-15	13-Mar-16													
Basis of Design Report (BODR) - CD Pump Station No. 2	01-Mar-15	05-Jun-15													
BODR Review Period - CD Pump Station No. 2	06-Jun-15	19-Jun-15													
30% Design Submittal - CD Pump Station No. 2	20-Jun-15	07-Sep-15													
2.23 O2 Plant Process Controls Phase 2	02-Jun-14 A	24-Jun-16													
Procurement - CD O2 Plant Process Controls Phase 2	02-Jun-14 A	01-May-15													
Construction - CD O2 Plant Process Controls Phase 2	02-May-15	24-Jun-16													
2.24 Gas Monitoring and Alarms	07-Mar-15	05-Sep-15													
Engineering Design - CD Gas Monitoring and Alarms	07-Mar-15	05-Sep-15													
2.26 Rehabilitation of Walkways and Stairways	01-Oct-13 A	27-Sep-27													



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Activity Name	Start	Finish	2014						2015					
			Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Construction - CD Rehab of Walkways & Stairways	01-Oct-13 A	27-Sep-27	[Gantt bar spanning Oct 2013 to Sep 2014]											
2.27 Oxygen Production	02-Mar-15	24-Apr-16	[Gantt bar spanning Mar 2015 to Apr 2016]											
Engineering Design - CD Oxygen Production	02-Mar-15	24-Apr-16	[Gantt bar spanning Mar 2015 to Apr 2016]											
Basis of Design Report (BODR) - CD Oxygen Production	02-Mar-15	09-Jun-15	[Gantt bar spanning Mar 2015 to Jun 2015]											
BODR Review Period - CD Oxygen Production	10-Jun-15	23-Jun-15	[Gantt bar spanning Jun 2015]											
30% Design Submittal - CD Oxygen Production	24-Jun-15	19-Sep-15	[Gantt bar spanning Jun 2015 to Sep 2015]											
3. North District WWTP	21-Apr-14 A	01-Mar-24	[Gantt bar spanning Apr 2014 to Mar 2015]											
3.1 Headworks and Sludge Degritting & Transfer	11-Jun-14 A	15-Mar-16	[Gantt bar spanning Jun 2014 to Mar 2016]											
Permitting - ND Headworks & Sludge Degritting	11-Jun-14 A	16-Mar-15	[Gantt bar spanning Jun 2014 to Mar 2015]											
Procurement - ND Headworks & Sludge Degritting	16-Feb-15*	12-Nov-15	[Gantt bar spanning Feb 2015 to Nov 2015]											
Owner Pre-Purchase Screens - ND Headworks & Sludge Degritting	17-Mar-15*	15-Mar-16	[Gantt bar spanning Mar 2015 to Mar 2016]											
Owner Pre-Purchase Electrical Equip. - ND Headworks & Sludge Deg	17-Mar-15*	10-Jan-16	[Gantt bar spanning Mar 2015 to Jan 2016]											
3.2 Primary Clarifiers and Odor Control	03-Sep-14 A	04-Dec-16	[Gantt bar spanning Sep 2014 to Dec 2016]											
Engineering Design - ND Primary Clarifiers & Odor Control	03-Sep-14 A	04-Dec-16	[Gantt bar spanning Sep 2014 to Dec 2016]											
Basis of Design Report (B&C) - ND Primary Clarifiers & Odor Control	03-Sep-14 A	27-Aug-15	[Gantt bar spanning Sep 2014 to Aug 2015]											
3.5 Secondary Clarifiers	28-Aug-14 A	01-Mar-24	[Gantt bar spanning Aug 2014 to Mar 2015]											
Engineering Design - ND Secondary Clarifiers	28-Aug-14 A	14-Aug-16	[Gantt bar spanning Aug 2014 to Aug 2016]											
Procurement - ND Secondary Clarifiers	03-Oct-14 A	14-Aug-18	[Gantt bar spanning Oct 2014 to Aug 2018]											
Construction - ND Secondary Clarifiers	01-Apr-15	01-Mar-24	[Gantt bar spanning Apr 2015 to Mar 2016]											
3.5 (1) Secondary Clarifiers (Replace Mechanisms #3, 6 & 8)	28-Aug-14 A	25-Jan-16	[Gantt bar spanning Aug 2014 to Jan 2016]											
Engineering Design - ND Secondary Clarifiers (BODR)	28-Aug-14 A	31-Mar-15	[Gantt bar spanning Aug 2014 to Mar 2015]											
Procurement - ND Secondary Clarifiers (Replace Mechanisms #3,	03-Oct-14 A	31-Mar-15	[Gantt bar spanning Oct 2014 to Mar 2015]											
Construction - ND Secondary Clarifiers (Replace Mechanisms #3,	01-Apr-15	25-Jan-16	[Gantt bar spanning Apr 2015 to Jan 2016]											
3.5 (2) Secondary Clarifiers (Remaining Scope of Work)	28-Aug-14 A	14-Aug-16	[Gantt bar spanning Aug 2014 to Aug 2016]											
Engineering Design - ND Secondary Clarifiers (Remaining Scope)	28-Aug-14 A	14-Aug-16	[Gantt bar spanning Aug 2014 to Aug 2016]											
Basis of Design Report (BODR) - ND Secondary Clarifiers	28-Aug-14 A	31-Mar-15	[Gantt bar spanning Aug 2014 to Mar 2015]											
Negotiate Scope & Cost with MWH - ND Secondary Clarifiers (Rer	01-Apr-15	29-Jun-15	[Gantt bar spanning Apr 2015 to Jun 2015]											
3.6 Disinfection	21-Apr-14 A	20-Jul-16	[Gantt bar spanning Apr 2014 to Jul 2016]											
Engineering Design - ND Disinfection	21-Apr-14 A	20-Jul-16	[Gantt bar spanning Apr 2014 to Jul 2016]											
Review Existing Design for Storm Surge & Code Changes - ND Disinf	21-Apr-14 A	16-Jan-15	[Gantt bar spanning Apr 2014 to Jan 2015]											
Revise Design for Code and Storm Surge Changes - ND Disinfection 1	17-Apr-15	20-Jul-16	[Gantt bar spanning Apr 2015 to Jul 2016]											
3.7 Effluent Disposal	16-Jun-14 A	24-Jun-17	[Gantt bar spanning Jun 2014 to Jun 2017]											



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			Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Engineering Design - ND Effluent Disposal	12-Aug-14 A	24-Jun-16												
Permitting - ND Effluent Disposal	01-Jan-15	24-Jun-17												
3.7 (1) Deep Injection Well Pump Station	16-Jun-14 A	29-Jan-16												
Owner Pre-Purchase Elect. Equip. - DIW Pump Station	16-Jun-14 A	29-Jan-16												
Engineering Design - DIW Pump Station	12-Aug-14 A	30-Apr-15												Engineering
Permitting - DIW Pump Station	01-Jan-15	29-Jun-15												
3.7 (2) Ocean Outfall Pump Station	29-Jan-15	24-Jun-16												
Engineering Design - ND Ocean Outfall Pump Station	29-Jan-15	24-Jun-16												
Basis of Design Report (BODR) - ND Ocean Outfall Pump Station	29-Jan-15	28-May-15												Basis
BODR Review Period - ND Ocean Outfall Pump Station	29-May-15	18-Jun-15												E
30% Design Submittal - ND Ocean Outfall Pump Station	19-Jun-15	16-Oct-15												
3.8 Plant Wide Electrical	01-May-14 A	20-Jan-17												
Engineering Design - ND Plant Wide Electrical	01-May-14 A	20-Jan-17												
Basis of Design Report (BODR) - ND Plant Wide Electrical	01-May-14 A	30-Jan-15												Basis of Design Report (BODR)
Negotiate Remaining Design Scope & Fee - ND Plant Wide Electrical	31-Jan-15	30-Apr-15												Negotiate F
30% Design Submittal - ND Plant Wide Electrical	01-May-15	28-Aug-15												
3.9 Flood Mitigation	01-May-14 A	26-Nov-15												
Engineering Design - ND Flood Mitigation	01-May-14 A	30-May-15												Engi
Permitting - ND Flood Mitigation	31-May-15	26-Nov-15												
4. Wastewater Collection & Transmission Line	28-Aug-12 A	27-Sep-27												
4.1 Collection System I/I Repairs	01-Oct-13 A	27-Sep-27												
Construction - Collection System I/I Repair	01-Oct-13 A	27-Sep-27												
4.3 Government Cut FM - Phase 3	23-Jan-14 A	27-May-16												
Final Design (Design-Builder) - Government Cut FM Phase 3	23-Jan-14 A	10-Mar-15												Final Design (Design-
Permitting - Government Cut FM Phase 3	02-May-14 A	14-Mar-15												Permitting - Governm
Construction - Government Cut FM Phase 3	23-May-14 A	27-May-16												
4.4 North Dade 72 inch PCCP FM Rehabilitation	03-Feb-14 A	26-Oct-15												
Procurement - North Dade 72" PCCP FM Rehab	03-Feb-14 A	28-Feb-15												Procurement - North Da
Final Design (Design-Builder) - North Dade 72" PCCP FM Rehab	01-Mar-15	26-Oct-15												
4.5 South Dade 54 inch PCCP FM Rehabilitation	05-Aug-14 A	22-Sep-16												
Engineering Design (DCP) - South Dade 54" PCCP FM Rehab	05-Aug-14 A	20-Feb-15												Engineering Design (DCP
Procurement - South Dade 54" PCCP FM Rehab	21-Feb-15	03-Jan-16												
4.5 (1) Install 10,560 LF of 54" & 21,150 LF 60" FM in SW 280th St.	05-Aug-14 A	22-Sep-16												



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			Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
			Procurement - 4.9 (9-13) Replace 6", 8" & 12" ACP FM	01-Jun-14 A	12-Jan-15	[Gantt Bar]						Procurement - 4.9 (9-13) Replace		
Construction - 4.9 (9-13) Replace 6", 8" & 12" ACP FM	13-Jan-15	12-Jul-16							[Gantt Bar]					
4.9 (14-19) Replacement of 6, 8 & 10" ACP FM Around PS#0376, 04	01-Jul-14 A	14-Jul-16												
Procurement - 4.9 (14-19) Replace 6", 8" & 10" ACP FM	01-Jul-14 A	12-Jan-15	[Gantt Bar]						Procurement - 4.9 (14-19) Replac					
Construction - 4.9 (14-19) Replace 6", 8" & 10" ACP FM	13-Jan-15	14-Jul-16							[Gantt Bar]					
4.9 (20-21) Replace 467LF 8" ACP FM from PS#0366 to NW42ndPI/	16-Feb-15	15-Aug-15												
Engineering Design - 4.9 (20-21) Replace 467LF 8" ACP FM	16-Feb-15	15-Jun-15							[Gantt Bar]					
Permitting - 4.9 (20-21) Replace 467LF 8" ACP FM	16-Jun-15	15-Aug-15							[Gantt Bar]					
4.9 (22) Replacement of 2,056 LF of 6" ACP FM from PS#358 to PS	16-Feb-15	09-Aug-15												
Engineering Design - 4.9 (22) Replace 2,056 LF of 6" ACP FM	16-Feb-15	09-Jun-15							[Gantt Bar]					
Permitting - 4.9 (22) Replace 2,056 LF of 6" ACP FM	10-Jun-15	09-Aug-15							[Gantt Bar]					
4.9 (24) Replacement of 800 LF of 8" ACP FM from PS#0353 to NW	16-Feb-15	31-Jul-15												
Engineering Design - 4.9 (24) Replace 800 LF of 8" ACP FM	16-Feb-15	31-May-15							[Gantt Bar]					
Permitting - 4.9 (24) Replace 800 LF of 8" ACP FM	01-Jun-15	31-Jul-15							[Gantt Bar]					
4.9 (25-26) Replacement of 1425 LF of 10" ACP FM from NW123rd	16-Feb-15	09-Aug-15												
Engineering Design - 4.9 (25-26) Replace 1,425 LF of 10" ACP FM	16-Feb-15	09-Jun-15							[Gantt Bar]					
Permitting - 4.9 (25-26) Replace 1,425 LF of 10" ACP FM	10-Jun-15	09-Aug-15							[Gantt Bar]					
4.9 (28) Replacement of 1,610 LF of 8" ACP FM from PS0786 to MI	02-Mar-15	29-Jul-15												
Engineering Design - 4.9 (28) Replace 1,610 LF of 8" ACP FM	02-Mar-15	29-May-15							[Gantt Bar]					
Permitting - 4.9 (28) Replace 1,610 LF of 8" ACP FM	30-May-15	29-Jul-15							[Gantt Bar]					
4.9 (29-31) Replace 12" & 10" ACP FM BTW PS#0812 & SW 102nd	30-Sep-14 A	28-Jul-15												
Engineering Design - 4.9 (29-31) Replace 12" & 10" ACP FM	30-Sep-14 A	28-Mar-15	[Gantt Bar]						Engineering Desig					
Permitting - 4.9 (29-31) Replace 12" & 10" ACP FM	29-Mar-15	28-May-15							[Gantt Bar]					
Procurement - 4.9 (29-31) Replace 12" & 10" ACP FM	29-May-15	28-Jul-15							[Gantt Bar]					
4.9 (32) Replacement of 851 LF of 12" ACP FM in SW 107th Ave. fr	01-Mar-15	27-Aug-15												
Engineering Design - 4.9 (32) Replace 852 LF of 12" ACP FM	01-Mar-15	27-Apr-15							[Gantt Bar]					
Permitting - 4.9 (32) Replace 852 LF of 12" ACP FM	28-Apr-15	27-Jun-15							[Gantt Bar]					
Procurement - 4.9 (32) Replace 852 LF of 12" ACP FM	28-Jun-15	27-Aug-15							[Gantt Bar]					
4.9 (44-45) Replacement of 1200 LF of 8" ACP FM from PS#0810 to	02-Mar-15	29-Jul-15												
Engineering Design - 4.9 (44-45) Replace 1200 LF of 8" ACP FM	02-Mar-15	29-May-15							[Gantt Bar]					
Permitting - 4.9 (44-45) Replace 1200 LF of 8" ACP FM	30-May-15	29-Jul-15							[Gantt Bar]					
4.9 (47) Replacement of 973 LF of 8" ACP FM from PS#0869 to SW	02-Mar-15	28-Aug-15												
Engineering Design - 4.9 (47) Replace 973 LF of 8" ACP FM	02-Mar-15	28-Apr-15							[Gantt Bar]					



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Permitting - 4.9 (47) Replace 973 LF of 8" ACP FM	29-Apr-15	28-Jun-15													
Procurement - 4.9 (47) Replace 973 LF of 8" ACP FM	29-Jun-15	28-Aug-15													
4.9 (54-56) Replace 5043LF of 12" ACP FM - SW 72nd St from 137t	02-Mar-15	28-Aug-15													
Engineering Design - 4.9 (54-56) 5,043 LF of 12" ACP FM	02-Mar-15	28-Aug-15													
4.9 (57-59) Replace 1441LF 8", 2101LF 10" & 776LF 12"ACP FM - K	02-Mar-15	28-Aug-15													
Engineering Design - 4.9 (57-59) Replace 1,441 LF of 8", 2,101 LF	02-Mar-15	28-Aug-15													
4.9 (67) Replace 2,700 LF of 8" ACP FM from PS#1132 Along Bikin	05-Feb-15	05-Aug-15													
Engineering Design - 4.9 (67) Replace 2,700 LF of 8" ACP FM	05-Feb-15	05-Aug-15													
4.9 (68) Replacement of 3,400 LF of 6" and 8" ACP FM, from PS#0	06-Oct-14 A	20-Sep-15													
Engineering Design - 4.9 (68) Replace 3,400 LF of 6" and 8" ACP F	06-Oct-14 A	24-Mar-15													
Permitting - 4.9 (68) Replace 3,400 LF of 6" and 8" ACP FM	25-Mar-15	22-Jun-15													
Procurement - 4.9 (68) Replace 3,400 LF of 6" and 8" ACP FM	23-Jun-15	20-Sep-15													
4.9 (69) Replacement of 2,320 LF of 12" ACP FM from PS#0333 So	16-Feb-15	17-Jul-15													
Engineering Design - 4.9 (69) Replace 2,320 LF of 12" ACP FM	16-Feb-15	17-Jul-15													
4.9 (70) Replace 8,000 LF of 10" ACP FM Along US-1 from 184th S	27-Oct-14 A	26-Aug-15													
Engineering Design (DCP) - 4.9 (70) Replace 8,000 LF of 10" ACP	27-Oct-14 A	27-Feb-15													
Procurement - 4.9 (70) Replace 8,000 LF of 10" ACP FM	28-Feb-15	26-Aug-15													
4.9 (71) Replace 10" ACP FM from PS#0445, West to NW 207th St.	16-Feb-15	17-Aug-15													
Engineering Design - 4.9 (71) Replace 10" ACP FM	16-Feb-15	17-Aug-15													
4.9 (72) Replace 9,045 LF of 8", 12" and 16" ACP FM from PS#0891	16-Feb-15	24-Jan-16													
Engineering Design - 4.9 (72) Replace 9,045 LF of 8", 10, & 12" AC	16-Feb-15*	24-Jan-16													
4.9 (73) Replacement of 10" FM from PS#0735 and Private PS Sou	16-Feb-15	16-Aug-15													
Engineering Design - 4.9 (73) Replace 10" ACP FM from PS#0735 t	16-Feb-15*	16-Aug-15													
4.10 Opa-Locka Airport 48" PCCP Force Main Replacement	17-Dec-14 A	21-Aug-16													
Engineering Design (DCP) - Replace 48" PCCP FM @ Opa-Locka Air	17-Dec-14 A	26-Sep-15													
Basis of Design Report (BODR) - Replace 48" PCCP FM @ Opa-Lock	17-Dec-14 A	15-Apr-15													
Procurement - Replace 48" PCCP FM @ Opa-Locka Airport	16-Apr-15	21-Aug-16													
Design Criteria Package Initial Submittal - Replace 48" PCCP FM @ C	16-Apr-15*	13-Aug-15													
Design-Builder RFQ Process (Tier 1) - Replace 48" PCCP FM @ Opa	16-Apr-15	13-Aug-15													
5. Sewer Pump Station System	12-Dec-10 A	28-Jul-16													
5.1 Upgrade of PS#0418	14-Jul-14 A	25-Feb-16													
Permitting - Upgrade PS#0418	14-Jul-14 A	01-May-15													
Procurement - Upgrade PS#0418	02-May-15	25-Feb-16													



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5.2 Upgrade of PS#0691	26-Nov-14 A	19-Aug-15													
Engineering Design - Upgrade PS#0691	26-Nov-14 A	19-Aug-15													
Basis of Design Report (BODR) - Upgrade PS#0691	26-Nov-14 A	28-Feb-15													
Negotiate Scope & Fee of Remaining Design - Replace S/G for PS#04	14-Jan-15	14-Mar-15													
BODR Review Period - Replace S/G for PS#0414	01-Mar-15	14-Mar-15													
30% Design Submittal - Replace S/G for PS#0414	15-Mar-15	03-May-15													
30% Design Review - Replace S/G for PS#0414	04-May-15	17-May-15													
60% Design Submittal - Replace S/G for PS#0414	18-May-15	06-Jul-15													
5.3 Upgrade of PS#0692	26-Nov-14 A	21-Jun-16													
Engineering Design (DCP) - Upgrade PS#0692	26-Nov-14 A	08-May-15													
Design Criteria Package Initial Submittal - Upgrade PS#0692	26-Nov-14 A	18-Mar-15													
DCP Design Review - Upgrade PS#0692	19-Mar-15*	08-Apr-15													
Final DCP Submittal - Upgrade PS#0692	09-Apr-15*	08-May-15													
Procurement - Upgrade PS#0692	09-May-15	21-Jun-16													
Design-Builder RFQ Process (Tier 1) - Upgrade PS#0692	09-May-15	05-Sep-15													
5.4 Replacement of Switchgear PS#0414	24-Jan-15	23-Nov-15													
Engineering Design - Replace S/G for PS#0414	24-Jan-15	23-Nov-15													
Basis of Design Report (BODR) - Replace S/G for PS#0414	24-Jan-15	24-Mar-15													
Negotiate Scope & Fee of Remaining Design - Replace S/G for PS#04	07-Feb-15	07-Apr-15													
BODR Review Period - Replace S/G for PS#0414	25-Mar-15	07-Apr-15													
30% Design Submittal - Replace S/G for PS#0414	08-Apr-15	18-Jun-15													
30% Design Review - Replace S/G for PS#0414	19-Jun-15	02-Jul-15													
5.5 Replacement of Switchgear and Rehabilitation of Wetwell F	24-Jan-15	13-Dec-15													
Engineering Design - Replace S/G and Rehab Wetwell PS#0415	24-Jan-15	13-Dec-15													
Basis of Design Report (BODR) - Replace S/G and Rehab Wetwell P	24-Jan-15	24-Mar-15													
Negotiate Scope & Fee of Remaining Design - Replace S/G and Reha	07-Feb-15	07-Apr-15													
BODR Review Period - Replace S/G and Rehab Wetwell PS#0415	25-Mar-15	07-Apr-15													
30% Design Submittal - Replace S/G and Rehab Wetwell PS#0415	08-Apr-15	26-Jun-15													
30% Design Review - Replace S/G and Rehab Wetwell PS#0415	27-Jun-15	10-Jul-15													
5.6 Replacement of Switchgear PS#0416	24-Jan-15	13-Dec-15													
Engineering Design - Replace S/G PS#0416	24-Jan-15	13-Dec-15													
Basis of Design Report (BODR) - Replace S/G PS#0416	24-Jan-15	24-Mar-15													



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Negotiate Scope & Fee of Remaining Design - Replace S/G PS#0416	07-Feb-15	07-Apr-15												
BODR Review Period - Replace S/G PS#0416	25-Mar-15	07-Apr-15												
30% Design Submittal - Replace S/G PS#0416	08-Apr-15	28-Jun-15												
30% Design Review - Replace S/G PS#0416	29-Jun-15	12-Jul-15												
5.7 Replacement of Switchgear and Rehabilitation of Wetwell F	24-Jan-15	13-Dec-15												
Engineering Design - Replace S/G and Rehab Wetwell PS#0417	24-Jan-15	13-Dec-15												
Basis of Design Report (BODR) - Replace S/G and Rehab Wetwell PS#0417	24-Jan-15	24-Mar-15												
Negotiate Scope & Fee of Remaining Design - Replace S/G and Rehab Wetwell PS#0417	07-Feb-15	07-Apr-15												
BODR Review Period - Replace S/G and Rehab Wetwell PS#0417	25-Mar-15	07-Apr-15												
30% Design Submittal - Replace S/G and Rehab Wetwell PS#0417	08-Apr-15	28-Jun-15												
30% Design Review - Replace S/G and Rehab Wetwell PS#0417	29-Jun-15	12-Jul-15												
5.8 Replacement of Electrical and Mechanical Equipment in PS	01-Mar-15	28-Nov-15												
Engineering Design - Replace Elect. & Mech. Equip. PS#0107	01-Mar-15	28-Nov-15												
30% Design Submittal - Replace Elect. & Mech. Equip. PS#0107	01-Mar-15	29-May-15												
30% Design Review - Replace Elect. & Mech. Equip. PS#0107	30-May-15	12-Jun-15												
60% Design Submittal - Replace Elect. & Mech. Equip. PS#0107	13-Jun-15	15-Sep-15												
5.9 Replacement of Pumping and Electrical Equipment at PS#0	20-Nov-14 A	14-Oct-15												
Engineering Design - Replace Pumping & Electrical Equip. PS#0301	20-Nov-14 A	14-Oct-15												
Basis of Design Report (BODR) - Replace Pumping & Electrical Equip. PS#0301	24-Nov-14 A	28-Mar-15												
BODR Review Period - Replace Pumping & Electrical Equip. PS#0301	29-Mar-15	11-Apr-15												
30% Design Submittal - Replace Pumping & Electrical Equip. PS#0301	12-Apr-15	10-Jun-15												
30% Design Review - Replace Pumping & Electrical Equip. PS#0301	11-Jun-15	24-Jun-15												
60% Design Submittal - Replace Pumping & Electrical Equip. PS#0301	25-Jun-15	23-Aug-15												
5.10 Upgrade of PS#0488	16-Feb-15	21-Jan-16												
Engineering Design - Upgrade PS#0488	16-Feb-15	18-Aug-15												
60% Design Submittal - Upgrade PS#0488	16-Feb-15	16-May-15												
60% Design Review - Upgrade PS#0488	17-May-15	30-May-15												
Obtain Easements - Upgrade PS#0488	17-May-15	21-Jan-16												
100% Design Submittal - Upgrade PS#0488	31-May-15	18-Aug-15												
5.11 Installation of 60 inch FM from Kendall Dr to PS#0536	17-Dec-14 A	28-Jul-16												
Engineering Design (DCP) - Install 60" FM from Kendal Dr. to PS#0536	17-Dec-14 A	21-Dec-15												
Basis of Design Report (BODR) - Install 60" FM from Kendal Dr. to PS	17-Dec-14 A	16-Apr-15												



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Activity Name	Start	Finish	2014						2015						
			Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
Procurement - Install 60" FM from Kendal Dr. to PS#0536	16-Jun-15	28-Jul-16													
Design Criteria Package Initial Submittal -Install 60" FM from Kendal I	16-Jun-15*	31-Oct-15													
Design-Builder RFQ Process (Tier 1) -Install 60" FM from Kendal Dr.	16-Jun-15	13-Oct-15													
5.12 Replacement of Switchgear at PS#0187	01-Feb-15	25-Nov-15													
Engineering Design - Replace S/G at PS#0187	01-Feb-15	25-Nov-15													
Basis of Design Report (BODR) - Replace S/G at PS#0187	01-Feb-15	01-May-15													
BODR Review Period - Replace S/G at PS#0187	02-May-15	15-May-15													
60% Design Submittal - Replace S/G at PS#0187	16-May-15	02-Sep-15													
5.13 Refurbish Emergency Generators and Controls at Region	12-Sep-14 A	20-Jul-16													
Engineering Design (N/A) - Refurbish Emer Gen Controls at Pumpstat	12-Sep-14 A	26-Mar-15													
Permitting (N/A) - Refurbish Emer Gen Controls at Pumpstations	12-Sep-14 A	26-Mar-15													
Procurement - Refurbish Emer Gen Controls at Pumpstations	12-Sep-14 A	26-Mar-15													
Construction - Refurbish Emer Gen Controls at Pumpstations	27-Mar-15	20-Jul-16													
5.13 (1) Refurbish PS#0306 Emergency Generator & Controls (Cat	31-Dec-14	09-Mar-15													
Procurement - Refurbish PS#0306 Emergency Generator \$ Controls	31-Dec-14*	09-Feb-15													
Construction - Refurbish PS#0306 Emergency Generator \$ Controls	10-Feb-15	09-Mar-15													
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish		09-Mar-15*													
5.13 (2) Refurbish PS#0345 Emergency Generator & Controls (Cui	02-Mar-15	09-May-15													
Procurement - Refurbish PS#0345 Emergency Generator \$ Controls	02-Mar-15*	11-Apr-15													
Construction - Refurbish PS#0345 Emergency Generator \$ Controls	12-Apr-15	09-May-15													
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish		09-May-15*													
5.13 (3) Refurbish PS#0346 Emergency Generator & Controls (Cui	11-May-15	18-Jul-15													
Procurement - Refurbish PS#0346 Emergency Generator \$ Controls	11-May-15*	20-Jun-15													
Construction - Refurbish PS#0346 Emergency Generator \$ Controls	21-Jun-15	18-Jul-15													
5.13 (4) Refurbish PS#0347 Emergency Generator & Controls (Cui	16-Feb-15	25-Apr-15													
Procurement - Refurbish PS#0347 Emergency Generator \$ Controls	16-Feb-15*	28-Mar-15													
Construction - Refurbish PS#0347 Emergency Generator \$ Controls	29-Mar-15	25-Apr-15													
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish		25-Apr-15*													
5.13 (5) Refurbish PS#0348 Emergency Generator & Controls (Cat	19-Jan-15	28-Mar-15													
Procurement - Refurbish PS#0348 Emergency Generator \$ Controls	19-Jan-15*	28-Feb-15													
Construction - Refurbish PS#0348 Emergency Generator \$ Controls	01-Mar-15	28-Mar-15													
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish		28-Mar-15*													
5.13 (6) Refurbish PS#0421 Emergency Generator & Controls (Cui	25-May-15	04-Jul-15													



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Activity Name	Start	Finish	2014						2015						
			Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
Procurement - Refurbish PS#0421 Emergency Generator \$ Controls	25-May-15*	04-Jul-15													
5.13 (8) Refurbish PS#0423 Emergency Generator & Controls (Cui	30-Mar-15	06-Jun-15													
Procurement - Refurbish PS#0423 Emergency Generator \$ Controls	30-Mar-15*	09-May-15													
Construction - Refurbish PS#0423 Emergency Generator \$ Controls	10-May-15	06-Jun-15													
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish		06-Jun-15*													
5.13 (9) Refurbish PS#0424 Emergency Generator & Controls (Cui	02-Feb-15	31-Mar-15													
Procurement - Refurbish PS#0424 Emergency Generator \$ Controls	02-Feb-15*	03-Mar-15													
Construction - Refurbish PS#0424 Emergency Generator \$ Controls	04-Mar-15	31-Mar-15													
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish		31-Mar-15*													
5.13 (10) Refurbish PS#0425 Emergency Generator & Controls (Cui	16-Mar-15	23-May-15													
Procurement - Refurbish PS#0425 Emergency Generator \$ Controls	16-Mar-15*	25-Apr-15													
Construction - Refurbish PS#0425 Emergency Generator \$ Controls	26-Apr-15	23-May-15													
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish		23-May-15*													
5.13 (11) Refurbish PS#0426 Emergency Generator & Controls (Cui	22-Oct-14 A	03-Feb-15													
Procurement - Refurbish PS#0426 Emergency Generator \$ Controls	22-Oct-14 A	06-Jan-15													
Construction - Refurbish PS#0426 Emergency Generator \$ Controls	07-Jan-15	03-Feb-15													
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish		03-Feb-15*													
5.13 (12) Refurbish PS#0516 Emergency Generator & Controls (Cui	05-Jan-15	11-Mar-15													
Procurement - Refurbish PS#0516 Emergency Generator \$ Controls	05-Jan-15*	11-Feb-15													
Construction - Refurbish PS#0516 Emergency Generator \$ Controls	12-Feb-15	11-Mar-15													
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish		11-Mar-15*													
5.13 (14) Refurbish PS#0522 Emergency Generator & Controls (Cui	22-Oct-14 A	19-Jan-15													
Construction - Refurbish PS#0522 Emergency Generator \$ Controls	22-Oct-14 A	19-Jan-15													
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish		19-Jan-15*													
5.13 (15) Refurbish PS#0571 Emergency Generator & Controls (Cui	22-Oct-14 A	03-Feb-15													
Procurement - Refurbish PS#0571 Emergency Generator \$ Controls	22-Oct-14 A	06-Jan-15													
Construction - Refurbish PS#0571 Emergency Generator \$ Controls	07-Jan-15	03-Feb-15													
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish		03-Feb-15*													
5.13 (16) Refurbish PS#0681 Emergency Generator & Controls (Cui	22-Oct-14 A	03-Feb-15													
Procurement - Refurbish PS#0681 Emergency Generator \$ Controls	22-Oct-14 A	06-Jan-15													
Construction - Refurbish PS#0681 Emergency Generator \$ Controls	07-Jan-15	03-Feb-15													
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish		03-Feb-15*													
5.13 (19) Refurbish PS#1072 Emergency Generator & Controls (Cui	30-Mar-15	06-Jun-15													



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Activity Name	Start	Finish	2014						2015					
			Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
			Procurement - Refurbish PS#1072 Emergency Generator \$ Controls	30-Mar-15*	09-May-15									
Construction - Refurbish PS#1072 Emergency Generator \$ Controls	10-May-15	06-Jun-15												
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish		06-Jun-15*												
5.13 (20) Refurbish PS#1073 Emergency Generator & Controls (C)	27-Apr-15	04-Jul-15												
Procurement - Refurbish PS#1073 Emergency Generator \$ Controls	27-Apr-15*	06-Jun-15												
Construction - Refurbish PS#1073 Emergency Generator \$ Controls	07-Jun-15	04-Jul-15												
5.15 Upgrade of PS#0065, 0201, 0334, 0374, 0607	12-Dec-10 A	31-Dec-15												
Engineering Design - Upgrade PS#0065, 0201, 0334, 0374, 0607	12-Dec-10 A	14-Jan-15												
Permitting - Upgrade PS#0065, 0201, 0334, 0374, 0607	12-Dec-10 A	11-Jun-15												
Procurement - Upgrade PS#0065, 0201, 0334, 0374, 0607	12-Dec-10 A	11-Jun-15												
Construction - Upgrade PS#0065, 0201, 0334, 0374, 0607	12-Dec-10 A	31-Dec-15												
5.15 (1) Pump Station 0065 Compliance Project	27-Oct-14 A	19-Oct-15												
Engineering Design - PS#0065 Compliance Project	27-Oct-14 A	14-Jan-15												
Permitting - PS#0065 Compliance Project	15-Jan-15	01-Apr-15												
Procurement - PS#0065 Compliance Project	15-Jan-15	01-Apr-15												
Construction - PS#0065 Compliance Project	02-Apr-15	19-Oct-15												
5.15 (1.1) FM for Pump Station 0065 Phase 1	27-Oct-14 A	31-Dec-15												
Engineering Design - FM for PS#0065 Phase 1	27-Oct-14 A	01-Apr-15												
Permitting - FM for PS#0065 Phase 1	02-Apr-15	11-Jun-15												
Procurement - FM for PS#0065 Phase 1	02-Apr-15	11-Jun-15												
Construction - FM for PS#0065 Phase 1	12-Jun-15	31-Dec-15												
5.15 (2) Pump Station 0201 Compliance Project	30-Jun-14 A	23-Oct-15												
Procurement - PS#0201 Compliance Project	30-Jun-14 A	26-Jan-15												
Construction - PS#0201 Compliance Project	27-Jan-15	23-Oct-15												
5.15 (3) Pump Station 0334 Compliance Project	17-Jun-14 A	17-Nov-15												
Procurement - PS#0334 Compliance Project	17-Jun-14 A	20-Feb-15												
Construction - PS#0334 Compliance Project	21-Feb-15	17-Nov-15												
5.15 (3.1) FM for Pump Station 0334	24-Nov-14 A	26-Sep-15												
Construction - FM for Pump Station 0334	24-Nov-14 A	26-Sep-15												
5.15 (5) Pump Station 0607 Compliance Project	30-Jun-14 A	31-Aug-15												
Procurement - PS#0607 Compliance Project	30-Jun-14 A	04-Jan-15												
Construction - PS#0607 Compliance Project	05-Jan-15	31-Aug-15												
5.16 Upgrade of PS#0198, 0437, 0466, 0680	02-Feb-15	10-Jul-15												

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Activity Name	Start	Finish	2014						2015						
			Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
Engineering Design - Upgrade PS#0198, 0437, 0466, 0680	02-Feb-15	10-Jul-15													
5.16 (1) Pump Station 0198 Compliance Project (I/I Work)	02-Feb-15	10-Jul-15													
Engineering Design - PS#0198 Compliance Project (I/I Work)	02-Feb-15*	10-Jul-15													
5.16 (2) Pump Station No. 0437 Upgrade	02-Feb-15	10-Jul-15													
Engineering Design - PS#0437 Upgrade	02-Feb-15*	10-Jul-15													
5.16 (3) Pump Station 0466 Compliance Project	02-Feb-15	10-Jul-15													
Engineering Design - PS#0466 Compliance Project	02-Feb-15*	10-Jul-15													
5.16 (4) Pump Station 0680 Upgrade	02-Feb-15	10-Jul-15													
Engineering Design - PS#0680 Upgrade	02-Feb-15*	10-Jul-15													
5.19 SCADA RTU Upgrades	01-Oct-13 A	18-Mar-16													
Construction - PS SCADARTU Upgrades	01-Oct-13 A	18-Mar-16													
6. Supplemental Environmental Project	16-Feb-15	23-Jan-16													
Supplemental Environmental Project (SEP)	16-Feb-15	23-Jan-16													
Engineering Design - SEP	16-Feb-15	23-Jan-16													
Basis of Design Report (BODR) - SEP	16-Feb-15	16-Apr-15													
BODR Review Period - SEP	17-Apr-15	30-Apr-15													
30% Design Submittal - SEP	01-May-15	29-Jul-15													
7. Capacity, Management, Operations & Maint. (CMOM) Program	01-Oct-13 A	06-Dec-18													
Pump Station Remote Monitoring	01-Oct-13 A	18-Mar-16													
Implementation of Pump Station Remote Monitoring	01-Oct-13 A	18-Mar-16													
WCTS Model	06-Dec-13 A	06-Dec-18													
Update WCTS Model	06-Dec-13 A	06-Dec-18													
Spare Parts Program	06-Dec-13 A	04-Sep-15													
Spare Parts Program	06-Dec-13 A	04-Sep-15													
Volume Sewer Customer (VSC) Ordinance Program	04-Jun-14 A	29-Jun-15													
Pending EPA Review/Approval - Changes to VSC Program	04-Jun-14 A	31-Dec-14													
Enact Amendment within 180 days of Approvals	01-Jan-15	29-Jun-15													
Fats, Oils & Grease (FOG) Control Program	06-Dec-13 A	07-Aug-15													
Revised FOG Control Program to EPA/FDEP	06-Dec-13 A	08-Jun-15													
Compliance Submittal Milestone (CD Compliance Date 6/8/2015) - FC		08-Jun-15													
EPA/FDEP Review/Approval - Revised FOG Control Program	09-Jun-15	07-Aug-15													
Deliverable Placed in the PDR - Revised FOG Control Program	09-Jun-15	09-Jun-15													
Sewer Overflow Response Plan (SORP)	06-Dec-13 A	06-Jul-15													

Basis of Design
 BODR Review
 Construction
 Design
 Design Review
 Design Submittal
 Design Review
 Design Submittal

Activity Name	Start	Finish	2014						2015					
			Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
SORP submittal to EPA/FDEP	06-Dec-13 A	06-Jul-15	[Gantt bar: Dec 2014 - Jul 2015]											
Information Management System (IMS) Program	06-Dec-13 A	07-Jun-17	[Gantt bar: Dec 2014 - Jun 2017]											
Submit IMS Program to EPA/FDEP	06-Dec-13 A	07-Dec-15	[Gantt bar: Dec 2014 - Dec 2015]											
Implementation of Graphic Information System (GIS) of Entire WCTS	06-Dec-13 A	07-Jun-17	[Gantt bar: Dec 2014 - Jun 2017]											
Sewer System Asset Management Program	06-Dec-13 A	06-Oct-15	[Gantt bar: Dec 2014 - Oct 2015]											
Asset Management Plan to EPA/FDEP	06-Dec-13 A	06-Oct-15	[Gantt bar: Dec 2014 - Oct 2015]											
Gravity Sewer System Operations & Maintenance Program	06-Dec-13 A	04-Oct-15	[Gantt bar: Dec 2014 - Oct 2015]											
Gravity Sewer System O&M Program to EPA/FDEP	06-Dec-13 A	06-Feb-15	[Gantt bar: Dec 2014 - Feb 2015]											
Compliance Submittal Milestone (CD Compliance Date 2/06/15) - GSS		06-Feb-15	[Milestone: Feb 2015]											
EPA/FDEP Review/Approval - GSS O&M Program	07-Feb-15	07-Apr-15	[Gantt bar: Feb 2015 - Apr 2015]											
Enact Amendment within 180 days of Approvals	08-Apr-15	04-Oct-15	[Gantt bar: Apr 2015 - Oct 2015]											
Deliverable Placed in the PDR - GSS O&M Program	08-Apr-15	08-Apr-15	[Milestone: Apr 2015]											
Pump Station Operations & Preventative Maint. Program	06-Dec-13 A	02-Dec-15	[Gantt bar: Dec 2014 - Dec 2015]											
Pump Station Ops & Prev. Maint Program to EPA/FDEP	06-Dec-13 A	06-Apr-15	[Gantt bar: Dec 2014 - Apr 2015]											
Compliance Submittal Milestone (CD Compliance Date 4/06/15) - Pump		06-Apr-15	[Milestone: Apr 2015]											
EPA/FDEP Review/Approval - Pump Station O&M Program	07-Apr-15	05-Jun-15	[Gantt bar: Apr 2015 - Jun 2015]											
Deliverable Placed in the PDR - Pump Station O&M Program	07-Apr-15	07-Apr-15	[Milestone: Apr 2015]											
Enact Amendment within 180 days of Approvals	06-Jun-15	02-Dec-15	[Gantt bar: Jun 2015 - Dec 2015]											
Force Main Operation, Preventative Maint. & Assessment/Reha	06-Dec-13 A	06-Aug-15	[Gantt bar: Dec 2014 - Aug 2015]											
FM Oper. Prev. Maint. & Assessment/Rehab Program to EPA/FDEP	06-Dec-13 A	06-Aug-15	[Gantt bar: Dec 2014 - Aug 2015]											
Force Main Rehabilitation/Replacement Program	06-Dec-13 A	07-Dec-15	[Gantt bar: Dec 2014 - Dec 2015]											
Force Main Rehabilitation/Replacement Program to EPA/FDEP	06-Dec-13 A	07-Dec-15	[Gantt bar: Dec 2014 - Dec 2015]											
WWTP Operations and Maintenance Program	06-Dec-13 A	05-Jul-15	[Gantt bar: Dec 2014 - Jul 2015]											
WWTP O&M Program to EPA/FDEP	06-Dec-13 A	06-May-15	[Gantt bar: Dec 2014 - May 2015]											
Compliance Submittal Milestone (CD Compliance Date 5/06/15) - WW		06-May-15	[Milestone: May 2015]											
EPA/FDEP Review/Approval - WWTP O&M Program	07-May-15	05-Jul-15	[Gantt bar: May 2015 - Jul 2015]											
Deliverable Placed in the PDR -WWTP O&M Program	07-May-15	07-May-15	[Milestone: May 2015]											
Financial Analysis Program	05-Dec-14 A	01-Aug-15	[Gantt bar: Dec 2014 - Aug 2015]											
EPA/FDEP Review/Approval - Financial Analysis Program	05-Dec-14 A	02-Feb-15	[Gantt bar: Dec 2014 - Feb 2015]											
Deliverable Placed in the PDR - Financial Analysis Program	31-Dec-14	31-Dec-14	[Milestone: Dec 2014]											
Enact Amendment within 180 days of Approvals	03-Feb-15	01-Aug-15	[Gantt bar: Feb 2015 - Aug 2015]											

█ Gravity Sewer System O&M
◆ Compliance Submittal Milestone
█ EPA/FDEP Review/Approval
█ Deliverable Placed in the PDR
█ Pump Station Operations & Preventative Maintenance Program
◆ Compliance Submittal Milestone
█ EPA/FDEP Review/Approval
█ Deliverable Placed in the PDR
█ WWTP Operations and Maintenance Program
◆ Compliance Submittal Milestone
█ Deliverable Placed in the PDR
█ EPA/FDEP Review/Approval - Financial Analysis Program
█ Deliverable Placed in the PDR - Financial Analysis Program



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