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VIA ELECTRONIC CORRESPONDENCE

January 31, 2020

CCN: 63009
File No: 8.DC.20.33

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Attn: Compliance/Enforcement Section
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**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 Reports – 2019
Semi-Annual Report No. 2**

Dear Sir/Madam:

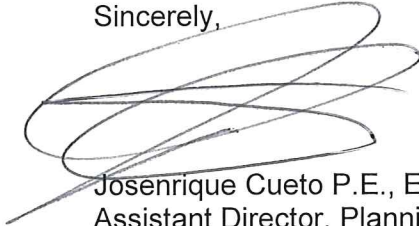
In accordance with the provisions of Paragraph 33 of the above referenced Consent Decree, on behalf of Miami-Dade County, the Water and Sewer Department (WASD) submits to both the United States Environmental Protection Agency (EPA) and the State of Florida Department of Environmental Protection (FDEP) the 2019 Semi-Annual Report No. 2. The report includes the progress made in implementing the requirements of the aforementioned Consent Decree during the period of time from July 1, 2019 through December 31, 2019. The report also includes the anticipated work to be completed over the next two calendar quarters through June 30, 2020.

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

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

Should you have any questions regarding this matter, please call me at (786) 552-8120.

Sincerely,



Josenrique Cueto P.E., ENV SP, LEED® Green Associate
Assistant Director, Planning and Regulatory Compliance

Attachment: 2019 Semi-Annual Report No. 2

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2019 Semi-Annual Report No. 2 (Eleventh Semi-Annual Report)

July 1, 2019 through December 31, 2019

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



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Acronyms and Abbreviations

AASIS	Active As-built Supplemental Information Systems
AC	Asbestos Cement
BODR	Basis of Design Report
CD	Consent Decree
CDWWTP	Central District Wastewater Treatment Plant
CIP	Capital Improvement Project
CIPP	Cured in Place Pipe
CMOM	Capacity, Management, Operations and Maintenance
County	Miami-Dade County
DOJ	Department of Justice
EFT	Electronic Funds Transfer
EPA	Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
FM	Force Main
FMOPMARP	Force Main Operations, Preventative Maintenance and Assessment/Rehabilitation Program
FM R/R P	Force Main Rehabilitation/Replacement Program
FOG	Fats, Oils and Grease
FSE	Food Service Establishments
GDO	Grease Discharge Operations
GIS	Geographic Information System
GPD	Gallons per Day
GPM	Gallons per Minute

Acronyms and Abbreviations (continued)

GSS	Gravity Sewer System
I/I	Inflow/Infiltration
IMS	Information Management System
LF	Linear Foot
LWT	Liquid Waste Transporters
MGD	Million Gallons per Day
N/A	Not Applicable
NDWWTP	North District Waste Water Treatment Plant
NPDES	National Pollutant Discharge Elimination System
OOL	Ocean Outfall Legislation
PDR	Public Document Repository
PS	Pump Station
PSOPMP	Pump Station Operations and Preventative Maintenance Program
R & R	Renewal and Replacement
RER-DERM	Department of Regulatory and Economic Resources-Division of Environmental Resources Management
RTU	Remote Telemetry Unit
SCADA	Supervisory Control and Data Acquisition
SDWWTP	South District Waste Water Treatment Plant
SEP	Supplemental Environmental Project
SORP	Sewer Overflow Response Plan
SSAMP	Sewer System Asset Management Program
SSO	Sanitary Sewer Overflow
VFD	Variable Frequency Drive

Acronyms and Abbreviations (continued)

VSC	Volume Sewer Customer
WASD	Miami-Dade Water and Sewer Department
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 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, 2019 through December 31, 2019), and also provides projections for significant projects and activities anticipated to be completed in the next two calendar quarters (January 1, 2020 through June 30, 2020).

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 (WASD) that are required to be tracked and reported by Subparagraph 19(j)(v) of the CD and the Policy Resolutions.

All CD requirements were met for the previous two calendar quarters, with the exception of a breach in Public Document Repository availability and meeting the final deadlines for three Appendix D Capital Improvement Projects (CIP): 1) CIP 5.1 – Upgrade of Pump Station No. 0418 (October 22, 2019) which achieved construction completion on November 8, 2019, and 2) CIP 5.5 – Replacement of Switchgear and Rehabilitation of Wet Well Pump Station No. 0415 (September 2, 2019) which achieved construction completion on November 13, 2019 and 3) CIP 2.2(2) – Repairs to Various Buildings (September 26, 2019) which is in the construction phase.

During this reporting period, the County experienced a breach in compliance when the server on which the Public Document Repository (PDR) failed. Public Access to the PDR was interrupted for an estimated four days. The County notified electronically the EPA and FDEP on August 1, 2019. On October 4, 2019, the County submitted a detailed timeline of the events in the Public Document Repository Breach in Compliance Letter.

In accordance with Section IX, Paragraph 52 of the CD, on October 21, 2019, the County notified EPA/FDEP of a Delay Notification for CD CIP 5.1 – Upgrade of Pump Station No. 0418 due to delays that occurred during the construction phase. On December 30, 2019, the County issued a

Notification of Completion Letter to the EPA and FDEP to advise that CD CIP 5.1 achieved construction completion on November 8, 2019.

In accordance with Section IX, Paragraph 52 of the CD, on October 2, 2019, the County notified EPA/FDEP of the Failure to Meet Compliance Date for CD CIP 5.5 – Replacement of Switchgear and Rehabilitation Wet Well Pump Station 0415 due to delays that occurred during the construction phase. On December 30, 2019, the County issued a Notification of Completion Letter to the EPA and FDEP to advise that CD CIP 5.5 achieved construction completion on November 13, 2019.

In accordance with Section IX, Paragraph 52 of the CD, the County previously submitted to EPA and FDEP a Force Majeure notification and a Project Update for CD CIP 2.2(2), on May 11, 2017 and November 3, 2017, respectively. On January 22, 2019, the County submitted the Potential Delay Notification Letter due to additional delay encountered in the re-design and re-permitting. On September 25, 2019, the County notified EPA and FDEP of a Failure to Meet CD Compliance Date for CD 2.2(2) – Repairs to Various Buildings due to delays that occurred during the construction phase. The anticipated completion date is April 30, 2020.

The County continues to be fully engaged with the successful implementation and compliance of the CD. First, with the continued development and implementation of the nine new CMOM Program (CD Section VI, Paragraph 19) all of which have been approved. Second, with the execution of the eighty-one (81) capital improvement projects included in Appendix D which have an approximate total cost of \$1.93 billion, and the Supplemental Environmental Project (SEP) included in Appendix E. As of this reporting period, forty-one (41) projects with a total cost of \$449 million have reached substantial completion and thirty-three (33) projects with an approximate total cost of \$1.3 billion are currently in the procurement and construction phases.

The projects, activities and milestones achieved, and the deliverables submitted to EPA/FDEP are listed in Table 1-1 (page 3). The upcoming projects, activities, milestones, and deliverables for the next two calendar quarters are listed in Table 1-2 (page 5). Additional program and project information is included in the Work Progress 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 CD 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
Continue implementing existing Spare Parts Program	Section VI, para. 18(d)	Ongoing	Ongoing	Yes
Continued Implementation of Sanitary Sewer Overflow (SSO) Identification and Reporting	Section VI, para. 19(b)	Within 24 hours and 5 days of known occurrence	Ongoing	Yes
Submit Second Annual FOG Control Program Review Report	Section VI, para. 19(a)	N/A	7/1/2019	Yes
Post Second Annual FOG Control Program Review Report in PDR	Section IX, para. 36	1 business day after submittal	7/1/2019	Yes
Submit 2019 Quarterly Report No. 2	Section IX, para. 32	7/30/2019	7/30/2019	Yes
Post 2019 Quarterly Report No. 2 in PDR	Section IX, para. 36	1 business day after submittal	7/31/2019	Yes
Submit 2019 Semi-Annual Report No. 1	Section IX, para. 33	7/30/2019	7/30/2019	Yes
Post 2019 Semi-Annual Report No. 1 in PDR	Section IX, para. 36	1 business day after submittal	7/31/2019	Yes
Submit Potential Force Majeure due to Hurricane Dorian	Section XI, para. 52 & Section XVII, para. 77	9/13/2019	9/13/2019	Yes
Post Potential Force Majeure due to Hurricane Dorian in PDR	Section V, para. 9	1 business day after submittal	9/13/2019	Yes

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)
Submit Project Update and Failure to Meet CD Compliance Date for CD CIP 2.2(2) – Repairs to Various Buildings	Section XI, para. 52 & Section XVII, para. 77	9/26/2019	9/25/2019	Yes
Post Project Update and Failure to Meet CD Compliance Date for CD CIP 2.2(2) – Repairs to Various Buildings in PDR	Section V, para. 9	1 business day after submittal	9/25/2019	Yes
Submit Failure to Meet Compliance Date for CD 5.5 – PS 0415	Section XI, para. 52 & Section XVII, para. 77	9/2/2019	10/2/2019	No
Post Failure to Meet Compliance Date for CD 5.5 – PS 0415 in PDR	Section V, para. 9	1 business day after submittal	10/2/2019	Yes
Submit Public Document Repository Breach in Compliance Letter	Section V, para. 9 and Section XI para.52	N/A	10/4/2019	Yes
Post Public Document Repository Breach in Compliance Letter in PDR	Section V, para. 9	1 business day after submittal	10/4/2019	Yes
Submit Delay Notification and Failure to Meet Compliance Date Letter for CD CIP 5.1 PS 0418	Section XI, para. 52 & Section XVII, para. 77	10/22/2019	10/21/2019	Yes
Post Delay Notification and Failure to Meet Compliance Date Letter for CD CIP 5.1 PS 0418 in PDR	Section V, para. 9	1 business day after submittal	10/21/2019	Yes
Submit 2019 Quarterly Report No. 3	Section IX, para. 32	10/30/2019	10/30/2019	Yes
Post 2019 Quarterly Report No. 3 in PDR	Section IX, para. 36	1 business day after submittal	10/30/2019	Yes
Submit Notification of Completion for CD 5.2 – Decommissioning of PS 0691 Letter	Section VI, para. 19(i)	N/A	12/5/2019	Yes
Post Notification of Completion for CD 5.2 – Decommissioning of PS 0691 Letter in PDR	Section IX, para. 36	1 business day after submittal	12/5/2019	Yes

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)
Submit SEP Completion Report	Section VII and Appendix E	12/18/2019	12/18/2019	Yes
Post SEP Completion Report in PDR	Section IX, para. 36	1 business day after submittal	12/18/2019	Yes
Submit Notification of Completion for CD 5.1 PS 0418	Section VI, para. 19(i)	N/A	12/30/2019	Yes
Post Notification of Completion for CD 5.1 PS 0418 Letter in PDR	Section IX, para. 36	1 business day after submittal	12/30/2019	Yes
Submit Notification of Completion for CD 5.5 PS 0415	Section VI, para. 19(i)	N/A	12/30/2019	Yes
Post Notification of Completion for CD 5.5 PS 0415 Letter in PDR	Section IX, para. 36	1 business day after submittal	12/30/2019	Yes
Completion of CD CIP 1.1 Headworks at SD WWTP	Section VI, para. 19(i)	2/23/2020	11/6/2019	Yes
Completion of CD CIP 2.4 Headworks Plant 1	Section VI, para. 19(i)	8/23/2019	8/13/2019	Yes
Completion of CD CIP 2.21 Pump Station No. 1 at CDWWTP	Section VI, para. 19(i)	2/26/2021	12/19/2019	Yes
Completion of CD 5.1 – Upgrade of Pump Station No. 0418	Section VI, para. 19(i)	10/22/2019	11/8/2019	No
Completion of CD 5.2 – Decommissioning of Pump Station 0691	Section VI, para. 19(i)	1/27/2019	11/8/2019	No
Completion of CD 5.5 – Replacement of Switchgear and rehabilitation of Wel well Pump Station No. 0415	Section VI, para. 19(i)	9/2/2019	11/13/2019	No
Completion of CD CIP 5.18 Upgrade of PSs #0441, 0491, 0710, 0827, 0852, 1236	Section VI, para. 19(i)	12/13/2019	11/18/2019	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
Submit Third Annual FOG Control Program Review Report	Section VI, para. 19(a)	6/30/2020	6/30/2020
Post Third Annual FOG Control Program Review Report in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
Submit 2019 Quarterly Report No. 4	Section IX, para. 32	1/31/2020	1/31/2020
Post 2019 Quarterly Report No. 4 in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
Submit 2019 Semi-Annual Report No. 2	Section IX, para. 33	1/31/2020	1/31/2020
Post 2019 Semi-Annual Report No. 2 in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
Submit 2020 Quarterly Report No. 1	Section IX, para. 32	5/1/2020	5/1/2020
Post 2020 Quarterly Report No. 1 in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
CD CIP 2.2 Building Improvements	Section VI, para. 19(i)	9/26/2019	4/30/2020
CD CIP 2.22 Pump Station 2	Section VI, para. 19(i)	5/25/2019	4/25/2020
CD CIP 2.19 Co-Gen Improvements	Section VI, para. 19(i)	5/21/2020	Fall 2020
CD CIP 5.3 Upgrade of PS 0692	Section VI, para. 19(i)	6/17/2020	6/17/2020

Table 1-3 is an “Issues Log” which includes issues that have been identified by WASD, Department of Regulatory and Economic Resources-Division of Environmental Resources Management (“RER-DERM”), EPA or FDEP with 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	7/20/17	At the July 20, 2017 EPA/FDEP/WASD CD Program Update Meeting, WASD proposed a scope modification for CIP 5.9 Replacement of Plumbing and Electrical Equipment at PS #0301.	The scope modification request for CD CIP 5.09, to include the construction of a new Submersible PS, exceeds the CD description and as such will require a revision to the CD Appendix-D CIP 5.09 schedule. After the presentation, EPA/FDEP requested a formal request for the proposed change. On July 28, 2017, the County sent EPA/FDEP an official scope modification request for CD CIP 5.09 Replacement of Plumbing and Electrical Equipment. On October 16, 2019, the County re-distributed the scope modification for CD 5.9 letter as requested by EPA. This item is pending final decision.
2	2/13/18	<p>On February 13, 2018, the County advised EPA, FDEP and DOJ that the Public Document Repository (PDR) site would be migrated to a Microsoft cloud-based system.</p> <p>WASD communicated to EPA and FDEP that their Public Information Office (PIO) will continue to provide access to deliverables digitally. Upon request for hard copies, the PIO will provide in accordance with public records law.</p> <p>The County continued developing the cloud-based system to meet all the PDR CD requirements. The migration is still in progress.</p>	<p>On February 14, 2018, EPA, DOJ and FDEP did not object to the proposed migration. Once effective, this migration of PDR site will be included in the next Status Report to the Court.</p> <p>On August 1, 2019, the County electronically notified the EPA and FEP that the PDR was unavailable to the public for an estimated 4 days due to a server failure. The new cloud-based PDR system was put into production on July 31, 2019 and by August 1, 2019 most of the library was restored. On October 4, 2019, the County submitted a letter detailing the timeline of the breach in PDR compliance.</p>

Table 1-3 Issues Log

Item	Date	Description	Resolution/Clarification/Decision
3	4/19/18	<p>At the April 2018 CD Program Update Meeting, WASD mentioned that there will be an amendment to the County Ordinance regarding the time a business must connect to a public lateral. In line with federal laws, it will be modified to reflect one year. There is reference in Appendix E Supplemental Environmental Project Plan of the CD, however, indicating a different timeframe, i.e. "Pursuant to existing regulations, businesses will have ninety (90) days to abandon their septic systems and connect to the public laterals."</p>	<p>EPA stated there may be a need to change that language in the CD and that the matter would be discussed with the Department of Justice (DOJ). On December 19, 2019, the County provided SEP CD Language to EPA that is under consideration by DOJ. This item is pending final decision.</p>
4	4/19/18	<p>At the January 24, 2017 monthly meeting, WASD mentioned that the Ocean Outfall Legislation Program is in the process of developing the Conceptual Memorandum. After the development of that Report the change of scope for CD CIP 2.14 CDWWTP Digesters Plant 1 will be submitted to EPA/FDEPA. At the April 2018 CD Program Update Meeting, WASD reported that the complete rehabilitation of Plant 2 Clusters 1, 2, and 3 under CD 2.15 will provide full digestion treatment capacity required for CDWWTP and no improvement for CD 2.14 is anticipated for both the CD and Ocean Outfall Legislation Program (OOL). EPA/FDEP requested that WASD submits a Request for Material Change for CD CIP 2.14.</p>	<p>WASD submitted a Request for Material Change for CD CIP 2.14 to EPA/FDEP on May 21, 2018. The County requested that CD CIP 2.14 be cancelled and deleted from Appendix D-2 of the CD. This item is pending final decision.</p>

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 Reports, 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 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 one (1) month after the first two (2) calendar quarters following the Effective Date of the CD, and one (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 was 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 (2) 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), (j) 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 construction of the SEP reached completion on December 26, 2018, ahead of the CD Compliance deadline of November 18, 2019. The County installed at least seven thousand six hundred sixty (7,660) linear feet of new gravity sewer mains within an industrial area which currently has no access to sanitary sewers and relies on septic systems.

The County through RER-DERM, issued the Notice of Required Connection (NORC) letters to formally inform the property-owners the system is completed and ready for connection. The SEP Completion Report was submitted on the CD Compliance deadline of December 18, 2019.

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 enacted a law requiring all wastewater facilities in southeast Florida utilizing ocean outfalls for disposal of treated wastewater to reduce nutrient load discharges, cease the normal use of outfalls, and expand reuse systems, all by the end of 2025. The primary approach to reduce outfall use is to install new injection wells at North and Central District Wastewater Treatment Plants (WWTPs).

The EPA, FDEP, and Miami-Dade County acknowledged that the County's implementation of the OOL may impact the scope of scheduling certain capital improvement projects identified in the 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 Consent Decree as set forth in Section XX (Modification). The following progress was completed during the reporting period.

- The Central District WWTP design phase is proceeding. Two design consultants are beyond the 30 percent design level. The change in flow projections have affected the schedule for completing the 60 percent design documents. The site plan conceptual design improvements are finished, and additional coordination with the other designs is underway. WASD received approval to use the industrial well system from the Underground Injection Control (UIC) section at FDEP and the new system started operation in November. Work has started on drilling new Class I municipal injection wells at this WWTP.
- The conceptual design of the North District WWTP improvements is 100 percent complete and provided to FDEP. WASD began negotiating design contracts for the planned work. The municipal wells at North District WWTP are under design (60 percent completed), and a draft UIC construction permit has been received from FDEP.

Appendix A Work Progress Tables

Appendix B Project Schedules Gantt Chart

Appendix C
CMOM Program:
Financial Analysis Program Report



2019 Semi-Annual Report No. 2 (Eleventh Semi-Annual Report)

July 1, 2019 through December 31, 2019

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



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Acronyms and Abbreviations

AASIS	Active As-built Supplemental Information Systems
AC	Asbestos Cement
BODR	Basis of Design Report
CD	Consent Decree
CDWWTP	Central District Wastewater Treatment Plant
CIP	Capital Improvement Project
CIPP	Cured in Place Pipe
CMOM	Capacity, Management, Operations and Maintenance
County	Miami-Dade County
DOJ	Department of Justice
EFT	Electronic Funds Transfer
EPA	Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
FM	Force Main
FMOPMARP	Force Main Operations, Preventative Maintenance and Assessment/Rehabilitation Program
FM R/R P	Force Main Rehabilitation/Replacement Program
FOG	Fats, Oils and Grease
FSE	Food Service Establishments
GDO	Grease Discharge Operations
GIS	Geographic Information System
GPD	Gallons per Day
GPM	Gallons per Minute

Acronyms and Abbreviations (continued)

GSS	Gravity Sewer System
I/I	Inflow/Infiltration
IMS	Information Management System
LF	Linear Foot
LWT	Liquid Waste Transporters
MGD	Million Gallons per Day
N/A	Not Applicable
NDWWTP	North District Waste Water Treatment Plant
NPDES	National Pollutant Discharge Elimination System
OOL	Ocean Outfall Legislation
PDR	Public Document Repository
PS	Pump Station
PSOPMP	Pump Station Operations and Preventative Maintenance Program
R & R	Renewal and Replacement
RER-DERM	Department of Regulatory and Economic Resources-Division of Environmental Resources Management
RTU	Remote Telemetry Unit
SCADA	Supervisory Control and Data Acquisition
SDWWTP	South District Waste Water Treatment Plant
SEP	Supplemental Environmental Project
SORP	Sewer Overflow Response Plan
SSAMP	Sewer System Asset Management Program
SSO	Sanitary Sewer Overflow
VFD	Variable Frequency Drive

Acronyms and Abbreviations (continued)

VSC	Volume Sewer Customer
WASD	Miami-Dade Water and Sewer Department
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 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, 2019 through December 31, 2019), and also provides projections for significant projects and activities anticipated to be completed in the next two calendar quarters (January 1, 2020 through June 30, 2020).

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 (WASD) that are required to be tracked and reported by Subparagraph 19(j)(v) of the CD and the Policy Resolutions.

All CD requirements were met for the previous two calendar quarters, with the exception of a breach in Public Document Repository availability and meeting the final deadlines for three Appendix D Capital Improvement Projects (CIP): 1) CIP 5.1 – Upgrade of Pump Station No. 0418 (October 22, 2019) which achieved construction completion on November 8, 2019, and 2) CIP 5.5 – Replacement of Switchgear and Rehabilitation of Wet Well Pump Station No. 0415 (September 2, 2019) which achieved construction completion on November 13, 2019 and 3) CIP 2.2(2) – Repairs to Various Buildings (September 26, 2019) which is in the construction phase.

During this reporting period, the County experienced a breach in compliance when the server on which the Public Document Repository (PDR) failed. Public Access to the PDR was interrupted for an estimated four days. The County notified electronically the EPA and FDEP on August 1, 2019. On October 4, 2019, the County submitted a detailed timeline of the events in the Public Document Repository Breach in Compliance Letter.

In accordance with Section IX, Paragraph 52 of the CD, on October 21, 2019, the County notified EPA/FDEP of a Delay Notification for CD CIP 5.1 – Upgrade of Pump Station No. 0418 due to delays that occurred during the construction phase. On December 30, 2019, the County issued a

Notification of Completion Letter to the EPA and FDEP to advise that CD CIP 5.1 achieved construction completion on November 8, 2019.

In accordance with Section IX, Paragraph 52 of the CD, on October 2, 2019, the County notified EPA/FDEP of the Failure to Meet Compliance Date for CD CIP 5.5 – Replacement of Switchgear and Rehabilitation Wet Well Pump Station 0415 due to delays that occurred during the construction phase. On December 30, 2019, the County issued a Notification of Completion Letter to the EPA and FDEP to advise that CD CIP 5.5 achieved construction completion on November 13, 2019.

In accordance with Section IX, Paragraph 52 of the CD, the County previously submitted to EPA and FDEP a Force Majeure notification and a Project Update for CD CIP 2.2(2), on May 11, 2017 and November 3, 2017, respectively. On January 22, 2019, the County submitted the Potential Delay Notification Letter due to additional delay encountered in the re-design and re-permitting. On September 25, 2019, the County notified EPA and FDEP of a Failure to Meet CD Compliance Date for CD 2.2(2) – Repairs to Various Buildings due to delays that occurred during the construction phase. The anticipated completion date is April 30, 2020.

The County continues to be fully engaged with the successful implementation and compliance of the CD. First, with the continued development and implementation of the nine new CMOM Program (CD Section VI, Paragraph 19) all of which have been approved. Second, with the execution of the eighty-one (81) capital improvement projects included in Appendix D which have an approximate total cost of \$1.93 billion, and the Supplemental Environmental Project (SEP) included in Appendix E. As of this reporting period, forty-one (41) projects with a total cost of \$449 million have reached substantial completion and thirty-three (33) projects with an approximate total cost of \$1.3 billion are currently in the procurement and construction phases.

The projects, activities and milestones achieved, and the deliverables submitted to EPA/FDEP are listed in Table 1-1 (page 3). The upcoming projects, activities, milestones, and deliverables for the next two calendar quarters are listed in Table 1-2 (page 5). Additional program and project information is included in the Work Progress 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 CD 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
Continue implementing existing Spare Parts Program	Section VI, para. 18(d)	Ongoing	Ongoing	Yes
Continued Implementation of Sanitary Sewer Overflow (SSO) Identification and Reporting	Section VI, para. 19(b)	Within 24 hours and 5 days of known occurrence	Ongoing	Yes
Submit Second Annual FOG Control Program Review Report	Section VI, para. 19(a)	N/A	7/1/2019	Yes
Post Second Annual FOG Control Program Review Report in PDR	Section IX, para. 36	1 business day after submittal	7/1/2019	Yes
Submit 2019 Quarterly Report No. 2	Section IX, para. 32	7/30/2019	7/30/2019	Yes
Post 2019 Quarterly Report No. 2 in PDR	Section IX, para. 36	1 business day after submittal	7/31/2019	Yes
Submit 2019 Semi-Annual Report No. 1	Section IX, para. 33	7/30/2019	7/30/2019	Yes
Post 2019 Semi-Annual Report No. 1 in PDR	Section IX, para. 36	1 business day after submittal	7/31/2019	Yes
Submit Potential Force Majeure due to Hurricane Dorian	Section XI, para. 52 & Section XVII, para. 77	9/13/2019	9/13/2019	Yes
Post Potential Force Majeure due to Hurricane Dorian in PDR	Section V, para. 9	1 business day after submittal	9/13/2019	Yes

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)
Submit Project Update and Failure to Meet CD Compliance Date for CD CIP 2.2(2) – Repairs to Various Buildings	Section XI, para. 52 & Section XVII, para. 77	9/26/2019	9/25/2019	Yes
Post Project Update and Failure to Meet CD Compliance Date for CD CIP 2.2(2) – Repairs to Various Buildings in PDR	Section V, para. 9	1 business day after submittal	9/25/2019	Yes
Submit Failure to Meet Compliance Date for CD 5.5 – PS 0415	Section XI, para. 52 & Section XVII, para. 77	9/2/2019	10/2/2019	No
Post Failure to Meet Compliance Date for CD 5.5 – PS 0415 in PDR	Section V, para. 9	1 business day after submittal	10/2/2019	Yes
Submit Public Document Repository Breach in Compliance Letter	Section V, para. 9 and Section XI para.52	N/A	10/4/2019	Yes
Post Public Document Repository Breach in Compliance Letter in PDR	Section V, para. 9	1 business day after submittal	10/4/2019	Yes
Submit Delay Notification and Failure to Meet Compliance Date Letter for CD CIP 5.1 PS 0418	Section XI, para. 52 & Section XVII, para. 77	10/22/2019	10/21/2019	Yes
Post Delay Notification and Failure to Meet Compliance Date Letter for CD CIP 5.1 PS 0418 in PDR	Section V, para. 9	1 business day after submittal	10/21/2019	Yes
Submit 2019 Quarterly Report No. 3	Section IX, para. 32	10/30/2019	10/30/2019	Yes
Post 2019 Quarterly Report No. 3 in PDR	Section IX, para. 36	1 business day after submittal	10/30/2019	Yes
Submit Notification of Completion for CD 5.2 – Decommissioning of PS 0691 Letter	Section VI, para. 19(i)	N/A	12/5/2019	Yes
Post Notification of Completion for CD 5.2 – Decommissioning of PS 0691 Letter in PDR	Section IX, para. 36	1 business day after submittal	12/5/2019	Yes

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)
Submit SEP Completion Report	Section VII and Appendix E	12/18/2019	12/18/2019	Yes
Post SEP Completion Report in PDR	Section IX, para. 36	1 business day after submittal	12/18/2019	Yes
Submit Notification of Completion for CD 5.1 PS 0418	Section VI, para. 19(i)	N/A	12/30/2019	Yes
Post Notification of Completion for CD 5.1 PS 0418 Letter in PDR	Section IX, para. 36	1 business day after submittal	12/30/2019	Yes
Submit Notification of Completion for CD 5.5 PS 0415	Section VI, para. 19(i)	N/A	12/30/2019	Yes
Post Notification of Completion for CD 5.5 PS 0415 Letter in PDR	Section IX, para. 36	1 business day after submittal	12/30/2019	Yes
Completion of CD CIP 1.1 Headworks at SD WWTP	Section VI, para. 19(i)	2/23/2020	11/6/2019	Yes
Completion of CD CIP 2.4 Headworks Plant 1	Section VI, para. 19(i)	8/23/2019	8/13/2019	Yes
Completion of CD CIP 2.21 Pump Station No. 1 at CDWWTP	Section VI, para. 19(i)	2/26/2021	12/19/2019	Yes
Completion of CD 5.1 – Upgrade of Pump Station No. 0418	Section VI, para. 19(i)	10/22/2019	11/8/2019	No
Completion of CD 5.2 – Decommissioning of Pump Station 0691	Section VI, para. 19(i)	1/27/2019	11/8/2019	No
Completion of CD 5.5 – Replacement of Switchgear and rehabilitation of Wel well Pump Station No. 0415	Section VI, para. 19(i)	9/2/2019	11/13/2019	No
Completion of CD CIP 5.18 Upgrade of PSs #0441, 0491, 0710, 0827, 0852, 1236	Section VI, para. 19(i)	12/13/2019	11/18/2019	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
Submit Third Annual FOG Control Program Review Report	Section VI, para. 19(a)	6/30/2020	6/30/2020
Post Third Annual FOG Control Program Review Report in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
Submit 2019 Quarterly Report No. 4	Section IX, para. 32	1/31/2020	1/31/2020
Post 2019 Quarterly Report No. 4 in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
Submit 2019 Semi-Annual Report No. 2	Section IX, para. 33	1/31/2020	1/31/2020
Post 2019 Semi-Annual Report No. 2 in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
Submit 2020 Quarterly Report No. 1	Section IX, para. 32	5/1/2020	5/1/2020
Post 2020 Quarterly Report No. 1 in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
CD CIP 2.2 Building Improvements	Section VI, para. 19(i)	9/26/2019	4/30/2020
CD CIP 2.22 Pump Station 2	Section VI, para. 19(i)	5/25/2019	4/25/2020
CD CIP 2.19 Co-Gen Improvements	Section VI, para. 19(i)	5/21/2020	Fall 2020
CD CIP 5.3 Upgrade of PS 0692	Section VI, para. 19(i)	6/17/2020	6/17/2020

Table 1-3 is an “Issues Log” which includes issues that have been identified by WASD, Department of Regulatory and Economic Resources-Division of Environmental Resources Management (“RER-DERM”), EPA or FDEP with 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	7/20/17	At the July 20, 2017 EPA/FDEP/WASD CD Program Update Meeting, WASD proposed a scope modification for CIP 5.9 Replacement of Plumbing and Electrical Equipment at PS #0301.	The scope modification request for CD CIP 5.09, to include the construction of a new Submersible PS, exceeds the CD description and as such will require a revision to the CD Appendix-D CIP 5.09 schedule. After the presentation, EPA/FDEP requested a formal request for the proposed change. On July 28, 2017, the County sent EPA/FDEP an official scope modification request for CD CIP 5.09 Replacement of Plumbing and Electrical Equipment. On October 16, 2019, the County re-distributed the scope modification for CD 5.9 letter as requested by EPA. This item is pending final decision.
2	2/13/18	<p>On February 13, 2018, the County advised EPA, FDEP and DOJ that the Public Document Repository (PDR) site would be migrated to a Microsoft cloud-based system.</p> <p>WASD communicated to EPA and FDEP that their Public Information Office (PIO) will continue to provide access to deliverables digitally. Upon request for hard copies, the PIO will provide in accordance with public records law.</p> <p>The County continued developing the cloud-based system to meet all the PDR CD requirements. The migration is still in progress.</p>	<p>On February 14, 2018, EPA, DOJ and FDEP did not object to the proposed migration. Once effective, this migration of PDR site will be included in the next Status Report to the Court.</p> <p>On August 1, 2019, the County electronically notified the EPA and FEP that the PDR was unavailable to the public for an estimated 4 days due to a server failure. The new cloud-based PDR system was put into production on July 31, 2019 and by August 1, 2019 most of the library was restored. On October 4, 2019, the County submitted a letter detailing the timeline of the breach in PDR compliance.</p>

Table 1-3 Issues Log

Item	Date	Description	Resolution/Clarification/Decision
3	4/19/18	<p>At the April 2018 CD Program Update Meeting, WASD mentioned that there will be an amendment to the County Ordinance regarding the time a business must connect to a public lateral. In line with federal laws, it will be modified to reflect one year. There is reference in Appendix E Supplemental Environmental Project Plan of the CD, however, indicating a different timeframe, i.e. "Pursuant to existing regulations, businesses will have ninety (90) days to abandon their septic systems and connect to the public laterals."</p>	<p>EPA stated there may be a need to change that language in the CD and that the matter would be discussed with the Department of Justice (DOJ). On December 19, 2019, the County provided SEP CD Language to EPA that is under consideration by DOJ. This item is pending final decision.</p>
4	4/19/18	<p>At the January 24, 2017 monthly meeting, WASD mentioned that the Ocean Outfall Legislation Program is in the process of developing the Conceptual Memorandum. After the development of that Report the change of scope for CD CIP 2.14 CDWWTP Digesters Plant 1 will be submitted to EPA/FDEPA. At the April 2018 CD Program Update Meeting, WASD reported that the complete rehabilitation of Plant 2 Clusters 1, 2, and 3 under CD 2.15 will provide full digestion treatment capacity required for CDWWTP and no improvement for CD 2.14 is anticipated for both the CD and Ocean Outfall Legislation Program (OOL). EPA/FDEP requested that WASD submits a Request for Material Change for CD CIP 2.14.</p>	<p>WASD submitted a Request for Material Change for CD CIP 2.14 to EPA/FDEP on May 21, 2018. The County requested that CD CIP 2.14 be cancelled and deleted from Appendix D-2 of the CD. This item is pending final decision.</p>

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 Reports, 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 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 one (1) month after the first two (2) calendar quarters following the Effective Date of the CD, and one (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 was 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 (2) 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), (j) 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 construction of the SEP reached completion on December 26, 2018, ahead of the CD Compliance deadline of November 18, 2019. The County installed at least seven thousand six hundred sixty (7,660) linear feet of new gravity sewer mains within an industrial area which currently has no access to sanitary sewers and relies on septic systems.

The County through RER-DERM, issued the Notice of Required Connection (NORC) letters to formally inform the property-owners the system is completed and ready for connection. The SEP Completion Report was submitted on the CD Compliance deadline of December 18, 2019.

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 enacted a law requiring all wastewater facilities in southeast Florida utilizing ocean outfalls for disposal of treated wastewater to reduce nutrient load discharges, cease the normal use of outfalls, and expand reuse systems, all by the end of 2025. The primary approach to reduce outfall use is to install new injection wells at North and Central District Wastewater Treatment Plants (WWTPs).

The EPA, FDEP, and Miami-Dade County acknowledged that the County's implementation of the OOL may impact the scope of scheduling certain capital improvement projects identified in the 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 Consent Decree as set forth in Section XX (Modification). The following progress was completed during the reporting period.

- The Central District WWTP design phase is proceeding. Two design consultants are beyond the 30 percent design level. The change in flow projections have affected the schedule for completing the 60 percent design documents. The site plan conceptual design improvements are finished, and additional coordination with the other designs is underway. WASD received approval to use the industrial well system from the Underground Injection Control (UIC) section at FDEP and the new system started operation in November. Work has started on drilling new Class I municipal injection wells at this WWTP.
- The conceptual design of the North District WWTP improvements is 100 percent complete and provided to FDEP. WASD began negotiating design contracts for the planned work. The municipal wells at North District WWTP are under design (60 percent completed), and a draft UIC construction permit has been received from FDEP.

Appendix A Work Progress Tables

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 Program	The Adequate Pumping, Transmission and Treatment Capacity Program is being implemented in accordance with Paragraph 18(a) of the CD. This program was undertaken to ensure that adequate transmission and treatment capacity exists within the County. Pursuant to Appendix A of the CD; monthly capacity certification reports are prepared by RER-DERM and kept on file by WASD. Upon request, these reports will be provided to EPA/FDEP.	<p>1. Continued with the monitoring and tracking of the monthly Elapsed Time (ET) submittals by each Volume Sewer Customer Utility.</p> <p>2. Placed under Initial Moratorium (IM) Pump Station basins that exceeded the maximum 10 hours pursuant to the Nominal Average Pump Operating Time (NAPOT).</p> <p>3. Placed under Incomplete Moratorium (IN) Pump Station basins that failed to submit ET readings or not submitted by the 14th of the following month, as required by the Miami-Dade County Code.</p> <p>4. Continued to use the WEB application for the monthly submittal and tracking of the ET readings to automatically place pump station basins under Incomplete Moratorium (IN) every time a Triplicate Reading was detected.</p> <p>5. Continued generating the monthly NAPOT Status & Sewer Allocation reports for all Utilities and Building Officials. All Utilities and Building Officials were notified how to access the NAPOT Status and were provided a copy of the Allocation report.</p> <p>6. Sewer Allocations were de-allocated manually for municipalities according to their monthly reports as submitted to RER-DERM.</p> <p>6.1 Completed automatic de-allocations of reserved flows for projects that are 10 yrs or more in the system.</p> <p>7. Held two (2) Quarterly Utility Round Table (URT) Meetings with all Utilities and/or Utility Representatives to discuss/review compliance issues.</p>	<p>1. Continue monitoring and tracking of the monthly Elapsed Time (ET) submittals by each Volume Sewer Customer Utility.</p> <p>2. Continue placing under Initial Moratorium (IM) Pump Station basins that exceed the maximum 10 hours pursuant to the Nominal Average Pump Operating Time (NAPOT).</p> <p>3. Continue placing under Incomplete Moratorium (IN) Pump Station basins that that fail to submit ET readings or do not submit them by the 14th of the following month, as required by the Miami-Dade County Code.</p> <p>3.1. Coordinate with IT and Code Enforcement group in order to automate enforcement when utilities fail to submit Data on time.</p> <p>4. Continue to use the WEB application for the monthly submittal and tracking of the ET readings to automatically place pump station basins under Incomplete Moratorium (IN) every time a Triplicate Reading is detected.</p> <p>4.1. Coordinate with IT and Code Enforcement group in order to automate enforcement when utilities fail to submit Data on time.</p> <p>5. Continue generating the monthly NAPOT Status & Sewer Allocation reports to Utilities and Building Officials. The report provides Moratorium status for each PS basin within the Utility service area.</p> <p>6. Continue manually de-Allocations for all municipalities according to their completed monthly reports submitted to RER-DERM.</p> <p>6.1. Continue coordination with IT Department to create a WEB Application to allow Building Officials to report on-line the monthly De-Allocation report.</p> <p>7. Will hold two (2) Quarterly Utility Round Table (URT) Meetings with all Utilities and/or Utility Representatives to discuss/review compliance issues.</p>

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 Program (continued)	The Adequate Pumping, Transmission and Treatment Capacity Program is being implemented in accordance with Paragraph 18(a) of the CD. This program was undertaken to ensure that adequate transmission and treatment capacity exists within the County. Pursuant to Appendix A of the CD; monthly capacity certification reports are prepared by RER-DERM and kept on file by WASD. Upon request, these reports will be provided to EPA/FDEP.	8. Continued to use the PS system/database to track PS basins, new or upgraded with 26 HP or larger, required to submit ET readings for ALL-PUMPS ON and Midnight-to 5 am hours.	8. Continue requiring/notifying all Utilities that propose or upgrade PS with 26 HP pumps, or larger, to submit ET readings for ALL-PUMPS ON and Midnight-to 5 am hours.
			9. Continued to review Sanitary Sewer System Evaluations or Amendments as submitted by the utilities. PS moratoriums were reverted as the utilities demonstrated compliance with the SSES, Code requirement of 5,000 GPDIM. 9.1 Assisted one utility to field verify compliance with the SSES, Code requirement of 5,000 GPDIM for two (2) PS basins.	9. Continue to review Sanitary Sewer System Evaluations or Amendments when submitted by the utilities. PS moratoriums will be reverted as the utilities demonstrate compliance with the SSES, Code requirement of 5,000 GPDIM.
			10. Received update of the Water & Sewer As-Built / Atlas from Utility. Utilities were notified that a more detailed review of the submittals was to be performed.	10. Continue the review the GIS Water & Sewer As-Built / Atlases submitted by each Utility in January-2020 to assure compliance with Code requirements. Atlases are used by staff to determine Adequate Pumping, Transmission and Treatment capacity.
			11. Updated Moratorium status of PS basins for which the utility completed and certified the Corrective Action Plan(s) (CAP) to bring basin Nominal Average Pump Operating Time (NAPOT) below the 10 hours.	11. Continue Updating Moratorium status of PS basins for which the utilities completed and certified the Corrective Action Plan(s) (CAP) to bring basin Nominal Average Pump Operating Time (NAPOT) below the 10 hours.
			12. Initiated Electronic reviews for construction permits pertaining to new or upgrades of Domestic Wastewater Collection and transmission systems under the jurisdiction of the County's Miami-Dade Water and Sewer Department (WASD).	12. Continue electronic reviews for construction permits for new or upgrades of Domestic Wastewater Collection and transmission systems under the jurisdiction of the County's Miami-Dade Water and Sewer Department (WASD).
			13. Coordinated with WASD to establish and implement CONCURRENT reviews for new or upgrades of Domestic Wastewater Collection and transmission systems under the jurisdiction of the County's Miami-Dade Water and Sewer Department (WASD).	13. Continue with CONCURRENCY reviews for new or upgrades of Domestic Wastewater Collection and transmission systems under the jurisdiction of the County's Miami-Dade Water and Sewer Department (WASD).
				14. Continue coordination with IT Department to create a WEB Application to allow Building Officials to report the monthly De-Allocation report.

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(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. The pump station monitoring system shall continuously monitor, report and transmit data.	Work on the program has been ongoing.	Work on the program is ongoing and will continue beyond June 30, 2020.
18(c)	Wastewater Collection and Transmission System 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.	<p>The CD PMCM team performed hydraulic modeling evaluations to assess the effect of modifications to the WASD sewer collection system as a result of CD projects on operating conditions of the WASD WCTS. Evaluations were completed for the following CD projects: 5.09 and 4.09 (48-53, 63).</p> <p>-CD Project 5.09 includes relocation and replacement of PS0301. On an emergency basis WASD replaced the pumps at the existing PS0301. These pumps are proposed to run for eighteen months until the completion of the CD Project 5.09. The information on the temporary pump curves was updated in the hydraulic model to reflect the field conditions for existing scenario.</p> <p>-CD Project 4.09 includes replacement of ACP pipe in the WASD force main system. CD Project 4.09 (48-53, 63) includes replacement of ACP pipe from SW 142 Avenue and SW 288 Street to SW 123 Court and SW 258 Street. The impact of replacing a small section of about 77 feet pipe from 12-inch to 16-inch was evaluated. The evaluation was documented in technical memorandums and submitted to WASD.</p>	<p>Continue to support design and construction teams through hydraulic modeling evaluations to assess the effect of modifications to the WASD sewer collection system as a result of CD projects on operating conditions of the WASD WCTS.</p> <p>Continue the update of WCTS Hydraulic Model network geometry in order to match the current conditions of the system, these updates include addressing discrepancies identified in the model network through evaluation of as-built drawings, equipment O&M information and GIS data.</p> <p>-As part of this effort WCTS effective model inflows will be updated based on WASD's 2019 Water Billing Data</p> <p>This effort constitutes the compliance with Section VI, Paragraph (18).(c).(iv) of the Consent Decree.</p>

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)	Wastewater Collection and Transmission System Model (Continued)	<p>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.</p>	<p>In addition to the efforts associated with CD Project validation and permitting, the CD PMCM team continued the update of WCTS Hydraulic Model network geometry in order to match the current conditions of the system. These updates included addressing discrepancies identified in the model network through evaluation of as-built drawings, equipment O&M information and GIS data. The updates include:</p> <ul style="list-style-type: none"> -Addition of PS1145 and PS1147 to the WASD WCTS network. -Removal of PS0678 to accommodate the addition of PS1145. -Updated PS1008 based on the upgrades proposed by PSIP Team. -The CD PMCM team delivered an updated version of the WASD WCTS effective model to WASD Planning division which incorporated all the changes listed above. -Pump Station Dashboard that provides a detailed summary/overview of the pump station results for existing scenario annual average daily flow condition was delivered along with the effective model. <p>This effort constitutes the compliance with Section VI, Paragraph (18).(c).(iv) of the Consent Decree.</p>	<p>Continue efforts to update hydraulic model with information available for improvement projects associated with Consent Decree, WASD Master Plan, Pump Station Improvement Program as well as New Development Projects in an effort to maintain the most up to date projection scenarios for years 2020, 2025 and 2035 in the WASD hydraulic model.</p>
18(d)	Spare Parts Program	<p>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.</p>	<p>Work on the program has been ongoing.</p>	<p>The existing program will be enhanced as the new CMOM Programs are implemented. Work on the program is ongoing and will continue beyond June 30, 2020.</p>

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 VSC Program and the VSC Ordinance were amended in accordance with Paragraph 18(e) of the CD. 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. Revisions are to be made to the VSC Program and the VSC Ordinance and submitted to EPA/FDEP for approval prior to implementation.	2. Placed under Moratorium Pump Station (PS) basins under the jurisdiction of the Volume Sewer Customer utilities that exceeded the maximum 10 hours pursuant to the Nominal Average Pump Operating Time (NAPOT).	2. Continue placing under Moratorium Pump Station (PS) basins under the jurisdiction of the Volume Sewer Customer utilities that exceed the maximum 10 hours pursuant to the Nominal Average Pump Operating Time (NAPOT).
			3. Placed under Incomplete Moratorium (IN) Pump Station basins under the jurisdiction of the Volume Customer utilities that failed to submit ET readings, or not submitted, by the 14th of the following month, as required by the Miami-Dade County Code.	3. Continue placing under Incomplete Moratorium (IN) Pump Station basins under the jurisdiction of the Volume Customer utilities that fail to submit ET readings, or do not submit, by the 14th of the following month, as required by the Miami-Dade County Code. 3.1. Coordinate with IT and Code Enforcement group in order to automate enforcement when volume sewer utilities fail to submit Data on time.
			4. Updated Moratorium status of PS basins under the jurisdiction of the Volume Sewer Customer utilities for which the utility completed and certified the Corrective Action Plan(s) (CAP) to bring basin Nominal Average Pump Operating Time (NAPOT) below the 10 hours.	4. Continue updating Moratorium status of PS basins under the jurisdiction of the Volume Sewer Customer utilities for which the utilities complete and certify the Corrective Action Plan(s) (CAP) to bring basin's Nominal Average Pump Operating Time (NAPOT) below the 10 hours.
			5. Submitted to each Volume Sewer Customer Utility the monthly Certification of Nominal Average Pump Operating Time (NAPOT) Status Report. Moratoriums were placed accordingly.	5. Continue to generate and submit to each Volume Sewer Customer Utility the monthly Certification of Nominal Average Pump Operating Time (NAPOT) Status.
			6. Continued to use the PS system/database to track PS basin Moratoriums related to SSOs.	6. Continue to use the PS system/database to track PS basin Moratoriums related to SSOs.
			7. Issued enforcement letters or RFIs for SSO events reported or documented by DERM personnel, as needed.	7. Continue to issue enforcement letters or Requests for Information (RFIs) for SSO events reported or documented by DERM personnel, as needed.

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 (continued)	The VSC Program and the VSC Ordinance were amended in accordance with Paragraph 18(e) of the CD. 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. Revisions are to be made to the VSC Program and the VSC Ordinance and submitted to EPA/FDEP for approval prior to implementation.	8. Continued to review the Volume Sewer Customer's Sanitary Sewer System Evaluations (SSES), or Amendments, submitted by the Volume Sewer Customer utilities.	8. Continue to review the Volume Sewer Customer's Sanitary Sewer System Evaluations (SSES), or Amendments, as submitted.
			Moratoriums status were reverted as the utilities demonstrated compliance with the SSES, Code requirement of 5,000 GPDIM.	PS moratoriums will be reverted if the utilities demonstrate compliance with the 5,000 GPDIM SSES Code requirement or the moratorium status remains if the utility does demonstrate compliance.
			9. Followed-up on the enforcement action against City of Opa-Locka for repeat SSOs during this period and established an inspection coordination effort to prevent new SSOs.	9. Continue enforcement action against any utility that experiences repeat SSOs and implement monitoring and/or inspections, as needed, with the intent to prevent or minimize SSOs.
			10. Continued closed coordination with City of Opa-Locka management regarding the Consent Agreement (CA) completed and signed by the City officials for repeat SSOs during previous periods. The CA outlined actions to prevent SSOs and to complete needed rehabilitation to bring the sanitary sewer collection/transmission system into full compliance.	10. Continue coordination with the DERM Enforcement Group to assure the Volume Sewer Customer Utility of Opa-Locka complies with the CA specific requirements and deadlines to bring the utility into full compliance. The DERM Enforcement group will determine if a CA addendum is necessary.
				11. If needed, re-establish a close monitoring of the WCTS of Opa-Locka to assure system is operating under normal conditions.
			12. Conducted two (2) meetings with the Municipal Officials, including the City Manager and the Mayor, to review the WCTS status.	12. As needed, schedule additional meetings with the City and Utility officials.
			13. Implemented automatic De-Allocations of reserve flows that have been in the database for 10 years or more. This process provided additional flow capacity for new/future developments.	13. Continue to De-Allocate reserved flows that have been in the database for 10 years or more. This process provided additional flow capacity for new/future developments.
14. All Volume Sewer Customer utilities and/or representatives were again reminded about Sanitary Sewer Overflow (SSO) requirements at the Utility Round Table meetings	14. Continue to use the URT meeting to share with all Volume Sewer Customer utilities about Code Requirements, Compliance status, and ways to improve efficiency in all programs involving.			

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 (continued)	The VSC Program and the VSC Ordinance were amended in accordance with Paragraph 18(e) of the CD. 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. Revisions are to be made to the VSC Program and the VSC Ordinance and submitted to EPA/FDEP for approval prior to implementation.	15. Reviewed Annual and Semi-annual reports submitted by the Volume Sewer Customer Utilities, which include Illicit Stormwater Connections, SSES and CMOM work related reports.	15. Review the Annual or semi-annual reports as submitted by the Volume Sewer Customer Utilities, for Illicit Stormwater Connections, SSES and CMOM work related reports.
			16. Notified all Volume Sewer Customer Utilities about the GIS Water & Sewer As-Built / Atlases submittal requirements and guidelines changes/updates.	16. Review in detail the GIS Water & Sewer As-Built / Atlases submitted by each Volume Sewer Customer Utility in January-2020 to assure compliance with Code requirements.
				17. Complete review of the Sanitary Sewer System Model Survey/Report received from each Volume Sewer Customer Utilities. Enforcement actions to be implemented accordingly.
			18. Complete the review of televising reports received from the utilities within the COI.	

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 Fats, Oils and Grease (FOG) Control Program is being implemented in accordance with Paragraph 19(a) of the CD. DERM is responsible for implementing and managing the FOG Control Program which regulates industrial and commercial sources of FOG. The Program involved the review, evaluation and revision of the County's previous FOG Control Program. An updated FOG Control Program and accompanying FOG Ordinance were approved by EPA and FDEP on September 7, 2017 and enacted by The Board of County Commissioners on February 21, 2018. The FOG Ordinance became effective March 5, 2018.	1. Provided updated in-house training to FOG Control Technicians and Inspectors.	1. Provide updated in-house training to FOG Control Technicians and Inspectors.
			2. Updated and distributed "Did You Know" flyers. Flyers were distributed by DERM Plan Review, FOG Technicians/Inspectors, and Liquid Waste Transporters.	2. Update and distribute Outreach flyers. Flyers will be distributed by DERM Plan Review, FOG Technicians/Inspectors, and Liquid Waste Transporters.
			3. Continued FOG Outreach, including workshops (e.g., West Coast Inspectors Workshop, and FOG and Utility Round Table meetings).	3. Continue FOG Outreach, including West Coast Inspectors Workshop, and FOG and Utility Round Table meetings.
			4. Continued to receive monthly hauled waste disposal data from MD-WASD and Pompano/Broward using the eManifest system. Assigned FOG Inspectors to run eManifest Reports and schedule inspections based on findings.	4. Continue to receive monthly hauled waste disposal data from MD- WASD and Pompano/Broward. Assign FOG Inspectors to run eManifest Reports and schedule inspections based on findings.
			5. Updated FSE FOG Operating Permit (GDO) conditions, and included training requirements.	5. Review FSE FOG Operating Permit (GDOs) conditions and update accordingly.
			6. Continued enforcement (and compliance assistance) with NGTs Food Service Establishments (FSE). Completed 92%.	6. Continue enforcement (and compliance assistance) with NGTs Food Service Establishments (FSE). Goal is to achieve 100% compliance by June 2019. Facilities that remain out of compliance (8%) continue to be under enforcement.
			7. Discussed potential updates to the Liquid Waste Transporter (LWT) permit conditions.	7. Review LWT Permit conditions and update accordingly.
			8. Monitored "NO COMMINGLING of FOG" (implemented April 1, 2017) at the South District Wastewater Treatment Plant. Inspections include 1 day per week and one Saturday per month.	8. Continue monitoring "NO COMMINGLING of FOG" and take enforcement actions to correct violations, as applicable. Perform inspections at the South District Wastewater Treatment Plant. Inspections include 1 day per week and one Saturday per month.
			9. Continued to receive eManifest from LWTs. LWTs not submitting eManifest were advised that their operating permit would not be renewed.	9. Continue compliance assistance and enforcement for LWTs not using eManifest and/or operating without a valid operating permit.

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 (Continued)	<p>The Fats, Oils and Grease (FOG) Control Program is being implemented in accordance with Paragraph 19(a) of the CD. DERM is responsible for implementing and managing the FOG Control Program which regulates industrial and commercial sources of FOG. The Program involved the review, evaluation and revision of the County's previous FOG Control Program. An updated FOG Control Program and accompanying FOG Ordinance were approved by EPA and FDEP on September 7, 2017 and enacted by The Board of County Commissioners on February 21, 2018. The FOG Ordinance became effective March 5, 2018.</p>	<p>10. Continued to perform and track FOG Construction Inspections, and to document inspection results to improve FOG Plan Review procedures.</p> <p>11. Continued to track FOG Hot Spots and identify sources(s) and root cause(s). Continued to collect monthly accelerated FOG maintenance reports from utilities.</p> <p>12. Continued to work with equipment manufactures to get FOG Control Devices approved for FOG2.0.</p> <p>13. Implemented FOG related tasks associated with LW-ST2.0 Liquid Waste Transportation & Disposal Guidance Manual, including reviewing random/flagged/other waste sampling reports and cross-referencing eManifest records to identify potential sources of non-complying waste. Also, reviewed monthly FOG facility effluent sampling data for parameter trends. Updated training requirements for disposal facilities.</p> <p>14. Continued to track/record Key Performance Indicators and Performance Measures to evaluate and improve the FOG Control Program, to be used for the 3rd FOG Control Program Annual Review Report.</p> <p>15. Developed or approved training programs for 2019 permitting cycle for LWTs and Disposal Facilities.</p> <p>16. Initiated a- Public Outreach program in collaboration with MDC-WASD.</p> <p>17. Contacted local business improvement districts (BIDs) to improve the outreach for businesses.</p> <p>18. Continued working in collaboration with municipalities to reduce FOG impact in the Collection system, including sharing information and resources. Specifically City of Miami Beach, Town of Medley and Coral Gables.</p>	<p>10. Continue to perform and track FOG Construction Inspections. Document inspection results to improve FOG Plan Review procedures. Work on developing an on-line FOG Construction Inspection portal.</p> <p>11. Continue to track FOG Hot Spots and identify sources(s) and root cause(s). Take enforcement as required to remedy FOG Hot Spots. Complaints will be reviewed and prioritized for inspections accordingly.</p> <p>12. Continue to work with equipment manufactures to get FOG Control Devices approved for FOG2.0.</p> <p>13. Continue to random/flagged/other waste sampling reports and cross-referencing eManifest records to identify potential sources of non-complying waste, according with the LW-ST2.0 Liquid Waste Transportation & Disposal Guidance Manual. Also, review monthly FOG facility effluent sampling data for parameter trends. Also includes updating training requirements for disposal facilities.</p> <p>14. Continue to track/record Key Performance Indicators and Performance Measures to evaluate and improve the FOG Control Program, to be used for the 4th FOG Control Program Annual Review Report.</p> <p>15. Develop or approve training programs for 2020 permitting cycle for LWTs and Disposal Facilities.</p> <p>16. Continue preparing and implement Public Outreach program outline and schedule in collaboration with MDC-WASD. Implementation of the Residential outreach program due by March 5, 2020.</p> <p>17. Coordinate meetings with local business improvement districts (BIDs) to improve the outreach for businesses.</p> <p>18. Continue working in collaboration with municipalities to reduce FOG impact in the Collection system, including sharing information and resources. Specifically City of Miami Beach, Town of Medley and Coral Gables.</p>

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 (Continued)	The Fats, Oils and Grease (FOG) Control Program is being implemented in accordance with Paragraph 19(a) of the CD. DERM is responsible for implementing and managing the FOG Control Program which regulates industrial and commercial sources of FOG. The Program involved the review, evaluation and revision of the County's previous FOG Control Program. An updated FOG Control Program and accompanying FOG Ordinance were approved by EPA and FDEP on September 7, 2017 and enacted by The Board of County Commissioners on February 21, 2018. The FOG Ordinance became effective March 5, 2018.	19. Continued quarterly coordination meetings with the disposal facility (WASD) for the Liquid Waste Transporters program.	19. Continue quarterly coordination meetings with the disposal facility (WASD) for the Liquid Waste Transporters program.
			20. Continued enforcement (and compliance assistance) with FSEs to procure compliance with the current regulations. This includes unpermitted facilities, as well as existing facilities with FOG discharges over the minimum allowed, or not complying with operating permit conditions.	20. Continue enforcement (and compliance assistance) with FSEs to procure compliance with the current regulations. This includes unpermitted facilities, as well as existing facilities with FOG discharges over the minimum allowed, or not complying with operating permit conditions.
			21. Planned to implement annual routine inspections to the current 7,424 GDO permitted facilities.	21. Plan to implement annual routine inspections to the current 7,424 GDO permitted facilities, pending approval of additional staff.
			22. Collected data for Hot Spots from utilities and continued to perform complaints inspections.	22. Begin Hot Spot inspections and continue complaints inspections. Estimated as 336 inspections per year, pending approval of additional staff.
			23. Planned to implement inspections to residential areas identified by the Utilities as potential sources of FOG blockages.	23. Implement inspections to residential areas identified by the Utilities as potential sources of FOG blockages, pending approval of additional staff.
			24. Performed inspections of facilities found operating, previously reported as closed.	24. Begin confirmation inspections to facilities reported as closed. Estimated that 50% of the total 4,912 facilities are expected to be inspected in 2020, pending approval of additional staff.
			25. Continued reviewing OL/CU/LBTR applications for FSEs. To assure compliance with FOG Control Program regulations.	25. Continue reviewing OL/CU/LBTR applications for FSEs. To assure compliance with FOG Control Program regulations.
			26. Continued reviewing construction plans for FSEs, to assure compliance with current regulations codified under 24-42.6(8) and (9).	26. Continue reviewing construction plans for FSEs, to assure compliance with current regulations codified under 24-42.6(8) and (9).
				27. Finalize and implement FOG Accelerated Maintenance Application.
	28. Continue inspections in response to SSO's due to grease			

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(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.	Work on the program was ongoing: 1. Continued all required SSO reporting 2. Continued holding monthly SSO evaluation meetings 3. Continued the development of Consolidated SSO Database, including the Building Backup Application.	Work on the program will include the activities listed in the CMOM Implementation Schedule and will continue beyond June 30, 2020.
19(c)	Information Management System Program	The IMS Program is being developed in accordance with Paragraph 19(c). This Program 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.	Work on the program was ongoing: 1. Continued working on transitioning PCTS software from Proliance to e-Builder, to enhance Construction Contracts Management project close-out business practices. 2. Continued the development of CMOM performance measures and KPI tracking.	Work on the program will include the activities listed in the CMOM Implementation Schedule and will continue beyond June 30, 2020.
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.	<p>1. Manhole rim and pipe inverts and their inclusion into GIS - Completed. Updates continue as part of the GIS data maintenance process.</p> <p>2. Streamlining the manual as-built to GIS process to satisfy 90 day requirement – Completed. Improvements continue as opportunities arise.</p> <p>3. GIS to Hydraulic Model Integration to satisfy 90 day requirement from GIS to Model – Completed. Updates continue</p> <p>4. GIS Training Refresher Program - Ongoing.</p> <p>5. Electronic As-Built Submittal - Completed.</p> <p>6. GIS to Water Model Interface - Completed. Improvements continue as opportunities arise.</p>	<p>New SPIDER manhole scanner equipment beginning field implementation. GIS integration testing in progress with updates to continue.</p> <p>The GIS integration of all projects conveyed and activated are being tracked. The metrics will be reported in the 2019 Annual Report.</p> <p>The GIS Hydraulic Model integration of all projects conveyed and activated are being tracked. The metrics will be reported in the 2019 Annual Report.</p> <p>Training courses continue to be offered on a monthly basis or for specific teams as requested.</p> <p>Testing new CAD and GIS validation and process enhancements for streamlining initial data review.</p> <p>Implemented validation checks and reporting. Updates to continue.</p>

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(d)	Sewer System Asset Management Program	The Sewer System Asset Management Program is being developed in accordance with Paragraph 19(d). This 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.	Work on the program was ongoing.	Work on the Program will include the activities listed in the CMOM Implementation Schedule and will continue beyond June 30, 2020.
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. The program will facilitate proper operation and maintenance activities associated with gravity mains in the WCTS.	Work on the program was ongoing: 1. Continued to deploy Smart Covers to "hot spots" to closely monitor and prevent SSOs. 2. CCTV contract to inspect for gravity sewer mains for Pump Station was awarded	Work on the program will include the activities listed in the CMOM Implementation Schedule and will continue beyond June 30, 2020.
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.	Work on the program was ongoing.	Work on the program will include the activities listed in the CMOM Implementation Schedule and will continue beyond June 30, 2020. Implementation of upgrades to the Division's electronic asset management system to include Problem, Failure, Action, and Cause codes, and Preventative Maintenance schedules.
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. The Force main Rehabilitation/Replacement Program includes standard procedures for repairing, rehabilitating and replacing force mains.	Work on the Program was ongoing: 1. The Force Main Assessment Program is pending approval of the Criticality Assessment and Prioritization Report (submitted to the EPA/FDEP on July 17, 2018). 2. Project to develop a GIS layer documenting FM easements has been initiated and is on-going	Work on the Program will include the activities listed in the CMOM Implementation Schedule and will continue beyond June 30, 2020. Reinspection cycle for 60-inch and 66-inch PPCP pipes to be initiated..

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(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.	<p>Work on the program was ongoing:</p> <ol style="list-style-type: none"> 1. Continued random collection of hauled waste as a standard practice. The random sample collection practice and procedures used at the SDWWTP are in accordance with EPA's Handbook Guidance Manual for Control of Hauled Wastes EPA 833 B 98 003, Section 24-42.4 of the Miami-Dade Code, and the Hauled Waste Guidance Manual. 2. RER-DERM/WASD Coordination Meetings were held at SD WWTP on July 10, 2019 and October 18, 2019 to discuss Hauled Waste Program and any issues or concerns related to illicit hauled waste or discharges to the plant or collection system. 	<p>Work on the Program will include the activities listed in the CMOM Implementation Schedule and will continue beyond June 30, 2020.</p> <p>RER-DERM/WASD Coordination Meeting will be held at SD WWTP on January 15, 2020 and April 8, 2020 to discuss Hauled Waste Program and any issues or concerns related to illicit hauled waste or discharges to the plant or collection system.</p>
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.	Work on the program was ongoing. Financial Analysis Program Report, which includes the expenditures for both operating and capital from FYTD April 1 - September 2019 can be found in Appendix C. Although the reporting period (April - September) the report includes the entire fiscal year (October 1, 2018 - September 30, 2019)	Work on the program will be ongoing and will continue beyond June 30, 2020.

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.	Procurement and construction were completed. Screen #1 and Screen #3 were completed at Plant 2. Screen #3 were completed at Plant 1. This project reached substantial completion on November 6, 2019 ahead of CD compliance date of February 23, 2020.	N/A
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.	Construction continued.	Construction will continue.
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 three child projects: (1) for the structural rehab of the trains, (2) for the electrical building expansions and mixer upgrades (OOL) and (3) oxygenation train - SS 5/6 and SS 15/16 (OOL).	1.3(1) Procurement Train 4 Oxygenation tanks structural rehab was completed. Construction commenced. 1.3(2) Design for Electrical Building Expansion and Oxygenation Trains Mixer Upgrades was completed. Permitting commenced. 1.3(3) Design for oxygenation train - SS 5/6 and SS 15/16 continued.	1.3(1) Construction for Train 4 Oxygenation tanks structural rehab will be completed. 1.3(2) Permitting for Electrical Building Expansion and mixer upgrade will be completed. Procurement will commence. 1.3(3) Design for oxygenation train - SS 5/6 and SS 15/16 will be completed. Permitting will commence and be completed.
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.	Design was completed and permitting continued.	Permitting will be completed and procurement will commence.
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 three separate child projects: (1) structural rehabilitation of the effluent pump wet wells; (2) the building improvements and equipment for the remaining pumps (1-6); (3) the electrical equipment associated with pumps 7,8 and 9.	1.5(1) Procurement of wetwells # 3 & 4 was completed. Construction of Wetwells # 3 & 4 commenced. 1.5(2) Procurement was completed and construction commenced. 1.5(3) Completed on January 23, 2016.	1.5(1) Construction of Wetwells # 3 & 4 will be completed. 1.5(2) Construction will continue.
1.6	Gravity Sludge Thickeners	The SDWWTP Gravity Sludge Thickeners project will be performed pursuant to Paragraph 19(i) and Appendix D. The objective of this project is to provide a combined Thickening and Dewatering facility under one common building. The existing sludge concentrators will be abandoned and a centrifuge thickening system will be utilized. This project is being performed under design-build delivery method.	Procurement continued. (Bid cancellation on May 30, 2018. Project was readvertised in November, 2018.)	Procurement will be completed. Design/Build Construction will commence.

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 unstable sludge that will require landfill disposal.	Construction continued.	Construction 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. This project is being performed under design-build delivery method.	Procurement continued. (Bid cancellation on May 30, 2018. Project was readvertised in November, 2018.)	Procurement will be completed. Design/Build Construction 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.	This project reached substantial completion on March 26, 2019 ahead of the CD compliance date of May 24, 2019.	N/A
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.	Design and permitting continued.	Design and permitting will be completed. Procurement will commence.
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. This project schedule has been broken down into multiple child/sub projects to better reflect the way the work is being executed: 1.1) SDWWTP Substation 9-12; 1.2) Generator Repairs; 2) Replacement of primary feeders from Main Switchgear A & B to Effluent Pump Station Pumps 1-6	1.11(1.1) Procurement (Re-Bid) continued. 1.11(1.2) Procurement continued. 1.11(2) Procurement was completed and construction commenced.	1.11(1.1) Procurement (Re-Bid) will be completed and construction will commence. 1.11(1.2) Procurement will be completed. Construction will commence. 1.11(2) Construction 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
1.12	Chlorine Contact Chamber Structural Rehabilitation	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. This project was split into two child projects: 1.12(1) Chlorine Contact Chamber Actuator Replacement; and 1.12(2) Chlorine Contact Chamber Structural Rehab & Sluice Gates Replacement.	1.12(1) Actuator Replacement reached substantial completion on June 5, 2018. 1.12(2) Procurement for Structural rehab. of contact chambers # 3 and #4 was completed. Construction for or Structural rehab. of contact chambers # 3 and #4 commenced	1.12(2) Construction for Structural rehab. of contact chambers # 3 and #4 will be completed. Procurement for Structural rehab. of contact chamber #2 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
2.1	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. This project schedule has been broken down into multiple components more accurately reflect the way the work is being executed: 1) CDWWTP General Electric In-house Construction - Substations 1 and 2. 2) Substations 3, 4A, 4B, 5 & 6 – This work is part of Project 2.27(2). 3) Substations 9 & 10 - This work is part of Project 2.10(1). 4) Substations 11 & 12 – This work is part of project 2.11. 5) Substations 15 & 16 – This work is part of Project 2.15(1). 6) Substations 17 & 18 – This work is part of Project 2.19(2a). 7) Substations 7A, 8A, 9A & 10A	Note: The majority of this work will be done in conjunction with other CD projects. 2.1(1) Construction Sub-Stations 1 & 2 Completed on May 5, 2016. 2.1(2) Construction continued. 2.1(3) Construction continued. 2.1(4) Procurement was completed and construction commenced. 2.1(5) Construction continued. 2.1(6) Construction was completed. 2.1(7) Permitting was completed and procurement commenced.	2.1(2) Construction will continue. 2.1(3) Construction will continue. 2.1(4) Construction will continue. 2.1(5) Construction will continue. 2.1(7) Procurement will be completed and construction will commence.
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 has been split into child projects. 1a) Building Improvements - Administration Building Asbestos Abatement. 1b) Administration Building Interior Improvements 1c) Miscellaneous Roof Improvements 2) Remodel Bathrooms, Locker Rooms & Showers.	2.2(1a) Completed on June 1, 2015. 2.2(1b) Construction was completed on January 17, 2018. 2.2(1c) Completed on October 19, 2016. 2.2(2) Construction activities suspended on October 31, 2017. Contractor terminated for convenience on June 7, 2018. Re-Bid of Project. NTP issued April 15, 2019. Construction continued.	2.2(2) Construction will be completed
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 reached substantial completion on March 7, 2019 ahead of the CD compliance date of March 16, 2019.	N/A
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 reached substantial completion on August 13, 2019 ahead of CD compliance date of August 23, 2019.	N/A
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. Mixer retrofits were completed in early 2014. Structural rehabilitation work for Train #2 and Train #3 were performed by WASD in-house forces during the dry seasons.	This project reached substantial completion on June 22, 2018 ahead of the CD compliance date of April 12, 2019.	N/A

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
2.6	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 for Train #2 structural rehab was completed and construction commenced. Procurement for Train #4 structural rehab continued.	Construction for Train #2 structural rehab will be completed. Procurement for Train #4 structural rehab 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. This project has been split in 3 child projects: 1) Secondary Clarifiers Plant 1 RAS pump discharge piping. 2) Secondary Clarifiers Plant 1 Train Mechanisms. 3) Secondary Clarifiers Plant 1 Structural Rehab.	2.7(1) Design and permitting continued. 2.7(2) Construction continued. 2.7(3) Procurement and construction continued.	2.7(1) Design and permitting will be completed. 2.7(2) Construction will continue. 2.7(3) Procurement and construction will continue.
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, replace the sludge collection mechanisms in the plant and provide electrical equipment for new annex building. This project has been split into three child projects: 1) RAS pump discharge piping, 2) Train Mechanisms, and 3) Structural Rehab.	2.8(1) Construction continued. 2.8(2) Construction continued. 2.8(3) Procurement and construction continued.	2.8(1) Construction will continue. 2.8(2) Construction will continue. 2.8(3) Procurement and construction will continue.
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. Work on this project will be performed in conjunction with Project 2.7.	Design was completed. Permitting continued.	Permitting will be completed and Procurement will commence.
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. This project has been split into 2 separate child projects: 1) Return Sludge PS Plant 2 - RAS Pump, 2) Return Sludge PS Plant. 2 - RAS Line.	2.10(1) Construction continued. 2.10(2) Construction of RAS Header Pipe was completed on July 7, 2017.	2.10(1) Construction will continue.
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 motors and related electrical equipment in the effluent pump station.	Procurement was completed. Construction commenced.	Construction 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
2.12	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. The objective of this project is to provide a combined Thickening and Dewatering facility under one common building. The existing sludge concentrators will be abandoned and a centrifuge thickening system will be utilized. This project will be performed in conjunction with projects 2.13 and 2.16 under a design-build delivery method.	Procurement continued. (Bid cancellation on May 30, 2018. Project was readvertised in November, 2018.)	Procurement will be completed. Design/Build Construction will commence.
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. The existing sludge concentrators will be abandoned and a centrifuge thickening system will be utilized. This project will be performed in conjunction with projects 2.12 and 2.16 under a design-build delivery method.	Procurement continued. (Bid cancellation on May 30, 2018. Project was readvertised in November, 2018.)	Procurement will be completed. Design/Build Construction will commence.
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 unstable sludge that will require landfill disposal. This project has been split into 2 different child projects; 2.14(1) refers to digesters in cluster 1 and 2.14(2) refers to digesters in cluster 2.	On May 21, 2018, the County requested a Material Change to CD to cancel this project. Request under EPA/FDEP consideration.	Pending consideration of EPA/FDEP.
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 unstable sludge that will require landfill disposal. This project has been split into 4 different child projects; 2.15(1) refers to digesters in cluster 1; 2.15(2) refers to digesters in cluster 2; 2.15(3) refers to digesters in cluster 3; and 2.15(4) refers to digesters in cluster 4.	2.15(1) Construction continued. 2.15(2) Construction continued. 2.15(3) Procurement temporarily suspended pending Cluster 1 or 2. 2.15(4) Child project deleted as approved by EPA.	2.15(1) Construction will continue. 2.15(2) Construction will continue. 2.15(3) Procurement 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
2.16	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 combined thickening and dewatering facility and sludge cake conveyance system to the sludge storage buildings. This project is being performed under design-build delivery method.	Procurement continued. (Bid cancellation on May 30, 2018. Project was readvertised in November, 2018.)	Procurement will be completed. Design/Build Construction will commence.
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.	This project reached substantial completion on July 27, 2018 ahead of the CD compliance date of October 15, 2018.	N/A
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. This project will be completed in conjunction with other related projects. A portion of this project 2.18(1) Headworks Odor Controls System, will be performed earlier in coordination with the Headworks projects (2.3/2.4). The remainder will be performed in coordination with the Dewatering project (2.16).	2.18(1) Construction continued. 2.18(2) Procurement continued. (Bid cancellation on May 30, 2018. (Project was readvertised in November, 2018.)	2.18(1) Construction will be completed. 2.18(2) Procurement will be completed. Design/Build Construction will commence.
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 separate "child" projects: 1) Co-Gen Generator Replacement, 2a) Co-Gen Biogas Treatment Facilities, and 2b) Co-Gen Restroom and Building Rehab.	2.19(1) Completed on January 27, 2016. 2.19(2a) Construction continued. 2.19(2b) Construction continued.	2.19(2a) Construction will continue. 2.19(2b) Construction will be completed.
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.	Motion to delete Project 2.20 Septage Uploading at CD WWTP has been approved by the Court on December 28, 2016.	N/A

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
2.21	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.	Construction was completed on December 20, 2019 ahead of the CD compliance date of February 26, 2021.	N/A
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.	Construction continued.	Construction will be completed.
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.	Construction was completed on April 25, 2016 ahead of the CD compliance date March 9, 2017.	N/A
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.	Construction was completed on September 29, 2017.	N/A
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. This project schedule has been broken down into multiple components to more accurately reflect the way the work is being executed: 1) HVAC Improvements for air scrubber (Project 2.12, 2.13 and 2.16) 2) Headworks HVAC Improvements (Project 2.3/2.4). 3) Digester Control Building HVAC Improvements (Project 2.15(1)). 4) Pump Station 1 HVAC Improvements (Project 2.21). 5) Pumps Station 2 HVAC Improvements (Project 2.22).	2.25(1) Procurement continued 2.25(2) Construction was completed. 2.25(3) Construction continued. 2.25(4) Construction was completed. 2.25(5) Construction continued.	2.25(1) Procurement will be completed and construction will commence. 2.25(2) N/A 2.25(3) Construction will be completed. 2.25(4) N/A 2.25(5) Construction will be completed.
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. Work is being performed by in-house WASD resources.	Construction continued.	Construction 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
2.27	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. This project was split into 2 "child" projects: 1) Oxygen Production Site Preparation, and 2) Oxygen Production Design-Build.	2.27(1) Oxygen Production Site Preparation was completed on June 29, 2017. 2.27(2) Design-Build continued.	2.27(2) Design-Build will continue.
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 was completed as of February 10, 2014 ahead of the CD compliance date March 29, 2014.	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.	Completed. Work started February 2013 and was completed June 5, 2014 ahead of the CD compliance date June 24, 2014.	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 two-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.	Construction was completed on December 6, 2017 ahead of the CD compliance date of April 7, 2018.	N/A
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, replacement of the mechanisms, installation of new flat type covers at each clarifier. It also involves the rehabilitation of the mechanical and odor control systems at the plant. This project was split into 2 child projects: 1) Replace Primary Clarifiers for Mechanisms #4 & 6, and 2) Primary Clarifiers and Odor Control (Remaining Scope of Work).	3.2(1) Construction was completed on February 20, 2019. 3.2(2) Construction continued.	3.2(2) Construction 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.	Design continued. Permitting commenced.	Design and permitting will continue. Procurement will commence.
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.	Design continued.	Design will continue. Permitting and procurement will commence.
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. This project was split into 2 child projects: 3.5(1) Replace Mechanisms # 1-10; and 3.5(2) Remaining Scope of Work.	3.5(1) This child project was completed on March 30, 2017. 3.5(2) Construction continued.	3.5(1) N/A 3.5(2) Construction will continue.
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.	Construction continued.	Construction 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. All of the 3.07 work has been combined into a single project. The Deep Injection Well (DIW) mechanical and electrical equipment is being managed by WASD Plant Staff. The CD scope is limited to pumps 5-6, where pumps 1-4 will be funded through the overall WASD CIP.	The Ocean Outfall Pump Station rehabilitation was completed in March 2015. Construction of DIW Pump Station was completed on June 29, 2018.	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
3.8	Plant Wide Electrical	<p>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. This project schedule has been broken down into multiple child/sub projects to better reflect the way the work is being executed:</p> <p>1) NDWWTP General Electrical In House Construction Feeders 1 and 2 have been replaced.</p> <p>2) Electrical Feeders 3-6 Feeders 3-6 will be replaced in conjunction with Project 3.1.</p> <p>3) Electrical Feeders 7-8 Feeders 7 and 8 will be replaced along with Projects 3.3 & 3.4.</p> <p>4) Electrical Feeders 9-10 & 13-14 Feeders 11 & 12 were completed due to recent upgrades performed on the deep injection well pump motors.</p>	<p>3.8(1) General Electrical In-house construction (Feeders 1-2) was completed on January 15, 2016.</p> <p>3.8(2) Electrical Feeders 3-6 (Project 3.1) was completed on December 6, 2017.</p> <p>3.8(3) Electrical Feeders 7-8 designed continued (scope considered under CD 3.3 and CD 3.4)</p> <p>3.8(4) Design was completed.</p>	<p>3.8(1) N/A</p> <p>3.8(2) N/A</p> <p>3.8(3) Electrical Feeders 7-8 design will be completed</p> <p>3.8(4) Permitting and procurement will commence.</p>
3.9	Flood Mitigation	<p>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.</p>	<p>This project was completed on June 24, 2016, ahead of the CD compliance date of August 13, 2017.</p>	N/A
3.10	Yard Piping Replacement	<p>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.</p>	<p>Project was completed on May 24, 2016, ahead of the CD compliance date of December 4, 2021.</p>	N/A
3.11	SCADA RTU Upgrades	<p>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.</p>	<p>Project was completed on November 26, 2014, ahead of the CD compliance date March 24, 2015.</p>	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.	Work on this project will continue.
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.	Project was completed on the CD compliance date of 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. The Government Cut FM Phase 3 (Norris Cut Utility Relocation Project) is comprised of the following; the existing 54" force main underneath Norris Cut between Fisher Island and the Central District Wastewater Treatment Plant (CDWWTP), on Virginia Key, will be replaced with a new 60" force main lowered to elevation minus (-) 67.50 feet mean sea level. A new 8" force main will be constructed from Pump Station 170, on Fisher Island, connecting to the new 60" force main near the tunnel receiving shaft. The 60" pipeline alignment will be constructed via segmental tunnel trenchless technology, and open cut trenching method. The 8" pipeline alignment will be constructed via horizontal directional drilling (HDD) trenchless methodology.	Project was completed on November 23, 2016, ahead of the CD compliance date of April 8, 2017.	N/A
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.	Construction was completed on May 5, 2016 ahead of the CD compliance date of March 5, 2018.	N/A
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.	Project was completed on September 14, 2018 ahead of the CD compliance date of December 23, 2018.	N/A
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 CD compliance date of October 29, 2016.	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
4.7	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.	Construction was completed on December 7, 2015 ahead of the CD compliance date of April 9, 2017.	N/A
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.	Construction of CD CIP 4.8 was completed on June 16, 2017.	N/A
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. This project has been divided into multiple sub/child projects. See individual status of each project in Table A-4.2.	Design, permitting, procurement were completed. Construction continued. See individual status of each project in Table A-4.2.	Construction will continue. See individual status of each project in 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 inch 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 has been split into four (4) child/sub projects. 1) Includes rehab of an existing 48" FM east of the Opa-Locka Airport. 2) Includes two (2) miles of open cut 54" DIP FM pipe along airport.	4.10(1) Construction was completed on October 27, 2017. 4.10(2) Construction was completed on May 11, 2018.	N/A

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.	Cut and Plug Procurement was completed and construction commenced.	Construction will continue.
2	8	NE 14 Ave. & 191 St.	NE 14 Ave. & Miami Gardens Dr.	Cut and Plug Procurement was completed and construction commenced.	Construction will continue.
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 completed on August 18, 2017.	N/A
7	10	NW 52 Ct. & NW 190 St.	NW 52 Ave. & NW 189 Ter.	This project was completed on August 18, 2017.	N/A
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 completed on August 7, 2015.	N/A
10	12	NW 29 Ct. & NW 199 St.	NW 30 Pl. & NW 199 St.	This project was completed on August 7, 2015.	N/A
11	8	NW 29 Ct. & NW 199 St.	NW 28 Ave. & NW 199 St.	This project was completed on August 7, 2015.	N/A
12	6	PS 374	NW 28 Ave. & NW 199 St.	This project was completed on August 7, 2015.	N/A
13	12	NW 30 Pl. & NW 199 St.	NW 37 Ave. & NW 199 St.	This project was completed on August 7, 2015.	N/A
14	8	PS 368	NW 37 Ave. & NW 194 Ter.	This project was completed on June 3, 2015.	N/A
15	4	PS 375	NW 29 Pl. and NW 191 St.	This project was completed on June 3, 2015.	N/A
16	10	PS 427	NW 29 Pl. and NW 191 St.	This project was completed on June 3, 2015.	N/A

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
17	10	NW 29 Pl. and NW 191 St.	NW 32 Ave. & NW 191 St.	This project was completed on June 3, 2015.	N/A
18	6	PS 376	NW 32 Ave. & NW 191 St.	This project was completed on June 3, 2015.	N/A
19	6	PS 377	NW 36 Ave. & NW 183 St.	This project was completed on June 3, 2015.	N/A
20	8	PS 366	NW 42 Pl. & NW 199 Ter.	This project was completed on March 6, 2017.	N/A
21	10	NW 42 Pl. & NW 199 Ter.	NW 39 Ct. & NW 199 St.	This project was completed on March 6, 2017.	N/A
22	6	PS 358	PS 352	This project was completed on March 1, 2017.	N/A
23	8	PS 1022	PS 1072	This project was completed on June 15, 2018.	N/A
24	8	PS 353	NW 48 Ct. & NW 178 Ter.	This project was completed on October 27, 2016.	N/A
25	10	NW 52 Ave. & NW 173 Dr.	NW 52 Ave. & NW 178 Ter.	This project was completed on April 3, 2017.	N/A
26	6	PS 354	NW 52 Ave. & NW 173 Dr.	This project was completed on April 3, 2017.	N/A
27	4	Pvt. PS @ SW 149 Ter.	MH 14 @ PS 719	Cut and Plug Procurement was completed and construction commenced.	Construction will continue.
28	8	PS 786	MH 5 @ PS 785	Cut and Plug Procurement was completed and construction commenced.	Construction will continue.
29	12	PS 811	SW 107 Ave. & SW 76 St.	This project was completed on September 12, 2019.	N/A
30	12	PS 811	SW 102 Ave. & SW 81 St.	This project was completed on September 12, 2019.	N/A
31	10	PS 812	SW 102 Ave. & SW 84 St.	This project was completed on September 12, 2019.	N/A
32	12	SW 107 Ave. & SW 104 St.	SW 107 Ave. & Kendale Blvd.	This project was completed on October 13, 2017.	N/A

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
33	4	Pvt. PS @ 114 Ave. & SW 169 St.	MH 59 @ SW 103 Ave.	This project was completed on August 12, 2016.	N/A
34	10	PS 709	Homestead Ave. & Kumquat St.	Construction continued.	Construction will be completed.
35	6	SW 110 Ave. & Banyan St.	SW 95 Ave. & SW Banyan St.	Construction continued.	Construction will be completed.
36	4	PS 721	US1 & Banyan St.	Construction continued.	Construction will be completed.
37	4	PS 749	PS 731	Construction continued.	Construction will be completed.
38	4	PS 747	US1 & East Indigo St.	Construction continued.	Construction will be completed.
39	10	SW 102 Ave. & SW 176 St.	Homestead Ave. & West Jessamine	Construction continued.	Construction will be completed.
40	8	PS 745	SW 102 Ave. & SW 175 St.	Construction continued.	Construction will be completed.
41	4	PS 731	SW Duval Ave. & West Indigo St.	Construction continued.	Construction will be completed.
42	10	SW 102 Ave. & West Jessamine	US1 & SW 184 St.	Construction continued.	Construction will be completed.
43	12	Homestead Ave. & 180 St.	Railroad St. & SW 184 St.	Construction continued.	Construction will be completed.
44	8	PS 810	SW 118 Pl. & SW 72 St.	Cut and Plug Procurement was completed and construction commenced.	Construction will continue.
45	12	PS 793	SW 118 Pl. & SW 72 St.	Cut and Plug Procurement was completed and construction commenced.	Construction will continue.
46	6	PS 724	SW 106 Ave. & SW 155 St.	Construction continued.	Construction will be completed.
47	8	PS 869	SW 122 Ave. & SW 88 St.	This project was completed on February 1, 2017.	N/A
48	10	PS 1017	SW 123 Pl. & SW 268 St.	This project was completed on September 12, 2019.	N/A
49	10	PS 1029	SW 132 Ave. & 268 St.	This project was completed on September 12, 2019.	N/A
50	8	SW 137 Ave. & SW 268 St.	SW 128 Ave. & 268 St.	This project was completed on September 12, 2019.	N/A
51	10	PS 1028	SW 137 Ave. & 288 St.	This project was completed on September 12, 2019.	N/A
52	10	PS 1027	SW 132 Ave. & 280 St.	This project was completed on September 12, 2019.	N/A
53	8	PS 1018	MH 44A @ SW 132 Ave.	This project was completed on September 12, 2019.	N/A
54	12	SW 137 Ave. & SW 72 St.	SW 142 Ave. & SW 72 St.	Cut and Plug Procurement was completed and construction commenced.	Construction will continue.
55	12	SW 142 Ave. & SW 72 St.	SW 147 Ave. & SW 72 St.	Cut and Plug Procurement was completed and construction commenced.	Construction 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
56	8	PS 864	SW 147 Ave. & SW 72 St.	Cut and Plug Procurement was completed and construction commenced.	Construction will continue.
57	8	SW 142 Ave. & Kendale Lakes Blvd.	SW 140 Ave. & Kendale Lakes Blvd.	Cut and Plug Procurement was completed and construction commenced.	Construction will continue.
58	10	SW 140 Ave. & Kendale Lakes Blvd.	SW 137 Ave. & Kendale Lakes Blvd.	Cut and Plug Procurement was completed and construction commenced.	Construction will continue.
59	12	SW 137 Ave. & Kendale Lakes Blvd.	SW 137 Ave. & SW 81 St.	Cut and Plug Procurement was completed and construction commenced.	Construction will continue.
60	8	PS 1013	PS 1012	This project was completed on August 21, 2019.	N/A
61	10	PS 1012	SW 144 Ave. & SW 280 St.	This project was completed on August 21, 2019.	N/A
62	8	PS 1011	SW 144 Ct. & SW 280 St.	This project was completed on August 21, 2019.	N/A
63	10	SW 147 Ave. & SW 288 St.	SW 134 Pl. & SW 288 St.	This project was completed on September 12, 2019.	N/A
64	6	PS 1009	SW 147 Ave. & SW 296 St.	Cut and Plug Procurement was completed and construction commenced.	Construction will continue.
65	6	PS 1006	PS 1005	Construction continued.	Construction will be completed.
66	8	PS 1002	SW 152 & SW 304 St.	Cut and Plug Procurement was completed and construction commenced.	Construction 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.	Construction completion was achieved on November 8, 2019.	N/A
5.2	Decommissioning 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. In February 2016, the County transmitted a request for modification to EPA and FDEP. The County requested to modify the scope of work to include completion of Homestead Pump Station No.1 and decommissioning of PS 0691 in lieu of upgrading PS 0691. EPA and FDEP approved the request for modification in April 2016.	PS 0691 was decommissioned on November 8, 2019.	N/A
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.	Construction continued.	Construction will be completed.
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 pump station equipment has reached the end of its useful life and a booster station is needed to relieve the pressures and reroute flow away from PS 1310 and PS 0300. The purpose of this project is to convert PS 0414 into a booster type station and rehabilitate and replace the entire facility equipment (pumps, motors, electrical equipment, HVAC, valves, and piping).	Construction was completed on June 11, 2019, ahead of the CD compliance date of June 15, 2019.	N/A
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 pump station equipment has reached the end of its useful life and the wet well structure is badly deteriorated due to H ₂ S. This project involves the rehabilitation and replacement of the entire facility equipment (pumps, motors, electrical equipment, HVAC, odor control, valves, piping and wet well) in PS 0415.	Construction completion was achieved on November 13, 2019.	N/A
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.	Construction was completed on June 11, 2019, ahead of the CD compliance date of June 13, 2019.	N/A
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 rehabilitation and replacement of the entire facility equipment (pumps, motors, electrical equipment, HVAC, odor control, valves, piping and wet well) in PS 0417.	Construction continued.	Construction will be completed.

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
5.8	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 0107.	Construction was completed on February 23, 2018 ahead of CD compliance date of January 27, 2019.	N/A
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 pump station equipment has reached the end of its useful life and a new pump station is needed to address future capacity needs, sea level rise and storm surge. Phase 1 of the project involves the replacement of the pumps, electrical equipment and generators, in addition to rehabilitation of the HVAC equipment of PS 0301. Phase 2 will include the construction of a new submersible pump station.	Permitting and procurement were completed. Construction commenced.	Construction 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 completed on December 8, 2016 ahead of the CD compliance date of May 9, 2018.	N/A
5.11	Installation of 60 inch FM from Kendall Dr. to PS No. 0536	Currently, there is a pressure differential and increase flow transfer between PS 0559 and PS 0536. The purpose of this project was originally to install a 60 inch FM from Kendall Dr. to PS 0536 to eliminate the 42 inch reduction in the 60 inch FM. System reviews and analysis has determined that the installation of a 48 inch cross connection between the existing 72 inch effluent FM to an existing 48 inch force main will accomplish the desired reduction in pressure differential.	Construction was completed on February 13, 2019, ahead of CD compliance date of May 18, 2019.	N/A
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 PS equipment is beyond its useful life and parts are not readily available. This project involves the demolition of the four (4) existing 450 hp pumps (3 two-speed, and 1 with Anvic Drive) and the installation of four (4) new 450 hp pumps and motors, with new VFDs, replacement of electrical switchgear, HVAC and lighting upgrades, expansion of Electrical Room, generator upgrades, and replacement of plug valves and control valves.	Construction was completed on March 25, 2019, ahead of the CD compliance date of March 26, 2019.	N/A
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.	Construction was completed on February 4, 2016, ahead of the CD compliance date of July 20, 2016.	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
5.14	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.	Construction was completed on July 15, 2013, ahead of the CD compliance date of December 31, 2013.	N/A
5.15	Upgrade of PSs Nos. 0065, 0201, 0334, 0374, 0607	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 l/l 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.	This project was completed on December 30, 2015 ahead of the CD compliance date December 31, 2015.	N/A
5.16	Upgrade of PSs Nos.0198, 0437, 0466, 0680	The Upgrade of PSs No. 0198, 0437, 0466, 0680 project is being performed pursuant to Paragraph 19(i) and Appendix D. These pump stations exceed the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. The PS #0198 is being upgraded to include new submersible pumps in a new triplex wet well, an electrical upgrade and flow isolation. PS #0437 is being upgraded to include new dry pit submersible pumps, replacement of roughly 100 linear feet of 10" force main to the street connection, and electrical upgrades. PS#0466 is being upgraded to include refurbishment of the existing wet well and repairs to pipes and valves. PS #0680 is being upgraded to include new submersible pumps, new valve box, electrical upgrades and a new generator with sub-base tank. This project has been divided into four (4) child projects. With the following current statuses: 1) Pump Station No. 0198 Compliance Project. The CD Compliance deadline of December 31, 2016 was not achieved. The PMCM and WASD are working with the Contractor to try and complete the remaining work. 2) Pump Station No. 0437 Upgrade. 3) Pump Station No. 0466 Compliance Project. 4) Pump Station No. 0680 Upgrade.	This project was completed on January 24, 2018.	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
5.17	Upgrade of PSs Nos. 0037, 0351, 0370, 0403	<p>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 is split into four (4) different sub/child projects (one per pump station).</p> <p>5.17(1) Pump Station 0037 Compliance Project 5.17(2) Pump Station No. 0351 Upgrade 5.17(3) Pump Station No. 0370 Upgrade and Installation of FM 5.17(4) Pump Station 0403 Upgrade</p>	<p>This project was completed on April 30, 2018 ahead of CD compliance date of November 20, 2018.</p> <p>5.17(1) PS#0037: Construction was completed on November 14, 2017. 5.17(2) PS#0351: Construction was completed on December 1, 2017. 5.17(3) PS#0370: Construction was completed on January 11, 2018. 5.17(4) PS#0403: Construction was completed on April 30, 2018.</p>	N/A
5.18	Upgrade of PSs Nos. 0441, 0491, 0710, 0827, 0852, 1236	<p>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 is split into six (6) different sub/child projects.</p> <p>1) Pump Station 0441 Upgrade 2) Pump Station 0491 Compliance Project 3) Pump Station 0710 Compliance Project 4) Pump Station 0827 Compliance Project 5) Pump Station 0852 Compliance Project 6) Pump Station 1236 Compliance Project – Consent Decree requirements for this project were accomplished and received EPA certification for Substantial Completion. PS#1236 has maintenance issues and will be resolved under phase 2 for which CD deadlines are not applicable.</p>	<p>5.18(1) Construction was completed on August 14, 2019. 5.18(2) Construction was completed on November 15, 2019. 5.18(3) Construction was completed on August 14, 2019. 5.18(4) Construction was completed on November 18, 2019. 5.18(5) Construction was completed on July 26, 2019. 5.18(6) Construction was completed on May 1, 2017.</p>	N/A
5.19	SCADA RTU Upgrades	<p>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.</p>	<p>Construction was completed on November 23, 2015 ahead of the CD compliance date March 18, 2016.</p>	N/A

Appendix B Project Schedules Gantt Chart

Activity ID	Activity Name	Original Duration	Start	Finish	2018				2019				2020				2021				2022				2023				2024				2025				2026			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
WASD Consent Decree Schedule - December 2019 Update																																								
0. General Compliance Activities																																								
Program Milestones																																								
General Compliance Activity																																								
MC10000	Date of Lodging (DOL)	0	06-Jun-13 A	06-Jun-13 A																																				
MC10010	Effective Date - 6 months from DOL	0	06-Jun-13 A	06-Dec-13 A																																				
MC10030	Date of Entry (DOE)	0	09-Apr-14 A																																					
MC10020	CIP Completion Milestone - 15 Years from DOL	0		06-Jun-28*																																				
Reporting Requirements																																								
Quarterly Reports																																								
General Compliance Activity																																								
PM10020	2014 Quarterly Report No 1	25	31-Mar-14 A	24-Apr-14 A																																				
PM10030	2014 Quarterly Report No 2	29	30-Jun-14 A	28-Jul-14 A																																				
PM10050	2014 Quarterly Report No 3	31	30-Sep-14 A	30-Oct-14 A																																				
PM10060	2014 Quarterly Report No 4	31	31-Dec-14 A	30-Jan-15 A																																				
PM10090	2015 Quarterly Report No 1	32	31-Mar-15 A	01-May-15 A																																				
PM10100	2015 Quarterly Report No 2	31	30-Jun-15 A	30-Jul-15 A																																				
PM10120	2015 Quarterly Report No 3	31	30-Sep-15 A	30-Oct-15 A																																				
PM10130	2015 Quarterly Report No 4	29	31-Dec-15 A	28-Jan-16 A																																				
PM50020	2016 Quarterly Report No 1	33	31-Mar-16 A	02-May-16 A																																				
PM50030	2016 Quarterly Report No 2	33	30-Jun-16 A	01-Aug-16 A																																				
PM50040	2016 Quarterly Report No 3	32	30-Sep-16 A	31-Oct-16 A																																				
PM50050	2016 Quarterly Report No 4	32	31-Dec-16 A	31-Jan-17 A																																				
PM50220	2017 Quarterly Report No 1	32	31-Mar-17 A	01-May-17 A																																				
PM50230	2017 Quarterly Report No 2	93	30-Jun-17 A	31-Jul-17 A																																				
PM50240	2017 Quarterly Report No 3	31	30-Sep-17 A	30-Oct-17 A																																				
PM50250	2017 Quarterly Report No 4	32	31-Dec-17 A	30-Jan-18 A																																				
PM50260	2018 Quarterly Report No 1	31	31-Mar-18 A	30-Apr-18 A																																				
PM50270	2018 Quarterly Report No 2	31	30-Jun-18 A	26-Jul-18 A																																				
PM50280	2018 Quarterly Report No 3	31	30-Sep-18 A	30-Oct-18 A																																				
PM50290	2018 Quarterly Report No 4	32	31-Dec-18 A	29-Jan-19 A																																				
PM50580	2019 Quarterly Report No 1	32	31-Mar-19 A	29-Apr-19 A																																				
PM50590	2019 Quarterly Report No 2	31	30-Jun-19 A	30-Jul-19 A																																				
PM50600	2019 Quarterly Report No 3	31	30-Sep-19 A	30-Oct-19 A																																				
PM50610	2019 Quarterly Report No 4	31	31-Dec-19*	30-Jan-20																																				
Semi Annual Reports																																								
General Compliance Activity																																								
PM10040	2014 Semi Annual Report No 1	31	30-Jun-14 A	30-Jul-14 A																																				
PM10070	2014 Semi Annual Report No 2	34	31-Dec-14 A	02-Feb-15 A																																				
PM10110	2015 Semi Annual Report No 1	31	30-Jun-15 A	30-Jul-15 A																																				
PM10150	2015 Semi Annual Report No 2	32	31-Dec-15 A	01-Feb-16 A																																				
PM50060	2016 Semi Annual Report No 1	33	30-Jun-16 A	01-Aug-16 A																																				
PM50070	2016 Semi Annual Report No 2	32	31-Dec-16 A	31-Jan-17 A																																				
PM50300	2017 Semi Annual Report No 1	93	30-Jun-17 A	31-Jul-17 A																																				
PM50310	2017 Semi Annual Report No 2	32	31-Dec-17 A	31-Jan-18 A																																				
PM50320	2018 Semi Annual Report No 1	32	30-Jun-18 A	30-Jul-18 A																																				
PM50330	2018 Semi Annual Report No 2	32	31-Dec-18 A	31-Jan-19 A																																				
PM50620	2019 Semi Annual Report No 1	31	30-Jun-19 A	30-Jul-19 A																																				
PM50630	2019 Semi Annual Report No 2	32	31-Dec-19*	31-Jan-20																																				
Annual Report																																								
General Compliance Activity																																								
PM10080	2014 Annual Report	62	31-Dec-14 A	02-Mar-15 A																																				
PM10140	2015 Annual Report	62	31-Dec-15 A	01-Mar-16 A																																				
PM50080	2016 Annual Report	62	30-Dec-16 A	01-Mar-17 A																																				
PM50340	2017 Annual Report	61	31-Dec-17 A	01-Mar-18 A																																				
PM50350	2018 Annual Report	61	31-Dec-18 A	01-Mar-19 A																																				
PM50640	2019 Annual Report	63	31-Dec-19*	02-Mar-20																																				
Program Management/Construction Management Support																																								
General Compliance Activity																																								
PM50000	Program Management/Construction Management	3549	06-Jun-14 A	22-Feb-24																																				
1. South District WWTP																																								
1.01 Headworks																																								
Engineering Design																																								
SD10100	Engineering Design - SD Headworks	26	02-Feb-15 A	27-Feb-15 A																																				



MIAMI-DADE WATER & SEWER DEPARTMENT CONSENT DECREE PROGRAM SCHEDULE

- █ Summary (Remaining)
- █ Summary (Actual)
- █ Approved EPA Dates
- █ Actual Work
- █ Remaining Work
- █ Critical Rem. Work
- ◆ Milestone
- ▶ WBS Summary

Date	Revision	Checked	Approved
14-Jul-14	Revision 0	GSR	DH
16-Oct-19	Sept 2019 Update		
15-Nov-19	Oct 2019 Update		
19-Dec-19	Nov 2019 Update		
22-Jan-20	Dec 2019 Update		

Activity ID	Activity Name	Original Duration	Start	Finish	2018				2019				2020				2021				2022				2023				2024				2025				2026	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
SD44310	Bids Due for Revised Packages - SD Oxygen Production	0	21-Jun-18 A		◆ Bids Due for Revised Packages - SD Oxygen Production																																	
SD44320	Bid Review Period for Revised Packages - SD Oxygen Production	30	21-Jun-18 A	30-Aug-18 A	■ Bid Review Period for Revised Packages - SD Oxygen Production																																	
SD30200	Award Recommendation - SD Oxygen Production	0	31-Aug-18 A		◆ Award Recommendation - SD Oxygen Production																																	
SD10160	Procurement - SD Oxygen Production	448	28-Nov-16 A	26-Oct-18 A	■ Procurement - SD Oxygen Production																																	
SD30210	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Oxygen Production	28	31-Aug-18 A	26-Oct-18 A	■ Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Oxygen Production																																	
SD41280	Vendor Bid & Award (Control Panels)- SD Oxygen Production	120	11-Dec-15 A	21-May-19 A	■ Vendor Bid & Award (Control Panels)- SD Oxygen Production																																	
SD41290	Vendor NTP (Control Panels)- SD Oxygen Production	0	22-May-19 A		◆ Vendor NTP (Control Panels)- SD Oxygen Production																																	
SD41260	Pre-Purchase Control Panels (Summary) - SD Oxygen Production	640	15-Aug-15 A	31-Jan-20	■ Pre-Purchase Control Panels (Summary) - SD Oxygen Production																																	
SD41300	Fabricate & Deliver Control Panels - SD Oxygen Production	255	22-May-19 A	31-Jan-20	■ Fabricate & Deliver Control Panels - SD Oxygen Production																																	
SD31200	Fabricate & Deliver Air Compressor No. 4 - SD Oxygen Production	433	26-Jul-17 A	16-Mar-20	■ Fabricate & Deliver Air Compressor No. 4 - SD Oxygen Production																																	
SD30000	Pre-Purchase Air Compressors (Summary) - SD Oxygen Production	1006	09-Sep-16 A	11-Dec-20	■ Pre-Purchase Air Compressors (Summary) - SD Oxygen Production																																	
SD41580	Refurbish & Deliver Air Compressor No. 3 - SD Oxygen Production	267	20-Mar-20	11-Dec-20	■ Refurbish & Deliver Air Compressor No. 3 - SD Oxygen Production																																	
Construction					2146 12-Apr-16 A 25-Feb-22																																	
SD41590	Install New Oil/Water Separator (WASD)	43	12-Apr-16 A	24-May-16 A	D) ■ Install New Oil/Water Separator (WASD)																																	
SD42990	EPA Start Date for Construction - SD Oxygen Production	0	01-Oct-17 A		Start Date for Construction - SD Oxygen Production																																	
SD30220	Contractor NTP - SD Oxygen Production	0	07-Jan-19 A		◆ Contractor NTP - SD Oxygen Production																																	
SD41530	Construct New Electrical Building	412	07-Jan-19 A	28-Mar-20	■ Construct New Electrical Building																																	
SD41830	Install Instrumentation and Controls	56	29-Mar-20	23-May-20	■ Install Instrumentation and Controls																																	
SD41540	Install & Test Compressor No. 4	120	17-Mar-20	14-Jul-20	■ Install & Test Compressor No. 4																																	
SD41570	Disassemble, Ship, Refurbish and Return Compressor No. 3	120	16-Jul-20	12-Nov-20	■ Disassemble, Ship, Refurbish and Return Compressor No. 3																																	
SD10260	Construction (Consent Decree) - SD Oxygen Production	770	07-Jan-19 A	22-Mar-21	■ Construction (Consent Decree) - SD Oxygen Production																																	
SD41550	Install & Test Compressor No. 3	101	12-Dec-20	22-Mar-21	■ Install & Test Compressor No. 3																																	
SD10440	Construction Completion Milestone #1 (CD Compliance Date 2/25/22) - SD Oxygen Production	0		22-Mar-21*	◆ Construction Completion Milestone #1 (CD Compliance Date 2/25/22) - SD Oxygen Production																																	
SD41560	Decommission Compressors No. 1 and No. 2	60	23-Mar-21	21-May-21	■ Decommission Compressors No. 1 and No. 2																																	
SD43880	Construction (Non-Consent Decree) - SD Oxygen Production	70	23-Mar-21	31-May-21	■ Construction (Non-Consent Decree) - SD Oxygen Production																																	
SD44780	Commissioning - SD Oxygen Production	30	02-May-21	31-May-21	■ Commissioning - SD Oxygen Production																																	
SD43890	Substantial Completion (Non-Consent Decree) - SD Oxygen Production	0		31-May-21	◆ Substantial Completion (Non-Consent Decree) - SD Oxygen Production																																	
SD40010	Project Closeout - SD Oxygen Production	60	01-Jun-21	30-Jul-21*	■ Project Closeout - SD Oxygen Production																																	
SD42010	EPA Compliance Date for Construction - SD Oxygen Production	0		25-Feb-22*	◆ EPA Compliance Date for Construction - SD Oxygen Production																																	
Project Administration					1953 03-Apr-15 A 30-Jul-21																																	
SD35010	WASD Project Administration - SD Oxygen Production	1953	03-Apr-15 A	30-Jul-21	■ WASD Project Administration - SD Oxygen Production																																	
1.03 Oxygenation Trains					3941 02-Oct-13 A 16-Nov-25																																	
Engineering Design					944 15-Feb-17 A 09-Dec-19 A																																	
SD43000	EPA Start Date for Engineering Design - SD Oxygenation Trains	0	31-Mar-17 A		EPA Start Date for Engineering Design - SD Oxygenation Trains																																	
SD42020	EPA Compliance Date for Engineering Design - SD Oxygenation Trains	0		30-Sep-19 A	◆ EPA Compliance Date for Engineering Design - SD Oxygenation Trains																																	
SD10190	Engineering Design - SD Oxygenation Trains	580	15-Feb-17 A	09-Dec-19 A	■ Engineering Design - SD Oxygenation Trains																																	
Permitting					248 01-Oct-19 A 03-Jun-20																																	
SD43010	EPA Start Date for Permitting - SD Oxygenation Trains	0	01-Oct-19 A		EPA Start Date for Permitting - SD Oxygenation Trains																																	
SD42030	EPA Compliance Date for Permitting - SD Oxygenation Trains	0		31-Mar-20*	◆ EPA Compliance Date for Permitting - SD Oxygenation Trains																																	
SD10250	Permitting - SD Oxygenation Trains	248	07-Nov-19 A	03-Jun-20	■ Permitting - SD Oxygenation Trains																																	
Procurement					891 21-Mar-17 A 08-Apr-21																																	
SD43020	EPA Start Date for Procurement - SD Oxygenation Trains	0	30-Sep-18 A		EPA Start Date for Procurement - SD Oxygenation Trains																																	
SD42040	EPA Compliance Date for Procurement - SD Oxygenation Trains	0		17-Jul-19 A	◆ EPA Compliance Date for Procurement - SD Oxygenation Trains																																	
SD10330	Procurement - SD Oxygenation Trains	465	21-Mar-17 A	08-Apr-21	■ Procurement - SD Oxygenation Trains																																	
Construction					2301 02-Oct-13 A 16-Nov-25																																	
SD43030	EPA Start Date for Construction - SD Oxygenation Trains	0	18-Jul-19 A		EPA Start Date for Construction - SD Oxygenation Trains																																	
SD41680	Construction - SD Oxygenation Trains	2018	02-Oct-13 A	08-Apr-25	■ Construction - SD Oxygenation Trains																																	
SD41730	Substantial Completion (CD Compliance Date 11/16/25) - SD Oxygenation Trains	0		08-Apr-25*	◆ Substantial Completion (CD Compliance Date 11/16/25) - SD Oxygenation Trains																																	
SD42050	EPA Compliance Date for Construction - SD Oxygenation Trains	0		16-Nov-25*	◆ EPA Compliance Date for Construction - SD Oxygenation Trains																																	
1.03 (1) - Oxygenation Trains Structural Rehab					2582 02-Oct-13 A 27-Jun-20																																	
Pre-Design					168 31-Aug-16 A 15-Feb-17 A																																	
SD42500	Pre-Design - SD Oxygenation Trains Struct. Rehab	169	31-Aug-16 A	15-Feb-17 A	■ Pre-Design - SD Oxygenation Trains Struct. Rehab																																	
Engineering Design					145 15-Feb-17 A 11-Jul-17 A																																	
SD42550	Engineering Design Train 5 - SD Oxygenation Trains Struct. Rehab	37	15-Feb-17 A	24-Mar-17 A	■ Engineering Design Train 5 - SD Oxygenation Trains Struct. Rehab																																	
SD41660	Engineering Design - SD Oxygenation Trains Struct. Rehab	146	15-Feb-17 A	11-Jul-17 A	■ Engineering Design - SD Oxygenation Trains Struct. Rehab																																	
SD42530	Engineering Design Trains 2, 3, 4, 6, 7 - SD Oxygenation Trains Struct. Rehab	146	15-Feb-17 A	11-Jul-17 A	■ Engineering Design Trains 2, 3, 4, 6, 7 - SD Oxygenation Trains Struct. Rehab																																	
Procurement					1700 21-Mar-17 A 15-Dec-19 A																																	
SD42600	Procurement Train 5 - SD Oxygenation Trains Struct. Rehab	73	21-Mar-17 A	01-Jun-17 A	■ Procurement Train 5 - SD Oxygenation Trains Struct. Rehab																																	
SD42590	Procurement Train 6 - SD Oxygenation Trains Struct. Rehab	96	11-Aug-17 A	23-Jan-18 A	■ Procurement Train 6 - SD Oxygenation Trains Struct. Rehab																																	
SD41670	Procurement - SD Oxygenation Trains Struct. Rehab	1700	21-Mar-17 A	15-Dec-19 A	■ Procurement - SD Oxygenation Trains Struct. Rehab																																	
SD42580	Procurement Train 4 - SD Oxygenation Trains Struct. Rehab	60	04-Oct-18 A	15-Dec-19 A	■ Procurement Train 4 - SD Oxygenation Trains Struct. Rehab																																	
Construction					2582 02-Oct-13 A 27-Jun-20																																	
SD10640	Construction Train 7 - SD Oxygenation Trains Struct. Rehab	135	02-Oct-13 A	24-Mar-14 A	■ Construction Train 7 - SD Oxygenation Trains Struct. Rehab																																	
SD10630	Construction Train 1 - SD Oxygenation Trains Struct. Rehab	341	02-Feb-15 A	08-Jan-16 A	■ Construction Train 1 - SD Oxygenation Trains Struct. Rehab																																	
SD10550	Construction Train 5 - SD Oxygenation Trains Struct. Rehab	77	17-Mar-17 A	01-Jun-17 A	■ Construction Train 5 - SD Oxygenation Trains Struct. Rehab																																	
SD10490	Construction Train 6 - SD Oxygenation Trains Struct. Rehab	105	23-Jan-18 A	30-May-18 A	■ Construction Train 6 - SD Oxygenation Trains Struct. Rehab																																	
SD10413	Construction - SD Oxygenation Trains Struct. Rehab	2582	02-Oct-13 A	29-Mar-20	■ Construction - SD Oxygenation Trains Struct. Rehab																																	
SD10420	Construction Train 4 - SD Oxygenation Trains Struct. Rehab	105	16-Dec-19 A	29-Mar-20	■ Construction Train 4 - SD Oxygenation Trains Struct. Rehab																																	
SD42850	Project Closeout - SD Oxygenation Trains Struct. Rehab	90	30-Mar-20	27-Jun-20*	■ Project Closeout - SD Oxygenation Trains Struct. Rehab																																	
Project Administration					2582 02-Oct-13 A 27-Jun-20																																	
SD35020	WASD Project Administration - SD Oxygenation Trains Struct. Rehab	2582	02-Oct-13 A	27-Jun-20	■ WASD Project Administration - SD Oxygenation Trains Struct. Rehab																																	
1.03 (2) - Oxygenation Trains - Mixer Upgrade/Electrical Building (OOL ST-1B)					3424 22-Feb-16 A 07-Jul-25																																	
Pre-Design					1023 11-Mar-16 A 27-Jun-18 A																																	
SD20250	Pre-Design - SD Oxygenation Trains Electrical Building Expansion	974	11-Mar-16 A	11-Jan-18 A	■ Pre-Design - SD Oxygenation Trains Electrical Building Expansion																																	
SD44390	Project Transferred to OOL - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)	0		11-Jan-18 A	◆ Project Transferred to OOL - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)																																	

Activity ID	Activity Name	Original Duration	Start	Finish	2018-2026																							
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
SD44590	Pre-Design - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)	974	11-Jan-18 A	27-Jun-18 A	Pre-Design - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)																							
Engineering Design		330	27-Jun-18 A	27-Sep-19 A	Engineering Design																							
SD20290	75% Design - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)	61	27-Jun-18 A	18-Feb-19 A	75% Design - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)																							
SD41710	Engineering Design - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)	153	27-Jun-18 A	28-May-19 A	Engineering Design - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)																							
SD20330	100% Design - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)	100	19-Feb-19 A	28-May-19 A	100% Design - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)																							
SD45500	Permit Ready Set - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)	60	29-May-19 A	27-Sep-19 A	Permit Ready Set - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)																							
Permitting		184	07-Nov-19 A	07-May-20	Permitting																							
SD41690	Permitting - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)	184	07-Nov-19 A	07-May-20	Permitting - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)																							
Procurement		274	29-Jun-20	29-Mar-21	Procurement																							
SD41700	Procurement - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)	274	29-Jun-20	29-Mar-21	Procurement - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)																							
Construction		3424	22-Feb-16 A	07-Jul-25	Construction																							
SD41450	Construction Train 7 - SD Oxygenation Trains Mixer Upgrade	131	22-Feb-16 A	01-Jul-16 A	Construction Train 7 - SD Oxygenation Trains Mixer Upgrade																							
SD20258	Contractor Notice to Proceed (NTP) - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)	0	30-Mar-21		Contractor Notice to Proceed (NTP) - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)																							
SD10590	Construction Train 3 - SD Oxygenation Trains Struct. Rehab	135	01-Oct-21*	12-Feb-22	Construction Train 3 - SD Oxygenation Trains Struct. Rehab																							
SD10620	Construction Train 2 - SD Oxygenation Trains Struct. Rehab	135	01-Oct-22	12-Feb-23*	Construction Train 2 - SD Oxygenation Trains Struct. Rehab																							
SD20260	Construction - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)	1471	30-Mar-21	08-Apr-25	Construction - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)																							
SD10650	Substantial Completion (CD Compliance Date 11/16/25) - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)	0		08-Apr-25*	Substantial Completion (CD Compliance Date 11/16/25) - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)																							
SD40020	Project Closeout - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)	90	09-Apr-25	07-Jul-25*	Project Closeout - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)																							
Project Administration		1431	27-Jun-18 A	07-Jul-25	Project Administration																							
SD35030	WASD Project Administration - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)	1431	27-Jun-18 A	07-Jul-25	WASD Project Administration - Mixer Upgrade/Electrical Building Expansion (OOL ST-1B)																							
1.03 (3) - Oxygenation Trains - SS 5/6 and SS 15/16 (OOL ST-2D)		2307	22-Feb-16 A	09-Jun-22	1.03 (3) - Oxygenation Trains - SS 5/6 and SS 15/16 (OOL ST-2D)																							
Pre-Design		308	12-Jan-17 A	12-Feb-19 A	Pre-Design																							
SD43520	Pre-Design (Mixer Evaluation) - SD Oxygenation Trains Mixer Upgrade	308	12-Jan-17 A	06-Nov-17 A	Pre-Design (Mixer Evaluation) - SD Oxygenation Trains Mixer Upgrade																							
SD44560	Pre-Design - SS 5/6 and SS 15/16 (OOL ST-2D)	308	11-Jan-18 A	12-Feb-19 A	Pre-Design - SS 5/6 and SS 15/16 (OOL ST-2D)																							
Engineering Design		311	13-Feb-19 A	14-Jan-20	Engineering Design																							
SD44570	60% Design - SS 5/6 and SS 15/16 (OOL ST-2D)	178	13-Feb-19 A	11-Sep-19 A	60% Design - SS 5/6 and SS 15/16 (OOL ST-2D)																							
SD43530	Engineering Design - SS 5/6 and SS 15/16 (OOL ST-2D)	277	13-Feb-19 A	14-Jan-20	Engineering Design - SS 5/6 and SS 15/16 (OOL ST-2D)																							
SD44580	100% Design - SS 5/6 and SS 15/16 (OOL ST-2D)	97	12-Sep-19 A	14-Jan-20	100% Design - SS 5/6 and SS 15/16 (OOL ST-2D)																							
Permitting		141	15-Jan-20	03-Jun-20	Permitting																							
SD44510	Permitting - SS 5/6 and SS 15/16 (OOL ST-2D)	141	15-Jan-20	03-Jun-20	Permitting - SS 5/6 and SS 15/16 (OOL ST-2D)																							
Procurement		273	10-Jul-20	08-Apr-21	Procurement																							
SD44520	Procurement - SS 5/6 and SS 15/16 (OOL ST-2D)	273	10-Jul-20	08-Apr-21	Procurement - SS 5/6 and SS 15/16 (OOL ST-2D)																							
Construction		427	09-Apr-21	09-Jun-22	Construction																							
SD41410	Contractor Notice to Proceed (NTP) - SS 5/6 and SS 15/16 (OOL ST-2D)	0	09-Apr-21		Contractor Notice to Proceed (NTP) - SS 5/6 and SS 15/16 (OOL ST-2D)																							
SD43400	Construction - SS 5/6 and SS 15/16 (OOL ST-2D)	392	09-Apr-21	05-May-22	Construction - SS 5/6 and SS 15/16 (OOL ST-2D)																							
SD41400	Substantial Completion (CD Compliance Date 11/16/25) - SS 5/6 and SS 15/16 (OOL ST-2D)	0		05-May-22	Substantial Completion (CD Compliance Date 11/16/25) - SS 5/6 and SS 15/16 (OOL ST-2D)																							
SD43840	Project Closeout - SS 5/6 and SS 15/16 (OOL ST-2D)	35	06-May-22	09-Jun-22*	Project Closeout - SS 5/6 and SS 15/16 (OOL ST-2D)																							
Project Administration		2307	22-Feb-16 A	09-Jun-22	Project Administration																							
SD44140	WASD Project Administration - SS 5/6 and SS 15/16 (OOL ST-2D)	2307	22-Feb-16 A	09-Jun-22	WASD Project Administration - SS 5/6 and SS 15/16 (OOL ST-2D)																							
1.04 Chlorine Building		2184	15-Aug-17 A	07-Aug-23	1.04 Chlorine Building																							
Pre-Design		181	15-Aug-17 A	16-Jul-18 A	Pre-Design																							
SD11162	Pre-Design - SD Chlorine Building	181	15-Aug-17 A	16-Jul-18 A	Pre-Design - SD Chlorine Building																							
Engineering Design		344	17-Jul-18 A	29-Aug-19 A	Engineering Design																							
SD20340	Technical Memo (TM) - SD Chlorine Building	60	17-Jul-18 A	17-Sep-18 A	Technical Memo (TM) - SD Chlorine Building																							
SD20350	TM Review Period - SD Chlorine Building	14	18-Sep-18 A	27-Sep-18 A	TM Review Period - SD Chlorine Building																							
SD43040	EPA Start Date for Engineering Design - SD Chlorine Building	0	01-Dec-18 A		EPA Start Date for Engineering Design - SD Chlorine Building																							
SD20360	30% Design Submittal - SD Chlorine Building	35	28-Sep-18 A	04-Dec-18 A	30% Design Submittal - SD Chlorine Building																							
SD20370	30% Design Review - SD Chlorine Building	10	05-Dec-18 A	31-Jan-19 A	30% Design Review - SD Chlorine Building																							
SD45380	60% Design Submittal / Review - SD Chlorine Building	27	24-Jan-19 A	02-Apr-19 A	60% Design Submittal / Review - SD Chlorine Building																							
SD42060	EPA Compliance Date for Engineering Design - SD Chlorine Building	0		10-Apr-19 A	EPA Compliance Date for Engineering Design - SD Chlorine Building																							
SD20400	100% Design Submittal - SD Chlorine Building	30	03-Apr-19 A	20-May-19 A	100% Design Submittal - SD Chlorine Building																							
SD10350	Engineering Design - SD Chlorine Building	312	17-Jul-18 A	29-Aug-19 A	Engineering Design - SD Chlorine Building																							
SD40140	100% Design Review/Permit Ready Submittal - SD Chlorine Building	30	21-May-19 A	29-Aug-19 A	100% Design Review/Permit Ready Submittal - SD Chlorine Building																							
Permitting		346	11-Apr-19 A	09-Apr-20	Permitting																							
SD43050	EPA Start Date for Permitting - SD Chlorine Building	0	11-Apr-19 A		EPA Start Date for Permitting - SD Chlorine Building																							
SD10380	Permitting - SD Chlorine Building	180	30-Aug-19 A	25-Feb-20	Permitting - SD Chlorine Building																							
SD42070	EPA Compliance Date for Permitting - SD Chlorine Building	0		09-Apr-20*	EPA Compliance Date for Permitting - SD Chlorine Building																							
Procurement		409	26-Feb-20	09-Apr-21	Procurement																							
SD43430	Internal Bid Package Review - SD Chlorine Building	3	26-Feb-20	28-Feb-20	Internal Bid Package Review - SD Chlorine Building																							
SD30490	Design Documents Sent to Procurement - SD Chlorine Building	0	29-Feb-20		Design Documents Sent to Procurement - SD Chlorine Building																							
SD43060	EPA Start Date for Procurement - SD Chlorine Building - SD Chlorine Building	0	10-Apr-20*		EPA Start Date for Procurement - SD Chlorine Building - SD Chlorine Building																							
SD30500	Submit/Approve SBD Goals and Request to Advertise - SD Chlorine Building	60	29-Feb-20	28-Apr-20	Submit/Approve SBD Goals and Request to Advertise - SD Chlorine Building																							
SD30510	Advertise Bid Package - SD Chlorine Building	0	29-Apr-20		Advertise Bid Package - SD Chlorine Building																							
SD30520	Bid Solicitation Period - SD Chlorine Building	60	29-Apr-20	27-Jun-20	Bid Solicitation Period - SD Chlorine Building																							
SD30530	Bids Due - SD Chlorine Building	0	28-Jun-20		Bids Due - SD Chlorine Building																							
SD30540	Bid Review Period - SD Chlorine Building	30	28-Jun-20	27-Jul-20	Bid Review Period - SD Chlorine Building																							
SD30550	Award Recommendation - SD Chlorine Building	0		27-Jul-20	Award Recommendation - SD Chlorine Building																							
SD10470	Procurement - SD Chlorine Building - SD Chlorine Building	270	29-Feb-20	24-Nov-20	Procurement - SD Chlorine Building - SD Chlorine Building																							
SD30560	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Chlorine Building	120	28-Jul-20	24-Nov-20	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Chlorine Building																							
SD42080	EPA Compliance Date for Procurement - SD Chlorine Building - SD Chlorine Building	0		09-Apr-21*	EPA Compliance Date for Procurement - SD Chlorine Building - SD Chlorine Building																							
Construction		986	25-Nov-20	07-Aug-23	Construction																							
SD10518	Contractor Notice to Proceed (NTP) - SD Chlorine Building	0	25-Nov-20		Contractor Notice to Proceed (NTP) - SD Chlorine Building																							
SD43070	EPA Start Date for Construction - SD Chlorine Building - SD Chlorine Building	0	10-Apr-21*		EPA Start Date for Construction - SD Chlorine Building - SD Chlorine Building																							
SD10520	Construction - SD Chlorine Building - SD Chlorine Building	418	25-Nov-20	16-Jan-22	Construction - SD Chlorine Building - SD Chlorine Building																							
SD44790	Commissioning - SD Chlorine Building	30	18-Dec-21	16-Jan-22	Commissioning - SD Chlorine Building																							

Activity ID	Activity Name	Original Duration	Start	Finish	Timeline																																			
					2018				2019				2020				2021				2022				2023				2024				2025				2026			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
SD43150	EPA Start Date for Construction - SD Gravity Sludge Thickeners	0	18-Aug-20*		◆ EPA Start Date for Construction - SD Gravity Sludge Thickeners																																			
SD31090	Final Engineering by Design-Builder - SD Gravity Sludge Thickeners	300	19-May-20	14-Mar-21	Final Engineering by Design-Builder - SD Gravity Sludge Thickeners																																			
SD31100	AHJ Permit Review - SD Gravity Sludge Thickeners	180	15-Nov-20	13-May-21	AHJ Permit Review - SD Gravity Sludge Thickeners																																			
SD43860	Design-Builder Contract Duration - SD Gravity Sludge Thickeners	909	19-May-20	13-Nov-22	Design-Builder Contract Duration - SD Gravity Sludge Thickeners																																			
SD10500	Construction - SD Gravity Sludge Thickeners	729	15-Nov-20	13-Nov-22	Construction - SD Gravity Sludge Thickeners																																			
SD44810	Commissioning - SD Gravity Sludge Thickeners	30	15-Oct-22	13-Nov-22	Commissioning - SD Gravity Sludge Thickeners																																			
SD10600	Substantial Completion (CD Compliance Date 1/06/23) - SD Gravity Sludge Thickeners	0		13-Nov-22*	◆ Substantial Completion (CD Compliance Date 1/06/23) - SD Gravity Sludge Thickeners																																			
SD42170	EPA Compliance Date for Construction - SD Gravity Sludge Thickeners	0		06-Jan-23*	◆ EPA Compliance Date for Construction - SD Gravity Sludge Thickeners																																			
SD40050	Project Closeout - SD Gravity Sludge Thickeners	120	14-Nov-22	13-Mar-23*	Project Closeout - SD Gravity Sludge Thickeners																																			
Project Administration		2380	03-Jul-14 A	13-Mar-23	Project Administration																																			
SD35070	WASD Project Administration - SD Gravity Sludge Thickeners	2380	03-Jul-14 A	13-Mar-23	WASD Project Administration - SD Gravity Sludge Thickeners																																			
1.07 Digesters and Control Building		3432	30-Jun-14 A	21-Nov-23	1.07 Digesters and Control Building																																			
Pre-Design		604	18-Feb-15 A	14-Oct-16 A	Pre-Design																																			
SD20016	Negotiate Scope and Cost with MWH - SD Digesters & Control Building	84	31-Mar-15 A	22-Jun-15 A	Negotiate Scope and Cost with MWH for SS 7 & 8 - SD Sub-Stations 7 & 8 (Non-Consent Decree)																																			
SD42900	Negotiate Scope and Cost with MWH for SS 7 & 8 - SD Sub-Stations 7 & 8 (Non-Consent Decree)	605	18-Feb-15 A	14-Oct-16 A	Negotiate Scope and Cost with MWH for SS 7 & 8 - SD Sub-Stations 7 & 8 (Non-Consent Decree)																																			
Engineering Design		1039	30-Jun-14 A	04-May-17 A	Engineering Design																																			
SD43160	EPA Start Date for Engineering Design - SD Digesters & Control Building	0	03-Jul-14 A		EPA Start Date for Engineering Design - SD Digesters & Control Building																																			
SD20006	Basis of Design Report (BODR) - SD Digesters & Control Building	313	30-Jun-14 A	08-May-15 A	Basis of Design Report (BODR) - SD Digesters & Control Building																																			
SD20770	Review/Revise BODR - SD Effluent Pump Station Building Improvements	45	09-May-15 A	22-Jun-15 A	Review/Revise BODR - SD Effluent Pump Station Building Improvements																																			
SD20026	30% Design Submittal - SD Digesters & Control Building	127	23-Jun-15 A	27-Oct-15 A	30% Design Submittal - SD Digesters & Control Building																																			
SD20036	30% Design Review - SD Digesters & Control Building	24	28-Oct-15 A	20-Nov-15 A	30% Design Review - SD Digesters & Control Building																																			
SD20046	60% Design Submittal - SD Digesters & Control Building	110	21-Nov-15 A	09-Mar-16 A	60% Design Submittal - SD Digesters & Control Building																																			
SD20056	60% Design Review - SD Digesters & Control Building	13	10-Mar-16 A	22-Mar-16 A	60% Design Review - SD Digesters & Control Building																																			
SD20066	100% Design Submittal - SD Digesters & Control Building	86	23-Mar-16 A	16-Jun-16 A	100% Design Submittal - SD Digesters & Control Building																																			
SD10010	Engineering Design - SD Digesters & Control Building	795	30-Jun-14 A	01-Sep-16 A	Engineering Design - SD Digesters & Control Building																																			
SD40160	100% Design Review/Permit Ready Submittal - SD Digesters & Control Building	77	17-Jun-16 A	01-Sep-16 A	100% Design Review/Permit Ready Submittal - SD Digesters & Control Building																																			
SD42180	EPA Compliance Date for Engineering Design - SD Digesters & Control Building	0		30-Sep-16 A	EPA Compliance Date for Engineering Design - SD Digesters & Control Building																																			
SD41520	60% Design Submittal - SD Sub-Stations 7 & 8 (Non-Consent Decree)	60	06-Dec-16 A	03-Feb-17 A	60% Design Submittal - SD Sub-Stations 7 & 8 (Non-Consent Decree)																																			
SD41800	60% Design Review - SD Sub-Stations 7 & 8 (Non-Consent Decree)	7	04-Feb-17 A	10-Feb-17 A	60% Design Review - SD Sub-Stations 7 & 8 (Non-Consent Decree)																																			
SD42430	100% Design Submittal - SD Sub-Stations 7 & 8 (Non-Consent Decree)	49	11-Feb-17 A	31-Mar-17 A	100% Design Submittal - SD Sub-Stations 7 & 8 (Non-Consent Decree)																																			
SD43820	100% Design Review - SD Sub-Stations 7 & 8 (Non-Consent Decree)	10	01-Apr-17 A	10-Apr-17 A	100% Design Review - SD Sub-Stations 7 & 8 (Non-Consent Decree)																																			
SD42440	100% Permit Ready Submittal - SD Sub-Stations 7 & 8 (Non-Consent Decree)	24	11-Apr-17 A	04-May-17 A	100% Permit Ready Submittal - SD Sub-Stations 7 & 8 (Non-Consent Decree)																																			
Permitting		1069	27-Jul-14 A	30-Jun-17 A	Permitting																																			
SD43170	EPA Start Date for Permitting - SD Digesters & Control Building	0	27-Jul-14 A		EPA Start Date for Permitting - SD Digesters & Control Building																																			
SD41860	FDEP Permit - SD Digesters & Control Building	299	26-Oct-15 A	19-Aug-16 A	FDEP Permit - SD Digesters & Control Building																																			
SD10040	Permitting - SD Digesters & Control Building	569	26-Oct-15 A	16-May-17 A	Permitting - SD Digesters & Control Building																																			
SD41870	RER DERM Permit - SD Digesters & Control Building	259	31-Aug-16 A	16-May-17 A	RER DERM Permit - SD Digesters & Control Building																																			
SD41880	MDC Building Department Permit - SD Digesters & Control Building	259	31-Aug-16 A	16-May-17 A	MDC Building Department Permit - SD Digesters & Control Building																																			
SD42870	RER DERM Permit - SD Substations 7 & 8 (Non-Consent Decree)	12	05-May-17 A	16-May-17 A	RER DERM Permit - SD Substations 7 & 8 (Non-Consent Decree)																																			
SD42880	MDC Building Department Permit - SD Substations 7 & 8 (Non-Consent Decree)	12	05-May-17 A	16-May-17 A	MDC Building Department Permit - SD Substations 7 & 8 (Non-Consent Decree)																																			
SD42190	EPA Compliance Date for Permitting - SD Digesters & Control Building	0		30-Jun-17 A	EPA Compliance Date for Permitting - SD Digesters & Control Building																																			
Procurement		834	25-Aug-17 A	05-Jan-20	Procurement																																			
SD43180	EPA Start Date for Procurement - SD Digesters & Control Building**	0	01-Sep-17 A		EPA Start Date for Procurement - SD Digesters & Control Building**																																			
SD43570	GMOU submittal and approval - SD Digesters & Control Building	23	25-Aug-17 A	16-Sep-17 A	GMOU submittal and approval - SD Digesters & Control Building																																			
SD43450	Internal Bid Package Review - SD Digesters & Control Building	62	29-Aug-17 A	18-Oct-17 A	Internal Bid Package Review - SD Digesters & Control Building																																			
SD30320	Design Documents Sent to Procurement - SD Digesters & Control Building	0	19-Oct-17 A		Design Documents Sent to Procurement - SD Digesters & Control Building																																			
SD30330	Submit/Approve SBD Goals and Request to Advertise - SD Digesters & Control Building	60	19-Oct-17 A	11-Jan-18 A	Submit/Approve SBD Goals and Request to Advertise - SD Digesters & Control Building																																			
SD30340	Advertise Bid Package - SD Digesters & Control Building	0	12-Jan-18 A		Advertise Bid Package - SD Digesters & Control Building																																			
SD30350	Bid Solicitation Period - SD Digesters & Control Building	60	12-Jan-18 A	19-Mar-18 A	Bid Solicitation Period - SD Digesters & Control Building																																			
SD30360	Bids Due - SD Digesters & Control Building	0	20-Mar-18 A		Bids Due - SD Digesters & Control Building																																			
SD42200	EPA Compliance Date for Procurement - SD Digesters & Control Building**	0		30-Apr-18 A	EPA Compliance Date for Procurement - SD Digesters & Control Building**																																			
SD30370	Bid Review Period - SD Digesters & Control Building	30	20-Mar-18 A	18-May-18 A	Bid Review Period - SD Digesters & Control Building																																			
SD30380	Award Recommendation - SD Digesters & Control Building	0		18-May-18 A	Award Recommendation - SD Digesters & Control Building																																			
SD10080	Procurement - SD Digesters & Control Building	270	19-Oct-17 A	08-Aug-18 A	Procurement - SD Digesters & Control Building																																			
SD30390	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Digesters & Control Building	75	19-May-18 A	08-Aug-18 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Digesters & Control Building																																			
SD33690	Pre-Purchase Bid Package (RTU) - SD Digesters & Control Building	60	09-Aug-18 A	07-Feb-19 A	Pre-Purchase Bid Package (RTU) - SD Digesters & Control Building																																			
SD33710	Requisition for Pre-Purchase Package (RTU) - SD Digesters & Control Building	30	08-Feb-19 A	08-Mar-19 A	Requisition for Pre-Purchase Package (RTU) - SD Digesters & Control Building																																			
SD33730	Vendor NTP (RTU) - SD Digesters & Control Building	62	09-Mar-19 A	09-May-19 A	Vendor NTP (RTU) - SD Digesters & Control Building																																			
SD33700	Pre-Purchase RTU - SD Digesters & Control Building	272	09-Aug-18 A	05-Jan-20	Pre-Purchase RTU - SD Digesters & Control Building																																			
SD33740	Fabricate & Deliver RTU - SD Digesters & Control Building	180	10-May-19 A	05-Jan-20	Fabricate & Deliver RTU - SD Digesters & Control Building																																			
Construction		2001	01-May-18 A	21-Nov-23	Construction																																			
SD43190	EPA Start Date for Construction - SD Digesters & Control Building**	0	01-May-18 A		EPA Start Date for Construction - SD Digesters & Control Building**																																			
SD30400	Contractor Notice to Proceed (NTP) - SD Digesters & Control Building	0	08-Aug-18 A		Contractor Notice to Proceed (NTP) - SD Digesters & Control Building																																			
SD45350	Substantial Completion (Acid Phase) - SD Digesters & Control Building	0		24-Nov-21*	◆ Substantial Completion (Acid Phase) - SD Digesters & Control Building																																			
SD10140	Construction - SD Digesters & Control Building	1200	08-Aug-18 A	19-May-22	Construction - SD Digesters & Control Building																																			
SD44820	Commissioning - SD Digesters & Control Building	30	20-Apr-22	19-May-22	Commissioning - SD Digesters & Control Building																																			
SD10560	Substantial Completion (CD Compliance Date 11/21/23) - SD Digesters & Control Building	0		19-May-22*	◆ Substantial Completion (CD Compliance Date 11/21/23) - SD Digesters & Control Building																																			
SD40060	Project Closeout - SD Digesters & Control Building	180	20-May-22	15-Nov-22*	Project Closeout - SD Digesters & Control Building																																			
SD42210	EPA Compliance Date for Construction - SD Digesters & Control Building	0		21-Nov-23*	◆ EPA Compliance Date for Construction - SD Digesters & Control Building																																			
Project Administration		2778	30-Jun-14 A	15-Nov-22	Project Administration																																			
SD35080	WASD Project Administration - SD Digesters & Control Building	2778	30-Jun-14 A	15-Nov-22	WASD Project Administration - SD Digesters & Control Building																																			
1.08 Dewatering Facility		3178	01-Jul-14 A	13-Mar-23	1.08 Dewatering Facility																																			
Pre-Design		71	19-Dec-14 A	28-Feb-15 A	Pre-Design																																			
SD11222	Pre-Design - SD Dewatering Facilities	72	19-Dec-14 A	28-Feb-15 A	Pre-Design - SD Dewatering Facilities																																			

Activity ID	Activity Name	Original Duration	Start	Finish	2018-2026																			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Engineering Design					876																			
SD43200	EPA Start Date for Engineering Design - SD Dewatering Facilities**	0	01-Jul-14 A	23-Nov-16 A	Design																			
SD42220	EPA Compliance Date for Engineering Design - SD Dewatering Facilities**	0	01-Jul-14 A	13-Apr-15 A	facilities**																			
SD20000	Basis of Design Report (BODR) - SD Dewatering Facilities	234	13-Apr-15 A	02-Dec-15 A	facilities																			
SD10030	Engineering Design (DCP) - SD Dewatering Facilities	467	13-Apr-15 A	29-Mar-16 A	ng Facilities;																			
SD41100	Issue Final RDBS - SD Dewatering Facilities	0	29-Mar-16 A	29-Mar-16 A	as																			
SD20020	Design Criteria Package Initial Submittal - SD Dewatering Facilities	146	03-Dec-15 A	26-Apr-16 A	- SD Dewatering Facilities																			
SD20800	Pilot Testing of Thickening Process - SD Dewatering Facilities	253	21-Aug-15 A	29-Apr-16 A	Dewatering Facilities																			
SD20030	DCP Design Review - SD Dewatering Facilities	25	25-Apr-16 A	19-May-16 A	Facilities																			
SD20040	Final DCP Submittal - SD Dewatering Facilities	188	20-May-16 A	23-Nov-16 A	Dewatering Facilities.																			
Permitting					167																			
SD20070	FDEP Permit - SD Dewatering Facilities	168	29-Jan-16 A	14-Jul-16 A	ilities																			
Procurement					1624																			
SD31600	RDBS Sent to Procurement - SD Dewatering Facilities	0	29-Mar-16 A	18-May-20	18-May-20, Procurement																			
SD43220	EPA Start Date for Procurement - SD Dewatering Facilities	0	13-Apr-16 A		ing Facilities																			
SD31610	Submit/Approve SBD Goals and Request to Advertise - SD Dewatering Facilities	113	29-Mar-16 A	19-Jul-16 A	wating Facilities;																			
SD31620	Advertise RDBS - SD Dewatering Facilities	0	20-Jul-16 A		request to Advertise - SD Dewatering Facilities																			
SD31630	Request for Qualifications - SD Dewatering Facilities	59	20-Jul-16 A	16-Sep-16 A	Facilities																			
SD31640	Qualifications Package Due - SD Dewatering Facilities	0	17-Sep-16 A		Dewatering Facilities																			
SD31650	Qualification Review Period - SD Dewatering Facilities	91	17-Sep-16 A	16-Dec-16 A	SD Dewatering Facilities;																			
SD31660	Shortlist Published - SD Dewatering Facilities	0	16-Dec-16 A		iod - SD Dewatering Facilities																			
SD31670	Request for Proposals - SD Dewatering Facilities	101	24-Jan-17 A	04-May-17 A	Dewatering Facilities																			
SD31680	Proposals Due - SD Dewatering Facilities	0	05-May-17 A		oposals - SD Dewatering Facilities																			
SD31690	Proposal Review Period & Oral Presentations - SD Dewatering Facilities	112	05-May-17 A	24-Aug-17 A	- SD Dewatering Facilities																			
SD31700	Award Recommendation - SD Dewatering Facilities	0	25-Aug-17 A		al Review Period & Oral Presentations - SD Dewatering Facilities																			
SD31710	Contract Negotiations - SD Dewatering Facilities	53	25-Aug-17 A	17-Nov-17 A	Recommendation - SD Dewatering Facilities																			
SD42240	EPA Compliance Date for Procurement - SD Dewatering Facilities	0	09-Jan-18 A		Contract Negotiations - SD Dewatering Facilities																			
SD31720	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Dewatering Facilities	79	18-Nov-17 A	01-May-18 A	Contract Negotiations - SD Dewatering Facilities																			
SD44740	Bid Cancellation - SD Dewatering Facilities	0	30-May-18 A		EPA Compliance Date for Procurement - SD Dewatering Facilities																			
SD44760	TA Re-Negotiation and Approval - SD Dewatering Facilities	60	11-May-18 A	23-Jul-18 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Dewatering Facilities																			
SD45170	Receipt of Revised Scope of Services, Submit DRAFT Review item to ISD/SBD for future solicitation, review and comments	20	09-Aug-18 A	28-Aug-18 A	◆ Bid Cancellation - SD Dewatering Facilities																			
SD45180	Submit approved Review item to SBD, Receipt of SBD Worksheet, Request to Advertise; approval from WASD and OMB	40	19-Sep-18 A	08-Nov-18 A	◆ TA Re-Negotiation and Approval - SD Dewatering Facilities																			
SD45190	Project Advertisement (after signed RTA) - SD Dewatering Facilities	0	08-Nov-18 A		◆ Receipt of Revised Scope of Services, Submit DRAFT Review item to ISD/SBD for future solicitation, review and comments																			
SD45220	Select and Approve Competitive Selection Committee (CSC) - SD Dewatering Facilities	40	19-Sep-18 A	04-Jan-19 A	◆ Submit approved Review item to SBD; Receipt of SBD Worksheet, Request to Advertise; approval from WASD and OMB																			
SD45200	Step 1 - Submittal Due Date - SD Dewatering Facilities	40	09-Nov-18 A	11-Jan-19 A	◆ Project Advertisement (after signed RTA) - SD Dewatering Facilities																			
SD45210	Step 1 - Qualifications Evaluation/Meeting - SD Dewatering Facilities	30	12-Jan-19 A	06-Mar-19 A	◆ Select and Approve Competitive Selection Committee (CSC) - SD Dewatering Facilities																			
SD45370	Issue DCP and Request for Proposals - SD Dewatering Facilities	15	12-Mar-19 A	19-Mar-19 A	◆ Step 1 - Submittal Due Date - SD Dewatering Facilities																			
SD45240	Step 2 Submittal Due Date - SD Dewatering Facilities	54	18-Mar-19 A	10-May-19 A	◆ Step 1 - Qualifications Evaluation/Meeting - SD Dewatering Facilities																			
SD45260	Step 2 Meeting - SD Dewatering Facilities	30	10-May-19 A	12-Jun-19 A	◆ Issue DCP and Request for Proposals - SD Dewatering Facilities																			
SD45250	Step 2 Proposal Review and Evaluation - SD Dewatering Facilities	76	11-May-19 A	12-Jun-19 A	◆ Step 2 Submittal Due Date - SD Dewatering Facilities																			
SD45270	Negotiation Memo submitted / Approved by WASD Director - SD Dewatering Facilities	60	13-Jun-19 A	01-Jul-19 A	◆ Step 2 Meeting - SD Dewatering Facilities																			
SD45290	Negotiations Commence - Contract provided to Firm (1st meeting) - SD Dewatering Facilities	10	02-Jul-19 A	09-Aug-19 A	◆ Step 2 Proposal Review and Evaluation - SD Dewatering Facilities																			
SD45320	Negotiations Concluded and preparation of final Contract - SD Dewatering Facilities	162	10-Aug-19 A	26-Sep-19 A	◆ Negotiation Memo submitted / Approved by WASD Director - SD Dewatering Facilities																			
SD45330	Contract Executed by Firm and obtain County Attorney, Risk Management and OMB signatures - SD Dewatering Facilities	78	27-Sep-19 A	13-Dec-19 A	◆ Negotiations Commence - Contract provided to Firm (1st meeting) - SD Dewatering Facilities																			
SD45340	Submit Contract Award Recommendation/Contract for internal approvals - SD Dewatering Facilities	21	14-Dec-19 A	31-Jan-20	◆ Negotiations Concluded and preparation of final Contract - SD Dewatering Facilities																			
SD45300	Submit/Approval of Item to Agenda Coordinator for committee & BCC Ratification - SD Dewatering Facilities	56	01-Feb-20	27-Mar-20	◆ Contract Executed by Firm and obtain County Attorney, Risk Management and OMB signatures - SD Dewatering Facilities																			
SD10110	Procurement - SD Dewatering Facilities	679	29-Mar-16 A	18-May-20	◆ Submit Contract Award Recommendation/Contract for internal approvals - SD Dewatering Facilities																			
SD44720	Repackage and Rebid Project - SD Dewatering Facilities	739	09-Aug-18 A	18-May-20	◆ Procurement - SD Dewatering Facilities																			
SD45310	Issue NTP - SD Dewatering Facilities	52	28-Mar-20	13-Mar-23	◆ Repackage and Rebid Project - SD Dewatering Facilities																			
Design-Build					1868																			
SD43230	EPA Start Date for Construction - SD Dewatering Facilities	0	10-Jan-18 A	13-Mar-23	◆ Issue NTP - SD Dewatering Facilities																			
SD31730	Design-Builder NTP - SD Dewatering Facilities	0	19-May-20		EPA Start Date for Construction - SD Dewatering Facilities																			
SD20010	Final Engineering by Design-Builder - SD Dewatering Facilities	300	19-May-20	14-Mar-21	◆ Design-Builder NTP - SD Dewatering Facilities																			
SD20080	AHJ Permit Review - SD Dewatering Facilities	180	15-Nov-20	13-May-21	Final Engineering by Design-Builder - SD Dewatering Facilities																			
SD43870	Design-Builder Contract Duration - SD Dewatering Facilities	909	19-May-20	13-Nov-22	AHJ Permit Review - SD Dewatering Facilities																			
SD10210	Construction - SD Dewatering Facilities	729	15-Nov-20	13-Nov-22	Design-Builder Contract Duration - SD Dewatering Facilities																			
SD44830	Commissioning - SD Dewatering Facilities	30	15-Oct-22	13-Nov-22	Construction - SD Dewatering Facilities																			
SD10450	Substantial Completion (CD Compliance Date 1/6/23) - SD Dewatering Facilities	0	13-Nov-22*		Commissioning - SD Dewatering Facilities																			
SD42250	EPA Compliance Date for Construction - SD Dewatering Facilities	0	06-Jan-23*		◆ Substantial Completion (CD Compliance Date 1/6/23) - SD Dewatering Facilities																			
SD40070	Project Closeout - SD Dewatering Facilities	120	14-Nov-22	13-Mar-23*	◆ EPA Compliance Date for Construction - SD Dewatering Facilities																			
Project Administration					2096																			
SD35090	WASD Project Administration - SD Dewatering Facilities	2096	13-Apr-15 A	13-Mar-23	◆ Project Closeout - SD Dewatering Facilities																			
1.09 FOG Removal Facility					1861																			
Engineering Design					588																			
SD43240	EPA Start Date for Engineering Design - SD FOG Removal Facility	0	08-Jul-14 A	16-Feb-16 A	28-Feb-20, 1.09 FOG Removal Facility																			
SD20560	Technical Evaluation of Alternatives - SD FOG Removal Facility	252	08-Jul-14 A	16-Mar-15 A	EPA Start Date for Engineering Design - SD FOG Removal Facility																			
SD20570	Negotiate Scope and Cost with MWH - SD FOG Removal Facility	136	19-Dec-14 A	03-May-15 A	Technical Evaluation of Alternatives - SD FOG Removal Facility																			
SD20580	Basis of Design Report (BODR) Submittal - SD FOG Removal Facility	79	04-May-15 A	21-Jul-15 A	Negotiate Scope and Cost with MWH - SD FOG Removal Facility																			
SD20590	BODR Design Review - SD FOG Removal Facility	38	22-Jul-15 A	28-Aug-15 A	Basis of Design Report (BODR) Submittal - SD FOG Removal Facility																			
SD20600	60% Design Submittal - SD FOG Removal Facility	37	01-Sep-15 A	07-Oct-15 A	BODR Design Review - SD FOG Removal Facility																			
SD20610	60% Design Review - SD FOG Removal Facility	15	08-Oct-15 A	22-Oct-15 A	60% Design Submittal - SD FOG Removal Facility																			
SD20620	100% Design Submittal - SD FOG Removal Facility	62	23-Oct-15 A	23-Dec-15 A	60% Design Review - SD FOG Removal Facility																			
SD10000	Engineering Design - SD FOG Removal Facility	563	08-Jul-14 A	21-Jan-16 A	100% Design Submittal - SD FOG Removal Facility																			
SD40170	100% Design Review/Permit Ready Submittal - SD FOG Removal Facility	29	24-Dec-15 A	21-Jan-16 A	Engineering Design - SD FOG Removal Facility																			

Activity ID	Activity Name	Original Duration	Start	Finish	2018-2026																			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
SD42260	EPA Compliance Date for Engineering Design - SD FOG Removal Facility	0		16-Feb-16 A	n - SD FOG Removal Facility																			
Permitting					Permitting - SD FOG Removal Facility																			
SD43250	EPA Start Date for Permitting - SD FOG Removal Facility	0	10-Nov-15 A	28-Oct-16 A	n - SD FOG Removal Facility																			
SD41770	FDEP Permit - SD FOG Removal Facility	241	10-Nov-15 A	07-Jul-16 A	n - SD FOG Removal Facility																			
SD10020	Permitting - SD FOG Removal Facility	310	10-Nov-15 A	14-Sep-16 A	n - SD FOG Removal Facility																			
SD41760	RER Bldg Dept. Permit - SD FOG Removal Facility	225	03-Feb-16 A	14-Sep-16 A	n - SD FOG Removal Facility																			
SD42270	EPA Compliance Date for Permitting - SD FOG Removal Facility	0		28-Oct-16 A	n - SD FOG Removal Facility																			
Procurement					Procurement - SD FOG Removal Facility																			
SD43260	EPA Start Date for Procurement - SD FOG Removal Facility	0	03-May-15 A	29-Jun-17 A	n - SD FOG Removal Facility																			
SD30230	Design Documents Sent to Procurement - SD FOG Removal Facility	0	05-Aug-16 A		n - SD FOG Removal Facility																			
SD30240	Submit/Approve SBD Goals - SD FOG Removal Facility	62	05-Aug-16 A	05-Oct-16 A	n - SD FOG Removal Facility																			
SD42910	OCI Reviews and Provides List - SD FOG Removal Facility	7	06-Oct-16 A	12-Oct-16 A	n - SD FOG Removal Facility																			
SD30250	Advertise Bid Package - SD FOG Removal Facility	0	13-Oct-16 A		n - SD FOG Removal Facility																			
SD30260	Bid Solicitation Period - SD FOG Removal Facility	50	13-Oct-16 A	01-Dec-16 A	n - SD FOG Removal Facility																			
SD30270	Bids Due - SD FOG Removal Facility	0	01-Dec-16 A		n - SD FOG Removal Facility																			
SD30280	Bid Review Period - SD FOG Removal Facility	44	02-Dec-16 A	14-Jan-17 A	n - SD FOG Removal Facility																			
SD43470	OCI Reviews and Provides List (for Rebid) - SD FOG Removal Facility	32	15-Jan-17 A	15-Feb-17 A	n - SD FOG Removal Facility																			
SD43480	Advertise Bid Package (for Rebid) - SD FOG Removal Facility	0	16-Feb-17 A		n - SD FOG Removal Facility																			
SD43490	Bid Solicitation Period (for Rebid) - SD FOG Removal Facility	41	16-Feb-17 A	28-Mar-17 A	n - SD FOG Removal Facility																			
SD43500	Bids Due (for Rebid) - SD FOG Removal Facility	0	29-Mar-17 A		n - SD FOG Removal Facility																			
SD43510	Bid Review Period (for Rebid) - SD FOG Removal Facility	38	29-Mar-17 A	05-May-17 A	n - SD FOG Removal Facility																			
SD30290	Award Recommendation - SD FOG Removal Facility	0		05-May-17 A	n - SD FOG Removal Facility																			
SD42280	EPA Compliance Date for Procurement - SD FOG Removal Facility**	0		15-May-17 A	n - SD FOG Removal Facility																			
SD10070	Procurement - SD FOG Removal Facility	329	05-Aug-16 A	29-Jun-17 A	n - SD FOG Removal Facility																			
SD30300	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD FOG Removal Facility	55	06-May-17 A	29-Jun-17 A	n - SD FOG Removal Facility																			
Construction					Construction - SD FOG Removal Facility																			
SD10123	Contractor Notice to Proceed (NTP) - SD FOG Removal Facility	0	30-Jun-17 A		n - SD FOG Removal Facility																			
SD43270	EPA Start Date for Construction - SD FOG Removal Facility	0	31-Jul-17 A		n - SD FOG Removal Facility																			
SD10130	Construction - SD FOG Removal Facility	329	30-Jun-17 A	26-Mar-19 A	n - SD FOG Removal Facility																			
SD44880	Commissioning (Part 1) - SD FOG Removal Facility	44	13-Feb-19 A	26-Mar-19 A	n - SD FOG Removal Facility																			
SD44840	Commissioning (Part 2) - SD FOG Removal Facility	30	27-Feb-19 A	26-Mar-19 A	n - SD FOG Removal Facility																			
SD10270	Substantial Completion (CD Compliance Date 5/24/19) - SD FOG Removal Facility	0		26-Mar-19 A	n - SD FOG Removal Facility																			
SD42290	EPA Compliance Date for Construction - SD FOG Removal Facility	0		24-May-19 A	n - SD FOG Removal Facility																			
SD40080	Project Closeout - SD FOG Removal Facility	105	27-Mar-19 A	28-Feb-20*	n - SD FOG Removal Facility																			
Project Administration					Project Administration - SD FOG Removal Facility																			
SD35100	WASD Project Administration - SD FOG Removal Facility	1507	08-Jul-14 A	28-Feb-20	n - SD FOG Removal Facility																			
1.10 Odor Control					1.10 Odor Control																			
Pre-Design					Pre-Design																			
SD11182	Pre-Design (BODR) - SD Odor Control	180	25-Jan-18 A	14-Sep-18 A	n - SD Odor Control																			
SD44770	Pre-Design (Remaining Scope of Work) - SD Odor Control	150	28-Nov-18 A	31-Jan-19 A	n - SD Odor Control																			
Engineering Design					Engineering Design																			
SD43280	EPA Start Date for Engineering Design - SD Odor Control	0	01-Dec-18 A		n - SD Odor Control																			
SD20630	Basis of Design Report (BODR) - SD Odor Control	96	15-Sep-18 A	21-Dec-18 A	n - SD Odor Control																			
SD20640	BODR Review Period & Final BODR - SD Odor Control	24	24-Dec-18 A	16-Jan-19 A	n - SD Odor Control																			
SD20650	30% Design Submittal - SD Odor Control	60	04-Feb-19 A	02-Apr-19 A	n - SD Odor Control																			
SD20660	30% Design Review - SD Odor Control	10	03-Apr-19 A	12-Apr-19 A	n - SD Odor Control																			
SD42300	EPA Compliance Date for Engineering Design - SD Odor Control	0		27-Jun-19 A	n - SD Odor Control																			
SD20670	60% Design Submittal - SD Odor Control	90	13-Apr-19 A	11-Jul-19 A	n - SD Odor Control																			
SD20680	60% Design Review - SD Odor Control	12	12-Jul-19 A	02-Aug-19 A	n - SD Odor Control																			
SD20690	100% Design Submittal - SD Odor Control	48	03-Aug-19 A	24-Sep-19 A	n - SD Odor Control																			
SD10360	Engineering Design - SD Odor Control	470	14-Sep-18 A	08-Nov-19 A	n - SD Odor Control																			
SD40180	100% Design Review/Permit Ready Submittal - SD Odor Control	41	25-Sep-19 A	08-Nov-19 A	n - SD Odor Control																			
SD45390	100% Bid Ready Submittal - SD Odor Control	20	29-Jan-20*	17-Feb-20	n - SD Odor Control																			
Permitting					Permitting - SD Odor Control																			
SD43290	EPA Start Date for Permitting - SD Odor Control	0	28-Jun-19 A		n - SD Odor Control																			
SD45430	FDEP Permit - SD Odor Control	60	20-Feb-19 A	06-Sep-19 A	n - SD Odor Control																			
SD10400	Permitting - SD Odor Control	180	21-Nov-19 A	18-May-20	n - SD Odor Control																			
SD42310	EPA Compliance Date for Permitting - SD Odor Control	0		26-Jun-20*	n - SD Odor Control																			
Procurement					Procurement - SD Odor Control																			
SD43460	Internal Bid Package Review - SD Odor Control	10	18-Feb-20	27-Feb-20	n - SD Odor Control																			
SD30730	Design Documents Sent to Procurement - SD Odor Control	0	28-Feb-20		n - SD Odor Control																			
SD30740	Submit/Approve SBD Goals and Request to Advertise - SD Odor Control	60	28-Feb-20	27-Apr-20	n - SD Odor Control																			
SD30750	Advertise Bid Package - SD Odor Control	0	28-Apr-20		n - SD Odor Control																			
SD30760	Bid Solicitation Period - SD Odor Control	60	28-Apr-20	26-Jun-20	n - SD Odor Control																			
SD30770	Bids Due - SD Odor Control	0	27-Jun-20		n - SD Odor Control																			
SD43300	EPA Start Date for Procurement - SD Odor Control	0	27-Jun-20*		n - SD Odor Control																			
SD30780	Bid Review Period - SD Odor Control	30	27-Jun-20	26-Jul-20	n - SD Odor Control																			
SD30790	Award Recommendation - SD Odor Control	0		26-Jul-20	n - SD Odor Control																			
SD10480	Procurement - SD Odor Control	270	28-Feb-20	23-Nov-20	n - SD Odor Control																			
SD30800	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Odor Control	120	27-Jul-20	23-Nov-20	n - SD Odor Control																			
SD42320	EPA Compliance Date for Procurement - SD Odor Control	0		26-Jun-21*	n - SD Odor Control																			
Construction					Construction - SD Odor Control																			
SD10538	Contractor Notice to Proceed (NTP) - SD Odor Control	0	24-Nov-20		n - SD Odor Control																			
SD43310	EPA Start Date for Construction - SD Odor Control	0	27-Jun-21*		n - SD Odor Control																			

Table with columns: Activity ID, Activity Name, Original Duration, Start, Finish, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026. Includes sections for 1.11 General Electrical and 1.11 (1.1) SDWWTP Substations 9-12.

Activity ID	Activity Name	Original Duration	Start	Finish	2018		2019				2020				2021				2022				2023				2024				2025				2026	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Procurement					279	21-Sep-18 A	30-Jan-20	30-Jan-20, Procurement																												
SD44960	Pre-Purchase Remote Radiators - Generator Repairs	48	21-Sep-18 A	06-Nov-18 A	Pre-Purchase Remote Radiators - Generator Repairs																															
SD44650	Award Purchase Order - Generator Repairs	0		06-Nov-18 A	Award Purchase Order - Generator Repairs																															
SD44970	Fabricate and Deliver Remote Radiators (Pre-Purchase) - Generator Repairs	253	07-Nov-18 A	30-Jan-20	Fabricate and Deliver Remote Radiators (Pre-Purchase) - Generator Repairs																															
Construction					313	31-Jan-20	08-Dec-20	08-Dec-20, Construction																												
SD44660	Contractor Notice to Proceed (NTP) - Generator Repairs	0	31-Jan-20		Contractor Notice to Proceed (NTP) - Generator Repairs																															
SD44670	Construction - Generator Repairs	253	31-Jan-20	09-Oct-20	Construction - Generator Repairs																															
SD44870	Commissioning - Generator Repairs	30	10-Sep-20	09-Oct-20	Commissioning - Generator Repairs																															
SD44680	Substantial Completion (CD Compliance Date 3/26/21) - Generator Repairs	0		09-Oct-20*	Substantial Completion (CD Compliance Date 3/26/21) - Generator Repairs																															
SD44690	Project Closeout - Generator Repairs	60	10-Oct-20	08-Dec-20*	Project Closeout - Generator Repairs																															
Project Administration					90	25-Oct-16 A	08-Dec-20	08-Dec-20, Project Administration																												
SD44700	WASD Project Administration - Generator Repairs	90	25-Oct-16 A	08-Dec-20	WASD Project Administration - Generator Repairs																															
1.11 (2) Elect. Feeder Bldg 1 to Effluent PS 1-6 (Project 1.05(2))					1171	24-Oct-17 A	30-Dec-20	30-Dec-20, 1.11 (2) Elect. Feeder Bldg 1 to Effluent PS 1-6 (Project 1.05(2))																												
Engineering Design					191	24-Oct-17 A	27-Jul-18 A	27-Jul-18 A, Engineering Design																												
SD40440	Engineering Design - Elect. Feeder Bldg 1 to Effluent PS 1-6 (Project 1.05(2)) - SD General Electrical	191	24-Oct-17 A	27-Jul-18 A	Engineering Design - Elect. Feeder Bldg 1 to Effluent PS 1-6 (Project 1.05(2)) - SD General Electrical																															
Permitting					180	16-Aug-18 A	14-Dec-18 A	14-Dec-18 A, Permitting																												
SD40370	Permitting - Elect. Feeder Bldg 1 to Effluent PS 1-6 (Project 1.05(2)) - SD General Electrical	180	16-Aug-18 A	14-Dec-18 A	Permitting - Elect. Feeder Bldg 1 to Effluent PS 1-6 (Project 1.05(2)) - SD General Electrical																															
Procurement					270	07-Dec-18 A	02-Oct-19 A	02-Oct-19 A, Procurement																												
SD40300	Procurement - Elect. Feeder Bldg 1 to Effluent PS 1-6 (Project 1.05(2)) - SD General Electrical	270	07-Dec-18 A	02-Oct-19 A	Procurement - Elect. Feeder Bldg 1 to Effluent PS 1-6 (Project 1.05(2)) - SD General Electrical																															
Construction					424	03-Oct-19 A	30-Dec-20	30-Dec-20, Construction																												
SD40230	Construction - Elect. Feeder Bldg 1 to Effluent PS Pumps 1-6 (Project 1.05(2)) - SD General Electrical	365	03-Oct-19 A	01-Oct-20	Construction - Elect. Feeder Bldg 1 to Effluent PS Pumps 1-6 (Project 1.05(2)) - SD General Electrical																															
SD43600	Project Closeout - Elect. Feeder Bldg 1 to Effluent PS Pumps 1-6 (Project 1.05(2)) - SD General Electrical	90	02-Oct-20	30-Dec-20*	Project Closeout - Elect. Feeder Bldg 1 to Effluent PS Pumps 1-6 (Project 1.05(2)) - SD General Electrical																															
Project Administration					1171	24-Oct-17 A	30-Dec-20	30-Dec-20, Project Administration																												
SD44170	WASD Project Administration - Elect. Feeder Bldg 1 to Effluent PS Pumps 1-6 (Project 1.05(2)) - SD General Electrical	1171	24-Oct-17 A	30-Dec-20	WASD Project Administration - Elect. Feeder Bldg 1 to Effluent PS Pumps 1-6 (Project 1.05(2)) - SD General Electrical																															
1.12 Chlorine Contact Chamber					2126	24-Aug-15 A	18-Jun-21	18-Jun-21, 1.12 Chlorine Contact Chamber																												
Engineering Design					1491	01-Oct-15 A	30-Sep-19 A	30-Sep-19 A, Engineering Design																												
SD43360	EPA Start Date for Engineering Design - SD Chlorine Contact Chamber	0	01-Aug-16 A		EPA Start Date for Engineering Design - SD Chlorine Contact Chamber																															
SD10150	Engineering Design - SD Chlorine Contact Chamber	657	01-Oct-15 A	18-Jul-17 A	Engineering Design - SD Chlorine Contact Chamber																															
SD42380	EPA Compliance Date for Engineering Design - SD Chlorine Contact Chamber	0		30-Sep-19 A	EPA Compliance Date for Engineering Design - SD Chlorine Contact Chamber																															
Permitting					942	01-Oct-15 A	08-Apr-18 A	08-Apr-18 A, Permitting																												
SD10200	Permitting - SD Chlorine Contact Chamber	30	01-Oct-15 A	30-Oct-15 A	Permitting - SD Chlorine Contact Chamber																															
SD43370	EPA Start Date for Permitting - SD Chlorine Contact Chamber	0	09-Apr-17 A		EPA Start Date for Permitting - SD Chlorine Contact Chamber																															
SD42390	EPA Compliance Date for Permitting - SD Chlorine Contact Chamber	0		08-Apr-18 A	EPA Compliance Date for Permitting - SD Chlorine Contact Chamber																															
Procurement					1910	24-Aug-15 A	30-Sep-20	30-Sep-20, Procurement																												
SD43380	EPA Start Date for Procurement - SD Chlorine Contact Chamber	0	09-Apr-18 A		EPA Start Date for Procurement - SD Chlorine Contact Chamber																															
SD42400	EPA Compliance Date for Procurement - SD Chlorine Contact Chamber	0		08-Apr-19 A	EPA Compliance Date for Procurement - SD Chlorine Contact Chamber																															
SD10290	Procurement - SD Chlorine Contact Chamber	1910	24-Aug-15 A	30-Sep-20	Procurement - SD Chlorine Contact Chamber																															
Construction					1992	05-Jan-16 A	18-Jun-21	18-Jun-21, Construction																												
SD43390	EPA Start Date for Construction - SD Chlorine Contact Chamber	0	09-Apr-19 A		EPA Start Date for Construction - SD Chlorine Contact Chamber																															
SD10370	Construction - SD Chlorine Contact Chamber Struct. Rehab	1686	05-Jan-16 A	13-Jan-21	Construction - SD Chlorine Contact Chamber Struct. Rehab																															
SD10530	Substantial Completion (CD Compliance Date 6/18/21) - SD Chlorine Contact Chamber	0		13-Jan-21*	Substantial Completion (CD Compliance Date 6/18/21) - SD Chlorine Contact Chamber																															
SD42410	EPA Compliance Date for Construction - SD Chlorine Contact Chamber	0		18-Jun-21*	EPA Compliance Date for Construction - SD Chlorine Contact Chamber																															
Project Administration					1872	01-Oct-15 A	13-Apr-21	13-Apr-21, Project Administration																												
SD35130	WASD Project Administration - SD Chlorine Contact Chamber	1872	01-Oct-15 A	13-Apr-21	WASD Project Administration - SD Chlorine Contact Chamber																															
1.12 (1) Chlorine Contact Chamber Actuator Replacement					1162	24-Aug-15 A	01-Jul-18 A	01-Jul-18 A, 1.12 (1) Chlorine Contact Chamber Actuator Replacement																												
Engineering Design					29	01-Oct-15 A	30-Oct-15 A	30-Oct-15 A, Engineering Design																												
SD41900	Engineering Design - Actuators Technical Data	30	01-Oct-15 A	30-Oct-15 A	Engineering Design - Actuators Technical Data																															
Permitting					29	01-Oct-15 A	30-Oct-15 A	30-Oct-15 A, Permitting																												
SD43410	Permitting - Actuators	30	01-Oct-15 A	30-Oct-15 A	Permitting - Actuators																															
Procurement					133	24-Aug-15 A	04-Jan-16 A	04-Jan-16 A, Procurement																												
SD41600	Procurement - Actuators	134	24-Aug-15 A	04-Jan-16 A	Procurement - Actuators																															
Construction					243	05-Jan-16 A	01-Jul-18 A	01-Jul-18 A, Construction																												
SD41630	Construction - Actuators (inc. Electrical)	32	05-Jan-16 A	05-Jun-18 A	Construction - Actuators (inc. Electrical)																															
SD44540	Substantial Completion - Actuators (inc. Electrical)	0		05-Jun-18 A	Substantial Completion - Actuators (inc. Electrical)																															
SD44550	Project Closeout - Actuators (inc. Electrical)	90	06-Jun-18 A	01-Jul-18 A	Project Closeout - Actuators (inc. Electrical)																															
Project Administration					792	01-Oct-15 A	01-Jun-18 A	01-Jun-18 A, Project Administration																												
SD44190	WASD Project Administration - Actuators (inc. Electrical)	792	01-Oct-15 A	01-Jun-18 A	WASD Project Administration - Actuators (inc. Electrical)																															
1.12 (2) Chlorine Contact Chamber Structural Rehab & Sluice Gates Replacement					1744	05-Jul-16 A	13-Apr-21	13-Apr-21, 1.12 (2) Chlorine Contact Chamber Structural Rehab & Sluice Gates Replacement																												
Pre-Design					233	05-Jul-16 A	23-Feb-17 A	23-Feb-17 A, Pre-Design																												
SD42720	Pre-Design - Structural Rehab	234	05-Jul-16 A	23-Feb-17 A	Pre-Design - Structural Rehab																															
Engineering Design					144	24-Feb-17 A	18-Jul-17 A	18-Jul-17 A, Engineering Design																												
SD43750	Engineering Design Contact Chambers #1-4 - Structural Rehab	145	24-Feb-17 A	18-Jul-17 A	Engineering Design Contact Chambers #1-4 - Structural Rehab																															
Procurement					1206	28-Jul-17 A	30-Sep-20	30-Sep-20, Procurement																												
SD44060	Requisition Sent to Procurement - Sluice Gates	0	28-Jul-17 A		Requisition Sent to Procurement - Sluice Gates																															
SD44130	Request to Advertise - Sluice Gates	11	28-Jul-17 A	07-Aug-17 A	Request to Advertise - Sluice Gates																															
SD44070	Advertise - Sluice Gates	0	08-Aug-17 A		Advertise - Sluice Gates																															
SD44080	Bid Solicitation Period - Sluice Gates	17	08-Aug-17 A	24-Aug-17 A	Bid Solicitation Period - Sluice Gates																															
SD44090	Bids Due - Sluice Gates	0	25-Aug-17 A		Bids Due - Sluice Gates																															
SD44100	Bid Review Period - Sluice Gates	12	25-Aug-17 A	05-Sep-17 A	Bid Review Period - Sluice Gates																															
SD44110	Award Recommendation - Sluice Gates	0		05-Sep-17 A	Award Recommendation - Sluice Gates																															
SD43830	Procurement - Sluice Gates (Summary)	60	28-Jul-17 A	25-Sep-17 A	Procurement - Sluice Gates (Summary)																															
SD44120	Final Approval - Sluice Gates	27	06-Sep-17 A	02-Oct-17 A	Final Approval - Sluice Gates																															
SD42810	Procurement Contact Chamber #1 - Structural Rehab	35	20-Oct-17 A	12-Dec-17 A	Procurement Contact Chamber #1 - Structural Rehab																															
SD41620	Procurement Contact Chamber #4 - Structural Rehab	148	15-May-19 A	31-Oct-19 A	Procurement Contact Chamber #4 - Structural Rehab																															
SD42790	Procurement Contact Chamber #3 - Structural Rehab	148	15-May-19 A	31-Oct-19 A	Procurement Contact Chamber #3 - Structural Rehab																															
SD41610	Procurement - Chlorine Contact Chamber	1111	28-Jul-17 A	30-Sep-20	Procurement - Chlorine Contact Chamber																															

Activity ID	Activity Name	Original Duration	Start	Finish	2018		2019				2020				2021				2022				2023				2024				2025				2026			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Engineering Design					475	11-Jun-14 A	29-Sep-15 A																															
CD40880	Engineering Design Substations 15 & 16 (2.15) - CD Misc. Elect.Improvements	476	11-Jun-14 A	29-Sep-15 A	Misc. Elect.Improvements																																	
Permitting					329	30-Sep-15 A	24-Aug-16 A																															
CD40960	Permitting Substations 15 & 16 (2.15) - CD Misc. Elect.Improvements	330	30-Sep-15 A	24-Aug-16 A	(2.15) - CD Misc. Elect.Improvements																																	
Procurement					198	15-Apr-16 A	30-Oct-16 A																															
CD41040	Procurement Substations 15 & 16 (2.15) - CD Misc. Elect.Improvements	199	15-Apr-16 A	30-Oct-16 A	5 & 16 (2.15) - CD Misc. Elect.Improvements																																	
Construction					540	31-Oct-16 A	09-Sep-20																															
CD40750	Construction - Substations 15 & 16 (2.15) - CD Misc. Elect.Improvements	540	31-Oct-16 A	09-Sep-20	09-Sep-20; Construction																																	
Project Administration					1413	11-Jun-14 A	09-Sep-20																															
CD85070	WASD Project Administration - Substations 15 & 16 (2.15) - CD Misc. Elect.Improvements	1413	11-Jun-14 A	09-Sep-20	09-Sep-20; Project Administration																																	
2.01 (6) Substations 17 & 18 (Project 2.19(2)a)					1437	04-Jun-15 A	04-Oct-19 A																															
Engineering Design					456	04-Jun-15 A	02-Sep-16 A																															
CD40890	Engineering Design Substations 17 & 18 (2.19) - CD Misc. Elect.Improvements	457	04-Jun-15 A	02-Sep-16 A	Substations 17 & 18 (2.19) - CD Misc. Elect.Improvements																																	
Permitting					408	10-May-16 A	22-Jun-17 A																															
CD40970	Permitting Substations 17 & 18 (2.19) - CD Misc. Elect.Improvements	409	10-May-16 A	22-Jun-17 A	Substations 17 & 18 (2.19) - CD Misc. Elect.Improvements																																	
Procurement					293	16-Sep-16 A	06-Jul-17 A																															
CD41050	Procurement Substations 17 & 18 (2.19) - CD Misc. Elect.Improvements	294	16-Sep-16 A	06-Jul-17 A	Substations 17 & 18 (2.19) - CD Misc. Elect.Improvements																																	
Construction					660	20-Jul-17 A	04-Oct-19 A																															
CD40770	Construction Substations 17 & 18 (2.19) - CD Misc. Elect.Improvements	660	20-Jul-17 A	04-Oct-19 A	04-Oct-19 A, Construction																																	
Project Administration					1437	04-Jun-15 A	04-Oct-19 A																															
CD85080	WASD Project Administration - 17 & 18 (2.19) - CD Misc. Elect.Improvements	1437	04-Jun-15 A	04-Oct-19 A	04-Oct-19 A, Project Administration																																	
2.01 (7) Substations 7A, 8A, 9A, & 10A					4120	17-Oct-16 A	03-Oct-21																															
Pre-Design					229	17-Oct-16 A	17-Sep-18 A																															
CD85410	Pre-Design (TM) - Substations 7A, 8A, 9A, & 10A	97	17-Oct-16 A	09-Aug-17 A	17-Sep-18 A, Pre-Design																																	
CD85420	Pre-Design (Remaining Scope of Work) - Substations 7A, 8A, 9A, & 10A	150	23-Dec-17 A	17-Sep-18 A	Pre-Design (Remaining Scope of Work) - Substations 7A, 8A, 9A, & 10A																																	
Engineering Design					632	09-Aug-17 A	02-May-19 A																															
CD85430	Draft Technical Memo Submittal - Substations 7A, 8A, 9A, & 10A	97	09-Aug-17 A	27-Nov-17 A	Draft Technical Memo Submittal - Substations 7A, 8A, 9A, & 10A																																	
CD85440	Final Technical Memo Submittal - Substations 7A, 8A, 9A, & 10A	30	28-Nov-17 A	22-Dec-17 A	Final Technical Memo Submittal - Substations 7A, 8A, 9A, & 10A																																	
CD85830	Basis of Design Report (BODR) - Substations 7A, 8A, 9A, & 10A	45	19-Sep-18 A	19-Nov-18 A	Basis of Design Report (BODR) - Substations 7A, 8A, 9A, & 10A																																	
CD85840	Review/Revise BODR - Substations 7A, 8A, 9A, & 10A	18	20-Nov-18 A	07-Dec-18 A	Review/Revise BODR - Substations 7A, 8A, 9A, & 10A																																	
CD85450	60% Design Submittal - Substations 7A, 8A, 9A, & 10A	52	08-Dec-18 A	28-Jan-19 A	60% Design Submittal - Substations 7A, 8A, 9A, & 10A																																	
CD85460	60% Design Review - Substations 7A, 8A, 9A, & 10A	15	29-Jan-19 A	22-Feb-19 A	60% Design Review - Substations 7A, 8A, 9A, & 10A																																	
CD85470	100% Design Submittal - Substations 7A, 8A, 9A, & 10A	33	25-Feb-19 A	12-Mar-19 A	100% Design Submittal - Substations 7A, 8A, 9A, & 10A																																	
CD40840	Engineering Design - Substations 7A, 8A, 9A, & 10A	180	09-Aug-17 A	02-May-19 A	Engineering Design - Substations 7A, 8A, 9A, & 10A																																	
CD85480	100% Design Review/Permit Ready Submittal - Substations 7A, 8A, 9A, & 10A	21	13-Mar-19 A	02-May-19 A	100% Design Review/Permit Ready Submittal - Substations 7A, 8A, 9A, & 10A																																	
Permitting					180	18-Apr-19 A	30-Nov-19 A																															
CD40920	Permitting - Substations 7A, 8A, 9A, & 10A	180	18-Apr-19 A	30-Nov-19 A	18-Apr-19 A, Permitting																																	
Procurement					229	23-Aug-19 A	27-Mar-20																															
CD85590	Design Documents to Procurement - Substations 7A, 8A, 9A, & 10A	0	23-Aug-19 A		23-Aug-19 A, Design Documents to Procurement																																	
CD85610	Advertise Bid Package - Substations 7A, 8A, 9A, & 10A	0	13-Sep-19 A		13-Sep-19 A, Advertise Bid Package																																	
CD85600	Submit/Approve SBD Goals and Request to Advertise - Substations 7A, 8A, 9A, & 10A	34	23-Aug-19 A	17-Sep-19 A	23-Aug-19 A, Submit/Approve SBD Goals and Request to Advertise																																	
CD85620	Bid Solicitation Period - Substations 7A, 8A, 9A, & 10A	60	13-Sep-19 A	19-Nov-19 A	13-Sep-19 A, Bid Solicitation Period																																	
CD85630	Bids Due - Substations 7A, 8A, 9A, & 10A	0	20-Nov-19 A		20-Nov-19 A, Bids Due																																	
CD85640	Bid Review Period - Substations 7A, 8A, 9A, & 10A	26	20-Nov-19 A	15-Jan-20	20-Nov-19 A, Bid Review Period																																	
CD85650	Award Recommendation - Substations 7A, 8A, 9A, & 10A	0		15-Jan-20	15-Jan-20, Award Recommendation																																	
CD41000	Procurement - Substations 7A, 8A, 9A, & 10A	229	23-Aug-19 A	27-Mar-20	23-Aug-19 A, Procurement																																	
CD85660	Final Approvals (BCC, Mayor, Risk Mgmt.) - Substations 7A, 8A, 9A, & 10A	72	16-Jan-20	27-Mar-20	16-Jan-20, Final Approvals (BCC, Mayor, Risk Mgmt.)																																	
Construction					555	28-Mar-20	03-Oct-21																															
CD85670	Contractor Notice to Proceed (NTP) - Substations 7A, 8A, 9A, & 10A	0	28-Mar-20		28-Mar-20, Contractor Notice to Proceed																																	
CD40720	Construction Milestone #1 (Consent Decree) - Substations 7A, 8A, 9A, & 10A	400	28-Mar-20	01-May-21	28-Mar-20, Construction Milestone #1 (Consent Decree)																																	
CD86200	Commissioning - Substations 7A, 8A, 9A, & 10A	30	02-Apr-21	01-May-21	02-Apr-21, Commissioning																																	
CD85580	Substantial Completion (CD Compliance Date 6/14/21) - Substations 7A, 8A, 9A, & 10A	0		01-May-21*	01-May-21*, Substantial Completion (CD Compliance Date 6/14/21)																																	
CD87210	Construction Milestone #2 (non-Consent Decree) - Substations 7A, 8A, 9A, & 10A	90	02-May-21	30-Jul-21	02-May-21, Construction Milestone #2 (non-Consent Decree)																																	
CD40000	Project Closeout - Substations 7A, 8A, 9A, & 10A	65	31-Jul-21	03-Oct-21*	31-Jul-21, Project Closeout																																	
Project Administration					850	09-Aug-17 A	01-May-21																															
CD85090	WASD Project Administration - Substations 7A, 8A, 9A, & 10A	850	09-Aug-17 A	01-May-21	09-Aug-17 A, Project Administration																																	
2.02 Building Improvements					2177	26-Mar-14 A	10-Mar-20																															
Engineering Design					771	26-Mar-14 A	05-May-16 A																															
CD82380	EPA Start Date for Engineering Design - CD Repairs to Various Buildings**	0	01-May-14 A		01-May-14 A, EPA Start Date for Engineering Design																																	
CD42460	EPA Compliance Date for Engineering Design - CD Repairs to Various Buildings**	0		18-Oct-14 A	18-Oct-14 A, EPA Compliance Date for Engineering Design																																	
CD10130	Engineering Design - CD Repairs to Various Buildings	772	26-Mar-14 A	05-May-16 A	26-Mar-14 A, Engineering Design																																	
Permitting					684	13-Oct-14 A	27-Aug-16 A																															
CD82390	EPA Start Date for Permitting - CD Repairs to Various Buildings	0	19-Oct-14 A		19-Oct-14 A, EPA Start Date for Permitting																																	
CD10290	Permitting - CD Repairs to Various Buildings	620	13-Oct-14 A	23-Jun-16 A	13-Oct-14 A, Permitting																																	
CD80310	EPA Compliance Date for Permitting - CD Repairs to Various Buildings	0		27-Aug-16 A	27-Aug-16 A, EPA Compliance Date for Permitting																																	
Procurement					973	03-Jun-14 A	31-Jan-17 A																															
CD82400	EPA Start Date for Procurement - CD Repairs to Various Buildings	0	19-Oct-15 A		19-Oct-15 A, EPA Start Date for Procurement																																	
CD10530	Procurement - CD Repairs to Various Buildings	933	03-Jun-14 A	05-Jan-17 A	03-Jun-14 A, Procurement																																	
CD80320	EPA Compliance Date for Procurement - CD Repairs to Various Buildings	0		31-Jan-17 A	31-Jan-17 A, EPA Compliance Date for Procurement																																	
Construction					1913	16-Oct-14 A	10-Jan-20																															
CD82410	EPA Start Date for Construction - CD Repairs to Various Buildings	0	18-Oct-16 A		18-Oct-16 A, EPA Start Date for Construction																																	
CD80330	EPA Compliance Date for Construction - CD Repairs to Various Buildings	0		26-Sep-19 A	26-Sep-19 A, EPA Compliance Date for Construction																																	
CD10740	Construction - CD Repairs to Various Buildings	1162	16-Oct-14 A	10-Jan-20	16-Oct-14 A, Construction																																	
CD10910	Substantial Completion (CD Compliance Date 9/26/19) - CD Repairs to Various Buildings	0		10-Jan-20*	10-Jan-20*, Substantial Completion (CD Compliance Date 9/26/19)																																	
2.02 (1)a CD Building Improvements - Admin Asbestos Abatement					432	26-Mar-14 A	01-Jun-15 A																															
Engineering Design					198	26-Mar-14 A	10-Oct-14 A																															

Activity ID	Activity Name	Original Duration	Start	Finish	2018		2019				2020				2021				2022				2023				2024				2025				2026	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
CD80290	Procurement (Structural Rehab Train #3) - CD Oxygenation Trains Plant 1	93	14-Aug-17 A	13-Feb-18 A	Procurement (Structural Rehab Train #3) - CD Oxygenation Trains Plant 1																															
Construction					Construction - CD Oxygenation Trains Plant 1																															
CD12151	Installation of Mixers Trains #2 & 3 - CD Oxygenation Trains Plant 1	81	02-Dec-13 A	20-Feb-14 A	Installation of Mixers Trains #2 & 3 - CD Oxygenation Trains Plant 1																															
CD10720	Structural Rehab Train #2 - CD Oxygenation Trains Plant 1	90	15-Jan-17 A	14-Apr-17 A	Structural Rehab Train #2 - CD Oxygenation Trains Plant 1																															
CD32560	Construction - CD Oxygenation Trains Plant 1	1549	02-Dec-13 A	22-Jun-18 A	Construction - CD Oxygenation Trains Plant 1																															
CD10940	Structural Rehab Train #3 - CD Oxygenation Trains Plant 1	105	13-Feb-18 A	22-Jun-18 A	Structural Rehab Train #3 - CD Oxygenation Trains Plant 1																															
CD11050	Substantial Completion (CD Compliance Date 4/12/19) - CD Oxygenation Trains Plant 1	0		22-Jun-18 A	Substantial Completion (CD Compliance Date 4/12/19) - CD Oxygenation Trains Plant 1																															
CD81890	Project Closeout - CD Oxygenation Trains Plant 1	90	23-Jun-18 A	27-Jul-18 A	Project Closeout - CD Oxygenation Trains Plant 1																															
CD80500	EPA Compliance Date for Construction - CD Oxygenation Trains Plant 1	0		12-Apr-19 A	EPA Compliance Date for Construction - CD Oxygenation Trains Plant 1																															
Project Administration					Project Administration - CD Oxygenation Trains Plant 1																															
CD33980	WASD Project Administration - CD Oxygenation Trains Plant 1	2556	01-Mar-11 A	22-Jun-18 A	WASD Project Administration - CD Oxygenation Trains Plant 1																															
2.06 Oxygenation Trains Plant 2					2.06 Oxygenation Trains Plant 2																															
Pre-Design					Pre-Design - CD Oxygenation Trains Plant 2																															
CD81270	Pre-Design - CD Oxygenation Trains Plant 2	230	05-Jul-16 A	20-Feb-17 A	Pre-Design - CD Oxygenation Trains Plant 2																															
Engineering Design					Engineering Design - CD Oxygenation Trains Plant 2																															
CD10610	Engineering Design - CD Oxygenation Trains Plant 2	63	01-Mar-11 A	02-May-11 A	Engineering Design - CD Oxygenation Trains Plant 2																															
CD82500	EPA Start Date for Engineering Design - CD Oxygenation Trains Plant 2	0		01-Jun-16 A	EPA Start Date for Engineering Design - CD Oxygenation Trains Plant 2																															
CD80510	EPA Compliance Date for Engineering Design - CD Oxygenation Trains Plant 2**	0		02-Sep-16 A	EPA Compliance Date for Engineering Design - CD Oxygenation Trains Plant 2**																															
CD81280	Engineering Design (Structural Rehab Train #2) - CD Oxygenation Trains Plant 2	173	21-Feb-17 A	12-Aug-17 A	Engineering Design (Structural Rehab Train #2) - CD Oxygenation Trains Plant 2																															
CD81290	Engineering Design (Structural Rehab Train #4) - CD Oxygenation Trains Plant 2	173	21-Feb-17 A	12-Aug-17 A	Engineering Design (Structural Rehab Train #4) - CD Oxygenation Trains Plant 2																															
Permitting					Permitting - CD Oxygenation Trains Plant 2																															
CD10690	Permitting - CD Oxygenation Trains Plant 2	62	01-Mar-11 A	02-May-11 A	Permitting - CD Oxygenation Trains Plant 2																															
CD82510	EPA Start Date for Permitting - CD Oxygenation Trains Plant 2	0		03-Sep-16 A	EPA Start Date for Permitting - CD Oxygenation Trains Plant 2																															
CD80520	EPA Compliance Date for Permitting - CD Oxygenation Trains Plant 2	0		02-Sep-17 A	EPA Compliance Date for Permitting - CD Oxygenation Trains Plant 2																															
Procurement					Procurement - CD Oxygenation Trains Plant 2																															
CD81310	Procurement (Mixers) - CD Oxygenation Trains Plant 2	3103	02-May-11 A	10-Mar-20	Procurement (Mixers) - CD Oxygenation Trains Plant 2																															
CD82520	EPA Start Date for Procurement - CD Oxygenation Trains Plant 2	0		03-Sep-17 A	EPA Start Date for Procurement - CD Oxygenation Trains Plant 2																															
CD80530	EPA Compliance Date for Procurement - CD Oxygenation Trains Plant 2	0		16-Nov-18 A	EPA Compliance Date for Procurement - CD Oxygenation Trains Plant 2																															
CD81300	Procurement (Structural Rehab Train #2) - CD Oxygenation Trains Plant 2	90	20-Oct-17 A	06-Oct-19 A	Procurement (Structural Rehab Train #2) - CD Oxygenation Trains Plant 2																															
CD10900	Procurement - CD Oxygenation Trains Plant 2	2754	02-May-11 A	10-Mar-20	Procurement - CD Oxygenation Trains Plant 2																															
CD81320	Procurement (Structural Rehab Train #4) - CD Oxygenation Trains Plant 2	152	10-May-19 A	10-Mar-20	Procurement (Structural Rehab Train #4) - CD Oxygenation Trains Plant 2																															
Construction					Construction - CD Oxygenation Trains Plant 2																															
CD11091	Install Mixers Train #1 - CD Oxygenation Trains Plant 2	24	11-Jan-16 A	03-Feb-16 A	Install Mixers Train #1 - CD Oxygenation Trains Plant 2																															
CD12161	Install Mixers Trains #2-4 - CD Oxygenation Trains Plant 2	182	01-Sep-15 A	29-Feb-16 A	Install Mixers Trains #2-4 - CD Oxygenation Trains Plant 2																															
CD11280	Structural Rehab Train #3 - CD Oxygenation Trains Plant 2	113	09-Nov-15 A	29-Feb-16 A	Structural Rehab Train #3 - CD Oxygenation Trains Plant 2																															
CD11090	Structural Rehab Train #1 - CD Oxygenation Trains Plant 2	113	17-Jan-17 A	09-May-17 A	Structural Rehab Train #1 - CD Oxygenation Trains Plant 2																															
CD82530	EPA Start Date for Construction - CD Oxygenation Trains Plant 2	0		16-Dec-18 A	EPA Start Date for Construction - CD Oxygenation Trains Plant 2																															
CD30060	Electrical Equip. / Expand Structure - CD Oxygenation Trains Plant 2	1034	02-Feb-15 A	29-Jan-19 A	Electrical Equip. / Expand Structure - CD Oxygenation Trains Plant 2																															
CD11190	Structural Rehab Train #2 - CD Oxygenation Trains Plant 2	155	07-Oct-19 A	10-Mar-20	Structural Rehab Train #2 - CD Oxygenation Trains Plant 2																															
CD32570	Construction - CD Oxygenation Trains Plant 2	1192	09-Nov-15 A	12-Aug-20	Construction - CD Oxygenation Trains Plant 2																															
CD11380	Structural Rehab Train #4 - CD Oxygenation Trains Plant 2	125	10-Apr-20	12-Aug-20	Structural Rehab Train #4 - CD Oxygenation Trains Plant 2																															
CD11450	Substantial Completion (CD Compliance Date 4/14/22) - CD Oxygenation Trains Plant 2	0		12-Aug-20*	Substantial Completion (CD Compliance Date 4/14/22) - CD Oxygenation Trains Plant 2																															
CD81900	Project Closeout - CD Oxygenation Trains Plant 2	30	13-Aug-20	11-Sep-20*	Project Closeout - CD Oxygenation Trains Plant 2																															
CD80580	EPA Compliance Date for Construction - CD Oxygenation Trains Plant 2	0		14-Apr-22*	EPA Compliance Date for Construction - CD Oxygenation Trains Plant 2																															
Project Administration					Project Administration - CD Oxygenation Trains Plant 2																															
CD33990	WASD Project Administration - CD Oxygenation Trains Plant 2	2584	01-Mar-11 A	12-Aug-20	WASD Project Administration - CD Oxygenation Trains Plant 2																															
2.07 Secondary Clarifiers Plant 1					2.07 Secondary Clarifiers Plant 1																															
Engineering Design					Engineering Design - CD Secondary Clarifiers Plant 1																															
CD11350	Engineering Design - CD Secondary Clarifiers Plant 1	455	12-Apr-18 A	03-Jan-20	Engineering Design - CD Secondary Clarifiers Plant 1																															
CD82540	EPA Start Date for Engineering Design - CD Secondary Clarifiers Plant 1	0		01-Apr-21*	EPA Start Date for Engineering Design - CD Secondary Clarifiers Plant 1																															
CD80590	EPA Compliance Date for Engineering Design - CD Secondary Clarifiers Plant 1	0		05-Oct-21*	EPA Compliance Date for Engineering Design - CD Secondary Clarifiers Plant 1																															
Permitting					Permitting - CD Secondary Clarifiers Plant 1																															
CD11400	Permitting - CD Secondary Clarifiers Plant 1	173	04-Jan-20	24-Jun-20	Permitting - CD Secondary Clarifiers Plant 1																															
CD82550	EPA Start Date for Permitting - CD Secondary Clarifiers Plant 1	0		06-Oct-21*	EPA Start Date for Permitting - CD Secondary Clarifiers Plant 1																															
CD80600	EPA Compliance Date for Permitting - CD Secondary Clarifiers Plant 1	0		05-Oct-22*	EPA Compliance Date for Permitting - CD Secondary Clarifiers Plant 1																															
Procurement					Procurement - CD Secondary Clarifiers Plant 1																															
CD11530	Procurement - CD Secondary Clarifiers Plant 1	2007	17-Jul-15 A	05-Oct-23	Procurement - CD Secondary Clarifiers Plant 1																															
CD82560	EPA Start Date for Procurement - CD Secondary Clarifiers Plant 1	0		06-Oct-22*	EPA Start Date for Procurement - CD Secondary Clarifiers Plant 1																															
CD80610	EPA Compliance Date for Procurement - CD Secondary Clarifiers Plant 1	0		05-Oct-23*	EPA Compliance Date for Procurement - CD Secondary Clarifiers Plant 1																															
Construction					Construction - CD Secondary Clarifiers Plant 1																															
CD82570	EPA Start Date for Construction - CD Secondary Clarifiers Plant 1	0		06-Oct-23*	EPA Start Date for Construction - CD Secondary Clarifiers Plant 1																															
CD11598	Construction - CD Secondary Clarifiers Plant 1	1045	11-Jul-15 A	06-Nov-24	Construction - CD Secondary Clarifiers Plant 1																															
CD85370	Substantial Completion (CD Compliance Date 8/15/26) - CD Secondary Clarifiers Plant 1	0		06-Nov-24*	Substantial Completion (CD Compliance Date 8/15/26) - CD Secondary Clarifiers Plant 1																															
CD80840	EPA Compliance Date for Construction - CD Secondary Clarifiers Plant 1	0		15-Aug-26*	EPA Compliance Date for Construction - CD Secondary Clarifiers Plant 1																															
Project Administration					Project Administration - CD Secondary Clarifiers Plant 1																															
CD34000	WASD Project Administration - CD Secondary Clarifiers Plant 1	1986	31-Jul-18 A	04-Feb-25	WASD Project Administration - CD Secondary Clarifiers Plant 1																															
2.07 (1) Secondary Clarifiers Plant 1					2.07 (1) Secondary Clarifiers Plant 1																															
Pre-Design					Pre-Design - CD Secondary Clarifiers Plant 1																															
CD11252	Pre-Design - CD Secondary Clarifiers Plant 1	181	10-May-17 A	30-Jul-18 A	Pre-Design - CD Secondary Clarifiers Plant 1																															
Engineering Design					Engineering Design - CD Secondary Clarifiers Plant 1																															
CD20700	Basis of Design Report (BODR) - CD Secondary Clarifiers Plant 1	60	31-Jul-18 A	15-Jan-19 A	Basis of Design Report (BODR) - CD Secondary Clarifiers Plant 1																															
CD20710	BODR Review Period - CD Secondary Clarifiers Plant 1	16	16-Jan-19 A	08-Mar-19 A	BODR Review Period - CD Secondary Clarifiers Plant 1																															
CD20720	30% Design Submittal - CD Secondary Clarifiers Plant 1	41	16-Feb-19 A	21-Mar-19 A	30% Design Submittal - CD Secondary Clarifiers Plant 1																															
CD20730	30% Design Review - CD Secondary Clarifiers Plant 1	13	22-Mar-19 A	12-Apr-19 A	30% Design Review - CD Secondary Clarifiers Plant 1																															
CD20740	60% Design Submittal - CD Secondary Clarifiers Plant 1	55	13-Apr-19 A	30-May-19 A	60% Design Submittal - CD Secondary Clarifiers Plant 1																															

Activity ID	Activity Name	Original Duration	Start	Finish	2018		2019				2020				2021				2022				2023				2024				2025				2026	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
CD82610	EPA Start Date for Construction - CD Secondary Clarifiers Plant 2	0	06-Dec-18 A				◆ EPA Start Date for Construction - CD Secondary Clarifiers Plant 2																													
CD11117	Construction - CD Secondary Clarifiers Plant 2	1740	21-Nov-18 A	11-Sep-23	Construction - CD Secondary Clarifiers Plant 2																															
CD11570	Substantial Completion (CD Compliance Date 12/01/24) - CD Secondary Clarifiers Plant 2	0		11-Sep-23*	◆ Substantial Completion (CD Compliance Date 12/01/24) - CD Secondary Clarifiers Plant 2																															
CD80850	EPA Compliance Date for Construction - CD Secondary Clarifiers Plant 2	0		01-Dec-24*	◆ EPA Compliance Date for Construction - CD Secondary Clarifiers Plant 2																															
Project Administration					2705	16-Mar-16 A	09-Nov-23	09-Nov-23, Project Administration																												
CD34010	WASD Project Administration - CD Secondary Clarifiers Plant 2	2705	16-Mar-16 A	09-Nov-23	WASD Project Administration - CD Secondary Clarifiers Plant 2																															
2.08 (1) Secondary Clarifiers Plant 2					3040	15-Jul-15 A	09-Nov-23	09-Nov-23, 2.08 (1) Secondary Clarifiers Plant 2																												
Pre-Design					244	15-Jul-15 A	15-Mar-16 A	Pre-Design - CD Secondary Clarifiers Plant 2																												
CD11262	Pre-Design - CD Secondary Clarifiers Plant 2	245	15-Jul-15 A	15-Mar-16 A	Pre-Design - CD Secondary Clarifiers Plant 2																															
Engineering Design					322	16-Mar-16 A	01-Feb-17 A	Engineering Design - CD Secondary Clarifiers Plant 2																												
CD20830	Draft Basis of Design Report (BODR) - CD Secondary Clarifiers Plant 2	94	16-Mar-16 A	17-Jun-16 A	Draft Basis of Design Report (BODR) - CD Secondary Clarifiers Plant 2																															
CD20770	BODR Review Period - CD Secondary Clarifiers Plant 2	7	18-Jun-16 A	24-Jun-16 A	BODR Review Period - CD Secondary Clarifiers Plant 2																															
CD70960	Final Basis of Design Report (BODR) - CD Secondary Clarifiers Plant 2	13	25-Jun-16 A	07-Jul-16 A	Final Basis of Design Report (BODR) - CD Secondary Clarifiers Plant 2																															
CD20780	30% Design Submittal - CD Secondary Clarifiers Plant 2	50	08-Jul-16 A	26-Aug-16 A	30% Design Submittal - CD Secondary Clarifiers Plant 2																															
CD20790	30% Design Review - CD Secondary Clarifiers Plant 2	7	27-Aug-16 A	02-Sep-16 A	30% Design Review - CD Secondary Clarifiers Plant 2																															
CD20800	60% Design Submittal - CD Secondary Clarifiers Plant 2	42	03-Sep-16 A	14-Oct-16 A	60% Design Submittal - CD Secondary Clarifiers Plant 2																															
CD20810	60% Design Review - CD Secondary Clarifiers Plant 2	5	15-Oct-16 A	19-Oct-16 A	60% Design Review - CD Secondary Clarifiers Plant 2																															
CD20820	100% Design Submittal - CD Secondary Clarifiers Plant 2	64	20-Oct-16 A	22-Dec-16 A	100% Design Submittal - CD Secondary Clarifiers Plant 2																															
CD84360	Engineering Design - CD Secondary Clarifiers Plant 2	323	16-Mar-16 A	01-Feb-17 A	Engineering Design - CD Secondary Clarifiers Plant 2																															
CD40350	100% Design Review/Permit Ready Submittal - CD Secondary Clarifiers Plant 2	41	23-Dec-16 A	01-Feb-17 A	100% Design Review/Permit Ready Submittal - CD Secondary Clarifiers Plant 2																															
Permitting					466	28-Jul-16 A	22-May-18 A	22-May-18 A, Permitting																												
CD80140	FDEP Permit - CD Secondary Clarifiers Plant 2	181	28-Jul-16 A	24-Jan-17 A	FDEP Permit - CD Secondary Clarifiers Plant 2																															
CD80150	RER Permit - CD Secondary Clarifiers Plant 2	97	03-Feb-17 A	10-May-17 A	RER Permit - CD Secondary Clarifiers Plant 2																															
CD84370	Permitting - CD Secondary Clarifiers Plant	466	28-Jul-16 A	22-May-18 A	Permitting - CD Secondary Clarifiers Plant																															
CD80160	City of Miami Permit - CD Secondary Clarifiers Plant 2	180	10-May-17 A	22-May-18 A	City of Miami Permit - CD Secondary Clarifiers Plant 2																															
Procurement					692	03-Feb-17 A	29-Nov-18 A	29-Nov-18 A, Procurement																												
CD84130	GMOU submittal and approval - CD Secondary Clarifiers Plant 2	21	03-Feb-17 A	23-Feb-17 A	GMOU submittal and approval - CD Secondary Clarifiers Plant 2																															
CD84010	Internal Bid Package Review - CD Secondary Clarifiers Plant 2	3	13-Nov-17 A	26-Nov-17 A	Internal Bid Package Review - CD Secondary Clarifiers Plant 2																															
CD31280	Design Documents Sent to Procurement - CD Secondary Clarifiers Plant 2	0	27-Nov-17 A		Design Documents Sent to Procurement - CD Secondary Clarifiers Plant 2																															
CD31290	Submit/Approve SBD Goals and Request to Advertise - CD Secondary Clarifiers Plant 2	60	22-Jan-18 A	11-Apr-18 A	Submit/Approve SBD Goals and Request to Advertise - CD Secondary Clarifiers Plant 2																															
CD31300	Advertise Bid Package - CD Secondary Clarifiers Plant 2	0	12-Apr-18 A		◆ Advertise Bid Package - CD Secondary Clarifiers Plant 2																															
CD31310	Bid Solicitation Period - CD Secondary Clarifiers Plant 2	45	12-Apr-18 A	04-Jun-18 A	◆ Bid Solicitation Period - CD Secondary Clarifiers Plant 2																															
CD31320	Bids Due - CD Secondary Clarifiers Plant 2	0	05-Jun-18 A		◆ Bids Due - CD Secondary Clarifiers Plant 2																															
CD31330	Bid Review Period - CD Secondary Clarifiers Plant 2	60	05-Jun-18 A	12-Oct-18 A	◆ Bid Review Period - CD Secondary Clarifiers Plant 2																															
CD31340	Award Recommendation - CD Secondary Clarifiers Plant 2	0		12-Oct-18 A	◆ Award Recommendation - CD Secondary Clarifiers Plant 2																															
CD84380	Procurement - CD Secondary Clarifiers Plant 2	270	27-Nov-17 A	29-Nov-18 A	Procurement - CD Secondary Clarifiers Plant 2																															
CD31350	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Secondary Clarifiers Plant 2	45	13-Oct-18 A	29-Nov-18 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Secondary Clarifiers Plant 2																															
Construction					1775	06-Dec-18 A	09-Nov-23	09-Nov-23, Construction																												
CD11113	Contractor Notice to Proceed (NTP) - CD Secondary Clarifiers Plant 2	0	06-Dec-18 A		◆ Contractor Notice to Proceed (NTP) - CD Secondary Clarifiers Plant 2																															
CD80120	Construction 2 Electrical Buildings - CD Secondary Clarifiers Plant 2	348	06-Dec-18 A	10-Dec-20	Construction 2 Electrical Buildings - CD Secondary Clarifiers Plant 2																															
CD84390	Construction Clarifiers - CD Secondary Clarifiers Plant 2	1740	06-Dec-18 A	11-Sep-23	Construction Clarifiers - CD Secondary Clarifiers Plant 2																															
CD86250	Commissioning - CD Secondary Clarifiers Plant 2	60	14-Jul-23	11-Sep-23	Commissioning - CD Secondary Clarifiers Plant 2																															
CD83700	Substantial Completion (CD Compliance Date 12/01/24) - CD Secondary Clarifiers Plant 2	0		11-Sep-23*	◆ Substantial Completion (CD Compliance Date 12/01/24) - CD Secondary Clarifiers Plant 2																															
CD40060	Project Closeout - CD Secondary Clarifiers Plant 2	59	12-Sep-23	09-Nov-23*	Project Closeout - CD Secondary Clarifiers Plant 2																															
Project Administration					2615	16-Mar-16 A	09-Nov-23	09-Nov-23, Project Administration																												
CD85150	WASD Project Administration - CD Secondary Clarifiers Plant 2	2615	16-Mar-16 A	09-Nov-23	WASD Project Administration - CD Secondary Clarifiers Plant 2																															
2.08 (2) Secondary Clarifiers Plant 2 Train Mechanisms					1351	21-Nov-18 A	27-Jun-22	27-Jun-22, 2.08 (2) Secondary Clarifiers Plant 2 Train Mechanisms																												
Construction					1306	21-Nov-18 A	27-Jun-22	27-Jun-22, Construction																												
CD83710	Construction Trains 2&3 - CD Secondary Clarifiers Train Mechanisms	45	21-Nov-18 A	30-Aug-19 A	Construction Trains 2&3 - CD Secondary Clarifiers Train Mechanisms																															
CD83720	Construction Train 9 - CD Secondary Clarifiers Train Mechanisms	180	20-Sep-19 A	17-Mar-20	Construction Train 9 - CD Secondary Clarifiers Train Mechanisms																															
CD86100	Construction Train 4 - CD Secondary Clarifiers Train Mechanisms	180	25-Feb-20	22-Aug-20	Construction Train 4 - CD Secondary Clarifiers Train Mechanisms																															
CD83730	Construction Trains 10 - CD Secondary Clarifiers Train Mechanisms	180	26-Jul-20	21-Jan-21	Construction Trains 10 - CD Secondary Clarifiers Train Mechanisms																															
CD87170	Construction Trains 1 - CD Secondary Clarifiers Train Mechanisms	180	27-Jul-20	22-Jan-21	Construction Trains 1 - CD Secondary Clarifiers Train Mechanisms																															
CD83740	Construction Trains 7 - CD Secondary Clarifiers Train Mechanisms	180	23-Jan-21	21-Jul-21	Construction Trains 7 - CD Secondary Clarifiers Train Mechanisms																															
CD87180	Construction Trains 8 - CD Secondary Clarifiers Train Mechanisms	180	23-Jan-21	21-Jul-21	Construction Trains 8 - CD Secondary Clarifiers Train Mechanisms																															
CD84400	Construction Trains - CD Secondary Clarifiers Plant 2 Train Mechanisms	1261	21-Nov-18 A	29-Mar-22	Construction Trains - CD Secondary Clarifiers Plant 2 Train Mechanisms																															
CD83750	Construction Trains 6 - CD Secondary Clarifiers Train Mechanisms	180	01-Oct-21	29-Mar-22	Construction Trains 6 - CD Secondary Clarifiers Train Mechanisms																															
CD83760	Substantial Completion (CD Compliance Date 12/01/24) - CD Secondary Clarifiers Train Mechanisms	0		29-Mar-22*	◆ Substantial Completion (CD Compliance Date 12/01/24) - CD Secondary Clarifiers Train Mechanisms																															
CD85710	Project Closeout - CD Secondary Clarifiers Train Mechanisms	90	30-Mar-22	27-Jun-22*	Project Closeout - CD Secondary Clarifiers Train Mechanisms																															
Project Administration					1351	21-Nov-18 A	27-Jun-22	27-Jun-22, Project Administration																												
CD85160	WASD Project Administration - CD Secondary Clarifiers Train Mechanisms	1351	21-Nov-18 A	27-Jun-22	WASD Project Administration - CD Secondary Clarifiers Train Mechanisms																															
2.08 (3) Secondary Clarifiers Plant 2 Structural Rehab					1795	14-Jul-17 A	12-Jun-22	12-Jun-22, 2.08 (3) Secondary Clarifiers Plant 2 Structural Rehab																												
Pre-Design					148	14-Jul-17 A	09-Feb-18 A	09-Feb-18 A, Pre-Design																												
CD83770	Pre-Design Trains 1-10 - CD Secondary Clarifiers Structural Rehab	148	14-Jul-17 A	09-Feb-18 A	Pre-Design Trains 1-10 - CD Secondary Clarifiers Structural Rehab																															
Engineering Design					123	12-Feb-18 A	16-Jul-18 A	16-Jul-18 A, Engineering Design																												
CD85730	50% Design Submittal - CD Secondary Clarifiers Plant 2 Structural Rehab	120	12-Feb-18 A	25-Apr-18 A	50% Design Submittal - CD Secondary Clarifiers Plant 2 Structural Rehab																															
CD85740	50% Design Review - CD Secondary Clarifiers Plant 2 Structural Rehab	7	26-Apr-18 A	16-May-18 A	50% Design Review - CD Secondary Clarifiers Plant 2 Structural Rehab																															
CD85750	100% Design Submittal - CD Secondary Clarifiers Plant 2 Structural Rehab	21	16-May-18 A	16-May-18 A	100% Design Submittal - CD Secondary Clarifiers Plant 2 Structural Rehab																															
CD84410	Engineering Design - CD Secondary Clarifiers Plant 2 Structural Rehab	120	12-Feb-18 A	16-Jul-18 A	Engineering Design - CD Secondary Clarifiers Plant 2 Structural Rehab																															
CD85760	100% Design Review/Bid Ready Submittal - CD Secondary Clarifiers Plant 2 Structural Rehab	20	16-May-18 A	16-Jul-18 A	100% Design Review/Bid Ready Submittal - CD Secondary Clarifiers Plant 2 Structural Rehab																															
Procurement					1187	17-Jul-18 A	30-Sep-21	30-Sep-21, Procurement																												
CD83870	Procurement Trains 2&3 - CD Secondary Clarifiers Structural Rehab	90	17-Jul-18 A	20-Nov-18 A	Procurement Trains 2&3 - CD Secondary Clarifiers Structural Rehab																															
CD87030	Procurement Trains 9 - CD Secondary Clarifiers Structural Rehab	90	23-Aug-18 A	05-Oct-19 A	Procurement Trains 9 - CD Secondary Clarifiers Structural Rehab																															
CD83890	Procurement Trains 8 - CD Secondary Clarifiers Structural Rehab	133	28-May-19 A	24-Feb-20	Procurement Trains 8 - CD Secondary Clarifiers Structural Rehab																															
CD87040	Procurement Trains 10 - CD Secondary Clarifiers Structural Rehab	133	28-May-19 A	26-Jul-20	Procurement Trains 10 - CD Secondary Clarifiers Structural Rehab																															

Activity ID	Activity Name	Original Duration	Start	Finish	2018		2019				2020				2021				2022				2023				2024				2025				2026	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
CD87050	Procurement Trains 4 - CD Secondary Clarifiers Structural Rehab	253	28-May-19 A	26-Jul-20	Procurement Trains 4 - CD Secondary Clarifiers Structural Rehab																															
CD83900	Procurement Trains 7 - CD Secondary Clarifiers Structural Rehab	180	27-Jul-20	22-Jan-21*	Procurement Trains 7 - CD Secondary Clarifiers Structural Rehab																															
CD87060	Procurement Trains 1 - CD Secondary Clarifiers Structural Rehab	180	27-Jul-20	22-Jan-21*	Procurement Trains 1 - CD Secondary Clarifiers Structural Rehab																															
CD84420	Procurement - CD Secondary Clarifiers Plant 2 Structural Rehab	1187	17-Jul-18 A	30-Sep-21	Procurement - CD Secondary Clarifiers Plant 2 Structural Rehab																															
CD83910	Procurement Trains 5 - CD Secondary Clarifiers Structural Rehab	180	04-Apr-21	30-Sep-21*	Procurement Trains 5 - CD Secondary Clarifiers Structural Rehab																															
CD87070	Procurement Trains 6 - CD Secondary Clarifiers Structural Rehab	180	04-Apr-21	30-Sep-21*	Procurement Trains 6 - CD Secondary Clarifiers Structural Rehab																															
Construction					12-Jun-22, Construction																															
CD87160	Construction Trains 3 - CD Secondary Clarifiers Structural Rehab	112	21-Nov-18 A	06-May-19 A	Construction Trains 3 - CD Secondary Clarifiers Structural Rehab																															
CD83920	Construction Trains 2 - CD Secondary Clarifiers Structural Rehab	142	21-Nov-18 A	21-Jun-19 A	Construction Trains 2 - CD Secondary Clarifiers Structural Rehab																															
CD83930	Construction Train 9 - CD Secondary Clarifiers Structural Rehab	135	07-Oct-19 A	18-Feb-20	Construction Train 9 - CD Secondary Clarifiers Structural Rehab																															
CD86090	Construction Train 8 - CD Secondary Clarifiers Structural Rehab	165	25-Feb-20	07-Aug-20	Construction Train 8 - CD Secondary Clarifiers Structural Rehab																															
CD83940	Construction Trains 10 - CD Secondary Clarifiers Structural Rehab	165	27-Jul-20	07-Jan-21	Construction Trains 10 - CD Secondary Clarifiers Structural Rehab																															
CD87080	Construction Trains 4 - CD Secondary Clarifiers Structural Rehab	165	27-Jul-20	07-Jan-21	Construction Trains 4 - CD Secondary Clarifiers Structural Rehab																															
CD83950	Construction Trains 7 - CD Secondary Clarifiers Structural Rehab	165	23-Jan-21	06-Jul-21	Construction Trains 7 - CD Secondary Clarifiers Structural Rehab																															
CD87090	Construction Trains 1 - CD Secondary Clarifiers Structural Rehab	165	23-Jan-21	06-Jul-21	Construction Trains 1 - CD Secondary Clarifiers Structural Rehab																															
CD84430	Construction - CD Secondary Clarifiers Plant 2 Structural Rehab	1188	21-Nov-18 A	14-Mar-22	Construction - CD Secondary Clarifiers Plant 2 Structural Rehab																															
CD83960	Construction Trains 5 - CD Secondary Clarifiers Structural Rehab	165	01-Oct-21	14-Mar-22	Construction Trains 5 - CD Secondary Clarifiers Structural Rehab																															
CD87100	Construction Trains 6 - CD Secondary Clarifiers Structural Rehab	165	01-Oct-21	14-Mar-22	Construction Trains 6 - CD Secondary Clarifiers Structural Rehab																															
CD83970	Substantial Completion (CD Compliance Date 12/01/24) - CD Secondary Clarifiers Structural Rehab	0		14-Mar-22*	Substantial Completion (CD Compliance Date 12/01/24) - CD Secondary Clarifiers Structural Rehab																															
CD85720	Project Closeout - CD Secondary Clarifiers Structural Rehab	90	15-Mar-22	12-Jun-22*	Project Closeout - CD Secondary Clarifiers Structural Rehab																															
Project Administration					12-Jun-22, Project Administration																															
CD85170	WASD Project Administration - CD Secondary Clarifiers Structural Rehab	1447	12-Feb-18 A	12-Jun-22	WASD Project Administration - CD Secondary Clarifiers Structural Rehab																															
2.09 Return Sludge PS Plant 1					15-Aug-26																															
Pre-Design					30-Jul-18 A, Pre-Design																															
CD11272	Pre-Design - CD Return Sludge PS Plant 1	181	10-May-17 A	30-Jul-18 A	Pre-Design - CD Return Sludge PS Plant 1																															
Engineering Design					05-Oct-21, Engineering Design																															
CD20840	Basis of Design Report (BODR) - CD Return Sludge PS Plant 1	60	31-Jul-18 A	08-Mar-19 A	Basis of Design Report (BODR) - CD Return Sludge PS Plant 1																															
CD20850	30% Design Submittal - CD Return Sludge PS Plant 1	41	16-Feb-19 A	21-Mar-19 A	30% Design Submittal - CD Return Sludge PS Plant 1																															
CD20860	30% Design Review - CD Return Sludge PS Plant 1	13	22-Mar-19 A	12-Apr-19 A	30% Design Review - CD Return Sludge PS Plant 1																															
CD20870	60% Design Submittal - CD Return Sludge PS Plant 1	55	13-Apr-19 A	30-May-19 A	60% Design Submittal - CD Return Sludge PS Plant 1																															
CD20880	60% Design Review - CD Return Sludge PS Plant 1	10	31-May-19 A	23-Jun-19 A	60% Design Review - CD Return Sludge PS Plant 1																															
CD20890	100% Design Submittal - CD Return Sludge PS Plant 1	56	24-Jun-19 A	20-Aug-19 A	100% Design Submittal - CD Return Sludge PS Plant 1																															
CD11340	Engineering Design - CD Return Sludge PS Plant 1	398	30-Jul-18 A	03-Jan-20	Engineering Design - CD Return Sludge PS Plant 1																															
CD40360	100% Design Review/Permit Ready Submittal - CD Return Sludge PS Plant 1	30	21-Aug-19 A	03-Jan-20	100% Design Review/Permit Ready Submittal - CD Return Sludge PS Plant 1																															
CD82620	EPA Start Date for Engineering Design - CD Return Sludge PS Plant 1	0		01-Apr-21*	EPA Start Date for Engineering Design - CD Return Sludge PS Plant 1																															
CD80740	EPA Compliance Date for Engineering Design - CD Return Sludge PS Plant 1	0		05-Oct-21*	EPA Compliance Date for Engineering Design - CD Return Sludge PS Plant 1																															
Permitting					05-Oct-22, Permitting																															
CD87120	FDEP Permit - CD Return Sludge PS Plant 1	60	18-Apr-19 A	23-Aug-19 A	FDEP Permit - CD Return Sludge PS Plant 1																															
CD11390	Permitting - CD Return Sludge PS Plant 1	173	04-Jan-20	24-Jun-20	Permitting - CD Return Sludge PS Plant 1																															
CD82630	EPA Start Date for Permitting - CD Return Sludge PS Plant 1	0		06-Oct-21*	EPA Start Date for Permitting - CD Return Sludge PS Plant 1																															
CD80750	EPA Compliance Date for Permitting - CD Return Sludge PS Plant 1	0		05-Oct-22*	EPA Compliance Date for Permitting - CD Return Sludge PS Plant 1																															
Procurement					05-Oct-23, Procurement																															
CD84020	Internal Bid Package Review - CD Return Sludge PS Plant 1	30	25-Jun-20	24-Jul-20	Internal Bid Package Review - CD Return Sludge PS Plant 1																															
CD31360	Design Documents Sent to Procurement - CD Return Sludge PS Plant 1	0		25-Jul-20	Design Documents Sent to Procurement - CD Return Sludge PS Plant 1																															
CD31370	Submit/Approve SBD Goals and Request to Advertise - CD Return Sludge PS Plant 1	60	25-Jul-20	22-Sep-20	Submit/Approve SBD Goals and Request to Advertise - CD Return Sludge PS Plant 1																															
CD31380	Advertise Bid Package - CD Return Sludge PS Plant 1	0		23-Sep-20	Advertise Bid Package - CD Return Sludge PS Plant 1																															
CD31390	Bid Solicitation Period - CD Return Sludge PS Plant 1	60	23-Sep-20	21-Nov-20	Bid Solicitation Period - CD Return Sludge PS Plant 1																															
CD31400	Bids Due - CD Return Sludge PS Plant 1	0		22-Nov-20	Bids Due - CD Return Sludge PS Plant 1																															
CD31410	Bid Review Period - CD Return Sludge PS Plant 1	30	22-Nov-20	21-Dec-20	Bid Review Period - CD Return Sludge PS Plant 1																															
CD31420	Award Recommendation - CD Return Sludge PS Plant 1	0		21-Dec-20	Award Recommendation - CD Return Sludge PS Plant 1																															
CD11520	Procurement - CD Return Sludge PS Plant 1	270	25-Jul-20	20-Apr-21	Procurement - CD Return Sludge PS Plant 1																															
CD31430	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Return Sludge PS Plant 1	120	22-Dec-20	20-Apr-21	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Return Sludge PS Plant 1																															
CD82640	EPA Start Date for Procurement - CD Return Sludge PS Plant 1	0		06-Oct-22*	EPA Start Date for Procurement - CD Return Sludge PS Plant 1																															
CD80760	EPA Compliance Date for Procurement - CD Return Sludge PS Plant 1	0		05-Oct-23*	EPA Compliance Date for Procurement - CD Return Sludge PS Plant 1																															
Construction					15-Aug-26																															
CD11583	Contractor Notice to Proceed (NTP) - CD Return Sludge PS Plant 1	0		21-Apr-21	Contractor Notice to Proceed (NTP) - CD Return Sludge PS Plant 1																															
CD11590	Construction PS #1 - CD Return Sludge PS Plant 1	496	21-Apr-21	29-Aug-22	Construction PS #1 - CD Return Sludge PS Plant 1																															
CD11630	Construction PS #2 - CD Return Sludge PS Plant 1	400	30-Aug-22	03-Oct-23	Construction PS #2 - CD Return Sludge PS Plant 1																															
CD82650	EPA Start Date for Construction - CD Return Sludge PS Plant 1	0		06-Oct-23*	EPA Start Date for Construction - CD Return Sludge PS Plant 1																															
CD11588	Construction - CD Return Sludge PS Plant 1	1296	21-Apr-21	06-Nov-24	Construction - CD Return Sludge PS Plant 1																															
CD11660	Construction PS #3 - CD Return Sludge PS Plant 1	400	04-Oct-23	06-Nov-24	Construction PS #3 - CD Return Sludge PS Plant 1																															
CD86260	Commissioning - CD Return Sludge PS Plant 1	30	08-Oct-24	06-Nov-24	Commissioning - CD Return Sludge PS Plant 1																															
CD11700	Substantial Completion (CD Compliance Date 8/15/26) - CD Return Sludge PS Plant 1	0		06-Nov-24*	Substantial Completion (CD Compliance Date 8/15/26) - CD Return Sludge PS Plant 1																															
CD40070	Project Closeout - CD Return Sludge PS Plant 1	90	07-Nov-24	04-Feb-25*	Project Closeout - CD Return Sludge PS Plant 1																															
CD80800	EPA Compliance Date for Construction - CD Return Sludge PS Plant 1	0		15-Aug-26*	EPA Compliance Date for Construction - CD Return Sludge PS Plant 1																															
Project Administration					04-Feb-25, Project Administration																															
CD34020	WASD Project Administration - CD Return Sludge PS Plant 1	1986	31-Jul-18 A	04-Feb-25	WASD Project Administration - CD Return Sludge PS Plant 1																															
2.10 Return Sludge PS Plant 2					01-Dec-24, 2.10 Return Sludge PS Plant 2																															
Engineering Design					31-Mar-17 A																															
CD82660	EPA Start Date for Engineering Design - CD Return Sludge PS Plant 2	0		01-Jun-16 A	EPA Start Date for Engineering Design - CD Return Sludge PS Plant 2																															
CD10620	Engineering Design - CD Return Sludge PS Plant 2	0		13-Jan-16 A	Engineering Design - CD Return Sludge PS Plant 2																															
CD80810	EPA Compliance Date for Engineering Design - CD Return Sludge PS Plant 2	0		31-Mar-17 A	EPA Compliance Date for Engineering Design - CD Return Sludge PS Plant 2																															
Permitting					22-May-18 A, Permitting																															
CD82670	EPA Start Date for Permitting - CD Return Sludge PS Plant 2	0		06-Dec-16 A	EPA Start Date for Permitting - CD Return Sludge PS Plant 2																															

Activity ID	Activity Name	Original Duration	Start	Finish	2018		2019				2020				2021				2022				2023				2024				2025				2026	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
CD80820	EPA Compliance Date for Permitting - CD Return Sludge PS Plant 2	0		05-Dec-17 A	EPA Compliance Date for Permitting - CD Return Sludge PS Plant 2																															
CD10780	Permitting - CD Return Sludge PS Plant 2	593	22-Mar-16 A	22-May-18 A	Permitting - CD Return Sludge PS Plant 2																															
Procurement					05-Dec-18 A, Procurement																															
CD82680	EPA Start Date for Procurement - CD Return Sludge PS Plant 2	0	06-Dec-17 A		EPA Start Date for Procurement - CD Return Sludge PS Plant 2																															
CD10990	Procurement - CD Return Sludge PS Plant 2	844	14-Apr-16 A	29-Nov-18 A	Procurement - CD Return Sludge PS Plant 2																															
CD80830	EPA Compliance Date for Procurement - CD Return Sludge PS Plant 2	0		05-Dec-18 A	EPA Compliance Date for Procurement - CD Return Sludge PS Plant 2																															
Construction					01-Dec-24, Construction																															
CD82690	EPA Start Date for Construction - CD Return Sludge PS Plant 2	0	06-Dec-18 A		EPA Start Date for Construction - CD Return Sludge PS Plant 2																															
CD11108	Construction - CD Return Sludge PS Plant 2	2578	22-Apr-16 A	11-Sep-23	Construction - CD Return Sludge PS Plant 2																															
CD85490	Substantial Completion (CD Compliance Date 12/01/24) - CD Return Sludge PS Plant 2	0		11-Sep-23*	Substantial Completion (CD Compliance Date 12/01/24) - CD Return Sludge PS Plant 2																															
CD80860	EPA Compliance Date for Construction - CD Return Sludge PS Plant 2	0		01-Dec-24*	EPA Compliance Date for Construction - CD Return Sludge PS Plant 2																															
Project Administration					09-Nov-23, Project Administration																															
CD34030	WASD Project Administration - CD Return Sludge PS Plant 2	2705	16-Mar-16 A	09-Nov-23	WASD Project Administration - CD Return Sludge PS Plant 2																															
2.10 (1) Return Sludge PS Plant 2 - RAS Pump					09-Nov-23, 2.10 (1) Return Sludge PS Plant 2 - RAS Pump																															
Pre-Design					15-Jul-15 A, 15-Mar-16 A																															
CD11282	Pre-Design - CD Return Sludge PS Plant 2	244	15-Jul-15 A	15-Mar-16 A	Pre-Design - CD Return Sludge PS Plant 2																															
Engineering Design					16-Mar-16 A, 01-Feb-17 A																															
CD20900	Draft Basis of Design Report (BODR) - CD Return Sludge PS Plant 2	94	16-Mar-16 A	17-Jun-16 A	Draft Basis of Design Report (BODR) - CD Return Sludge PS Plant 2																															
CD41060	BODR Review Period - CD Return Sludge PS Plant 2	7	18-Jun-16 A	24-Jun-16 A	BODR Review Period - CD Return Sludge PS Plant 2																															
CD70970	Final Basis of Design Report (BODR) - CD Return Sludge PS Plant 2	13	25-Jun-16 A	07-Jul-16 A	Final Basis of Design Report (BODR) - CD Return Sludge PS Plant 2																															
CD20910	30% Design Submittal - CD Return Sludge PS Plant 2	50	08-Jul-16 A	26-Aug-16 A	30% Design Submittal - CD Return Sludge PS Plant 2																															
CD20920	30% Design Review - CD Return Sludge PS Plant 2	7	27-Aug-16 A	02-Sep-16 A	30% Design Review - CD Return Sludge PS Plant 2																															
CD20930	60% Design Submittal - CD Return Sludge PS Plant 2	42	03-Sep-16 A	14-Oct-16 A	60% Design Submittal - CD Return Sludge PS Plant 2																															
CD20940	60% Design Review - CD Return Sludge PS Plant 2	5	15-Oct-16 A	19-Oct-16 A	60% Design Review - CD Return Sludge PS Plant 2																															
CD20950	100% Design Submittal - CD Return Sludge PS Plant 2	64	20-Oct-16 A	22-Dec-16 A	100% Design Submittal - CD Return Sludge PS Plant 2																															
CD84440	Engineering Design - CD Return Sludge PS Plant 2 - RAS Pump	323	16-Mar-16 A	01-Feb-17 A	Engineering Design - CD Return Sludge PS Plant 2 - RAS Pump																															
CD40370	100% Design Review/Permit Ready Submittal - CD Return Sludge PS Plant 2	41	23-Dec-16 A	01-Feb-17 A	100% Design Review/Permit Ready Submittal - CD Return Sludge PS Plant 2																															
Permitting					18-Jul-16 A, 22-May-18 A, Permitting																															
CD80220	FDEP Permit (Remaining Scope) - CD Return Sludge PS Plant 2	191	18-Jul-16 A	24-Jan-17 A	FDEP Permit (Remaining Scope) - CD Return Sludge PS Plant 2																															
CD80210	RER Permit (Remaining Scope) - CD Return Sludge PS Plant 2	98	02-Feb-17 A	10-May-17 A	RER Permit (Remaining Scope) - CD Return Sludge PS Plant 2																															
CD84450	Permitting - CD Return Sludge PS Plant 2 - RAS Pump	476	18-Jul-16 A	22-May-18 A	Permitting - CD Return Sludge PS Plant 2 - RAS Pump																															
CD40710	City of Miami Permit (Remaining Scope) - CD Return Sludge PS Plant 2	180	10-May-17 A	22-May-18 A	City of Miami Permit (Remaining Scope) - CD Return Sludge PS Plant 2																															
Procurement					03-Feb-17 A, 29-Nov-18 A, Procurement																															
CD84150	GMOU submittal and approval - CD Return Sludge PS Plant 2	21	03-Feb-17 A	23-Feb-17 A	GMOU submittal and approval - CD Return Sludge PS Plant 2																															
CD84030	Internal Bid Package Review - CD Return Sludge PS Plant 2	3	13-Nov-17 A	26-Nov-17 A	Internal Bid Package Review - CD Return Sludge PS Plant 2																															
CD31440	Design Documents Sent to Procurement - CD Return Sludge PS Plant 2	0	27-Nov-17 A		Design Documents Sent to Procurement - CD Return Sludge PS Plant 2																															
CD31450	Submit/Approve SBD Goals and Request to Advertise - CD Return Sludge PS Plant 2	60	22-Jan-18 A	11-Apr-18 A	Submit/Approve SBD Goals and Request to Advertise - CD Return Sludge PS Plant 2																															
CD31460	Advertise Bid Package - CD Return Sludge PS Plant 2	0	12-Apr-18 A		Advertise Bid Package - CD Return Sludge PS Plant 2																															
CD31470	Bid Solicitation Period - CD Return Sludge PS Plant 2	5	12-Apr-18 A	04-Jun-18 A	Bid Solicitation Period - CD Return Sludge PS Plant 2																															
CD31480	Bids Due - CD Return Sludge PS Plant 2	0	05-Jun-18 A		Bids Due - CD Return Sludge PS Plant 2																															
CD31490	Bid Review Period - CD Return Sludge PS Plant 2	60	05-Jun-18 A	12-Oct-18 A	Bid Review Period - CD Return Sludge PS Plant 2																															
CD31500	Award Recommendation - CD Return Sludge PS Plant 2	0		12-Oct-18 A	Award Recommendation - CD Return Sludge PS Plant 2																															
CD84460	Procurement - CD Return Sludge PS Plant 2 - RAS Pump	270	27-Nov-17 A	29-Nov-18 A	Procurement - CD Return Sludge PS Plant 2 - RAS Pump																															
CD31510	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Return Sludge PS Plant 2	45	13-Oct-18 A	29-Nov-18 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Return Sludge PS Plant 2																															
Construction					09-Nov-23, Construction																															
CD11103	Contractor Notice to Proceed (NTP) - CD Return Sludge PS Plant 2	0	06-Dec-18 A		Contractor Notice to Proceed (NTP) - CD Return Sludge PS Plant 2																															
CD84470	Construction - CD Return Sludge PS Plant 2 - RAS Pump	1740	06-Dec-18 A	11-Sep-23	Construction - CD Return Sludge PS Plant 2 - RAS Pump																															
CD86270	Commissioning - CD Return Sludge PS Plant 2	60	14-Jul-23	11-Sep-23*	Commissioning - CD Return Sludge PS Plant 2																															
CD11580	Substantial Completion (CD Compliance Date 12/01/24) - CD Return Sludge PS Plant 2	0		11-Sep-23*	Substantial Completion (CD Compliance Date 12/01/24) - CD Return Sludge PS Plant 2																															
CD40080	Project Closeout - CD Return Sludge PS Plant 2	59	12-Sep-23	09-Nov-23*	Project Closeout - CD Return Sludge PS Plant 2																															
Project Administration					09-Nov-23, Project Administration																															
CD85180	WASD Project Administration - CD Return Sludge PS Plant 2	2705	16-Mar-16 A	09-Nov-23	WASD Project Administration - CD Return Sludge PS Plant 2																															
2.10 (2) Return Sludge PS Plant 2 - RAS Line					13-Jan-16 A, 07-Jul-17 A, 2.10 (2) Return Sludge PS Plant 2 - RAS Line																															
Engineering Design					13-Jan-16 A, 13-Apr-16 A																															
CD40660	RAS Header pipe Design Validation - CD Return Sludge PS Plant 2	15	13-Jan-16 A	27-Jan-16 A	RAS Header pipe Design Validation - CD Return Sludge PS Plant 2																															
CD84480	Engineering Design - Return Sludge PS Plant 2 - RAS Line	92	13-Jan-16 A	13-Apr-16 A	Engineering Design - Return Sludge PS Plant 2 - RAS Line																															
CD40670	RAS Header pipe 100% Design Submission - CD Return Sludge PS Plant 2	77	28-Jan-16 A	13-Apr-16 A	RAS Header pipe 100% Design Submission - CD Return Sludge PS Plant 2																															
Permitting					22-Mar-16 A																															
CD81330	FDEP Permit (RAS Header Pipe) - CD Return Sludge PS Plant 2	0		22-Mar-16 A	FDEP Permit (RAS Header Pipe) - CD Return Sludge PS Plant 2																															
Procurement					14-Apr-16 A, 20-Apr-16 A																															
CD40690	Emergency Procurement of RAS Header Pipe - CD Return Sludge PS Plant 2	7	14-Apr-16 A	20-Apr-16 A	Emergency Procurement of RAS Header Pipe - CD Return Sludge PS Plant 2																															
Construction					22-Apr-16 A, 07-Jul-17 A, Construction																															
CD40700	Construction RAS Header Pipe - CD Return Sludge PS Plant 2	441	22-Apr-16 A	07-Jul-17 A	Construction RAS Header Pipe - CD Return Sludge PS Plant 2																															
Project Administration					22-Apr-16 A, 07-Jul-17 A, Project Administration																															
CD85190	WASD Project Administration - CD Return Sludge PS Plant 2	442	22-Apr-16 A	07-Jul-17 A	WASD Project Administration - CD Return Sludge PS Plant 2																															
2.11 Effluent Pump Station					19-Feb-16 A, 21-Jun-21, 2.11 Effluent Pump Station																															
Pre-Design					19-Feb-16 A, 28-Sep-16 A																															
CD11292	Pre-Design - CD Effluent Pump Station	223	19-Feb-16 A	28-Sep-16 A	Pre-Design - CD Effluent Pump Station																															
Engineering Design					24-Aug-16 A, 18-Aug-17 A																															
CD82270	Draft Technical Memo Submittal - CD Effluent Pump Station	20	24-Aug-16 A	12-Sep-16 A	Draft Technical Memo Submittal - CD Effluent Pump Station																															
CD82280	Final Technical Memo Submittal - CD Effluent Pump Station	21	13-Sep-16 A	03-Oct-16 A	Final Technical Memo Submittal - CD Effluent Pump Station																															
CD20560	Draft Basis of Design Report (BODR) - CD Effluent Pump Station	35	13-Sep-16 A	17-Oct-16 A	Draft Basis of Design Report (BODR) - CD Effluent Pump Station																															
CD20570	BODR Review Period - CD Effluent Pump Station	9	18-Oct-16 A	26-Oct-16 A	BODR Review Period - CD Effluent Pump Station																															
CD82290	Final Basis of Design Report (BODR) - CD Effluent Pump Station	14	27-Oct-16 A	09-Nov-16 A	Final Basis of Design Report (BODR) - CD Effluent Pump Station																															
CD80870	EPA Start Date for Engineering Design - CD Effluent Pump Station	0	01-Jan-17 A		EPA Start Date for Engineering Design - CD Effluent Pump Station																															

Activity ID	Activity Name	Original Duration	Start	Finish	2018				2019				2020				2021				2022				2023				2024				2025				2026	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
CD20580	30% Design Submittal - CD Effluent Pump Station	69	10-Nov-16 A	17-Jan-17 A	-																																	
CD20590	30% Design Review - CD Effluent Pump Station	24	18-Jan-17 A	10-Feb-17 A	-																																	
CD20600	60% Design Submittal - CD Effluent Pump Station	31	11-Feb-17 A	13-Mar-17 A	-																																	
CD20610	60% Design Review - CD Effluent Pump Station	16	14-Mar-17 A	29-Mar-17 A	-																																	
CD20620	100% Design Submittal - CD Effluent Pump Station	69	30-Mar-17 A	06-Jun-17 A	-																																	
CD10080	Engineering Design - CD Effluent Pump Station	297	24-Aug-16 A	16-Jun-17 A	-																																	
CD40380	100% Design Review/Permit Ready Submittal - CD Effluent Pump Station	10	07-Jun-17 A	16-Jun-17 A	-																																	
CD82700	EPA Compliance Date for Engineering Design - CD Effluent Pump Station	0		18-Aug-17 A	-																																	
Permitting																																						
CD84810	DERM Permit - CD Effluent Pump Station	19	22-Jun-17 A	10-Jul-17 A	-																																	
CD82710	EPA Start Date for Permitting - CD Effluent Pump Station	0	19-Aug-17 A		-																																	
CD10180	Permitting - CD Effluent Pump Station	152	22-Jun-17 A	27-Feb-18 A	-																																	
CD84820	City of Miami Permit - CD Effluent Pump Station	127	17-Jul-17 A	27-Feb-18 A	-																																	
CD80880	EPA Compliance Date for Permitting - CD Effluent Pump Station	0		20-Jun-18 A	-																																	
Procurement																																						
CD84180	GMOU submittal and approval - CD Effluent Pump Station	23	19-Jul-17 A	10-Aug-17 A	-																																	
CD84040	Internal Bid Package Review - CD Effluent Pump Station	1	06-Mar-18 A	06-Mar-18 A	-																																	
CD31520	Design Documents Sent to Procurement - CD Effluent Pump Station	0	07-Mar-18 A		-																																	
CD85850	Issue RTA to Director for Signature - CD Effluent Pump Station	0	18-Apr-18 A		-																																	
CD31530	Submit/Approve SBD Goals and Request to Advertise - CD Effluent Pump Station	24	07-Mar-18 A	29-May-18 A	-																																	
CD31540	Advertise Bid Package - CD Effluent Pump Station	0	30-May-18 A		-																																	
CD82720	EPA Start Date for Procurement - CD Effluent Pump Station	0	21-Jun-18 A		-																																	
CD31550	Bid Solicitation Period - CD Effluent Pump Station	64	30-May-18 A	16-Jul-18 A	-																																	
CD31560	Bids Due - CD Effluent Pump Station	0	17-Jul-18 A		-																																	
CD31570	Bid Review Period - CD Effluent Pump Station	30	17-Jul-18 A	20-Aug-18 A	-																																	
CD31580	Award Recommendation - CD Effluent Pump Station	0		20-Aug-18 A	-																																	
CD80890	EPA Compliance Date for Procurement - CD Effluent Pump Station	0		20-Jun-19 A	-																																	
CD10420	Procurement - CD Effluent Pump Station	231	07-Mar-18 A	04-Aug-19 A	-																																	
CD31590	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Effluent Pump Station	113	21-Aug-18 A	04-Aug-19 A	-																																	
Construction																																						
CD82730	EPA Start Date for Construction - CD Effluent Pump Station	0	21-Jun-19 A		-																																	
CD10658	Contractor Notice to Proceed (NTP) - CD Effluent Pump Station	0	05-Aug-19 A		-																																	
CD10660	Construction - CD Effluent Pump Station	440	05-Aug-19 A	17-Oct-20	-																																	
CD86280	Commissioning - CD Effluent Pump Station	30	18-Sep-20	17-Oct-20	-																																	
CD10870	Substantial Completion (CD Compliance Date 6/21/21) - CD Effluent Pump Station	0		17-Oct-20*	-																																	
CD40090	Project Closeout - CD Effluent Pump Station	60	18-Oct-20	16-Dec-20*	-																																	
CD80900	EPA Compliance Date for Construction - CD Effluent Pump Station	0		21-Jun-21*	-																																	
Project Administration																																						
CD34040	WASD Project Administration - CD Effluent Pump Station	1121	13-Sep-16 A	16-Dec-20	-																																	
2.12 Gravity Sludge Thickeners Plant 1																																						
Pre-Design																																						
CD11302	Pre-Design - CD Gravity Sludge Thickeners Plant 1	87	02-Feb-15 A	30-Apr-15 A	-																																	
Engineering Design																																						
CD20960	Basis of Design Report (BODR) - CD Gravity Sludge Thickeners Plant 1	868	16-Jun-15 A	05-Oct-17 A	-																																	
CD32810	BODR Design Review - CD Gravity Sludge Thickeners Plant 1	190	16-Jun-15 A	22-Dec-15 A	-																																	
CD10370	Engineering Design - CD Gravity Sludge Thickeners Plant 1	36	23-Dec-15 A	27-Jan-16 A	-																																	
CD41080	Issue Final RDBS - CD Gravity Sludge Thickeners Plant 1	288	16-Jun-15 A	29-Mar-16 A	-																																	
CD32620	Design Criteria Package Initial Submittal - CD Gravity Sludge Thickeners Plant 1	0		29-Mar-16 A	-																																	
CD32640	DCP Design Review - CD Gravity Sludge Thickeners Plant 1	90	28-Jan-16 A	26-Apr-16 A	-																																	
CD33260	DCP Design Review - CD Gravity Sludge Thickeners Plant 1	25	25-Apr-16 A	19-May-16 A	-																																	
CD33340	Pilot Testing of Thickening Process - CD Gravity Sludge Thickeners Plant 1	25	25-Apr-16 A	19-May-16 A	-																																	
CD32660	Final DCP Submittal - CD Gravity Sludge Thickeners Plant 1	298	04-Jan-16 A	27-Oct-16 A	-																																	
CD82740	EPA Start Date for Engineering Design - CD Gravity Sludge Thickeners Plant 1	188	20-May-16 A	23-Nov-16 A	-																																	
CD80910	EPA Compliance Date for Engineering Design - CD Gravity Sludge Thickeners Plant 1	0		01-Apr-17 A	-																																	
Permitting																																						
CD32680	FDEP Permit - CD Gravity Sludge Thickeners Plant 1	0		05-Oct-17 A	-																																	
CD87140	FDEP Permit (Revised BODR) - CD Gravity Sludge Thickeners Plant 1	126	29-Jan-16 A	02-Jun-16 A	-																																	
Procurement																																						
CD33220	RDBS Sent to Procurement - CD Gravity Sludge Thickeners Plant 1	60	19-Mar-19 A	27-Jan-20	-																																	
CD33230	Submit/Approve SBD Goals and Request to Advertise - CD Gravity Sludge Thickeners Plant 1	1624	29-Mar-16 A	18-May-20	-																																	
CD33240	Advertise RDBS - CD Gravity Sludge Thickeners Plant 1	0	29-Mar-16 A		-																																	
CD33250	Request for Qualifications - CD Gravity Sludge Thickeners Plant 1	113	29-Mar-16 A	19-Jul-16 A	-																																	
CD33260	Qualifications Package Due - CD Gravity Sludge Thickeners Plant 1	0	20-Jul-16 A		-																																	
CD33270	Qualification Review Period - CD Gravity Sludge Thickeners Plant 1	59	20-Jul-16 A	16-Sep-16 A	-																																	
CD33280	Shortlist Published - CD Gravity Sludge Thickeners Plant 1	0	17-Sep-16 A		-																																	
CD33290	Request for Proposals - CD Gravity Sludge Thickeners Plant 1	91	17-Sep-16 A	16-Dec-16 A	-																																	
CD33300	Proposals Due - CD Gravity Sludge Thickeners Plant 1	0		16-Dec-16 A	-																																	
CD33310	Proposal Review Period & Oral Presentations - CD Gravity Sludge Thickeners Plant 1	101	24-Jan-17 A	04-May-17 A	-																																	
CD33320	Award Recommendation - CD Gravity Sludge Thickeners Plant 1	0	05-May-17 A		-																																	
CD33330	Contract Negotiations - CD Gravity Sludge Thickeners Plant 1	112	05-May-17 A	24-Aug-17 A	-																																	
CD33340	Contract Negotiations - CD Gravity Sludge Thickeners Plant 1	0	25-Aug-17 A		-																																	
CD33350	Contract Negotiations - CD Gravity Sludge Thickeners Plant 1	53	25-Aug-17 A	17-Nov-17 A	-																																	
CD33360	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Gravity Sludge Thickeners Plant 1	79	18-Nov-17 A	01-May-18 A	-																																	
CD86110	Bid Cancellation - CD Gravity Sludge Thickeners Plant 1	0		30-May-18 A	-																																	
CD86170	TA Re-Negotiation and Approval - CD Gravity Sludge Thickeners Plant 1	60	11-May-18 A	23-Jul-18 A	-																																	
CD86430	Receipt of Revised Scope of Services, Submit DRAFT Review item to ISD/SBD for future solicitation, review and comments	20	09-Aug-18 A	28-Aug-18 A	-																																	
CD82760	EPA Start Date for Procurement - CD Gravity Sludge Thickeners Plant 1	0	06-Oct-18 A		-																																	

Activity ID	Activity Name	Original Duration	Start	Finish	2018												2019												2020												2021												2022												2023												2024												2025												2026											
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4																																																								
CD87000	Issue DCP and Request for Proposals - CD Gravity Sludge Thickeners Plant 2	15	12-Mar-19 A	19-Mar-19 A																																																																																																												
CD86680	Step 2 Submittal Due Date - CD Gravity Sludge Thickeners Plant 2	54	18-Mar-19 A	10-May-19 A																																																																																																												
CD86700	Step 2 Meeting - CD Gravity Sludge Thickeners Plant 2	30	10-May-19 A	12-Jun-19 A																																																																																																												
CD86690	Step 2 Proposal Review and Evaluation - CD Gravity Sludge Thickeners Plant 2	76	11-May-19 A	12-Jun-19 A																																																																																																												
CD86710	Negotiation Memo submitted / Approved by WASD Director - CD Gravity Sludge Thickeners Plant 2	60	13-Jun-19 A	01-Jul-19 A																																																																																																												
CD86730	Negotiations Commence - Contract provided to Firm (1st meeting) - CD Gravity Sludge Thickeners Plant 2	60	02-Jul-19 A	09-Aug-19 A																																																																																																												
CD86740	Negotiations Concluded and preparation of final Contract - CD Gravity Sludge Thickeners Plant 2	162	10-Aug-19 A	26-Sep-19 A																																																																																																												
CD86750	Contract Executed by Firm and obtain County Attorney, Risk Management and OMB signatures	78	27-Sep-19 A	13-Dec-19 A																																																																																																												
CD86760	Submit Contract Award Recommendation/Contract for internal approvals - CD Gravity Sludge Thickeners Plant 2	21	14-Dec-19 A	31-Jan-20																																																																																																												
CD86770	Submit/Approval of Item to Agenda Coordinator for committee & BCC Ratification - CD Gravity Sludge Thickeners Plant 2	56	01-Feb-20	27-Mar-20																																																																																																												
CD10860	Procurement - CD Gravity Sludge Thickeners Plant 2	679	29-Mar-16 A	18-May-20																																																																																																												
CD85960	Repackage and Rebid Project - CD Gravity Sludge Thickeners Plant 2	739	09-Aug-18 A	18-May-20																																																																																																												
CD86780	Issue NTP - CD Gravity Sludge Thickeners Plant 2	52	28-Mar-20	18-May-20																																																																																																												
Design-Build					09-May-23, Design-Build																																																																																																											
CD82810	EPA Start Date for Construction - CD Gravity Sludge Thickeners Plant 2**	0	06-Apr-18 A																																																																																																													
CD33510	Design-Builder NTP - CD Gravity Sludge Thickeners Plant 2	0	19-May-20																																																																																																													
CD30240	Final Engineering by Design-Builder - CD Gravity Sludge Thickeners Plant 2	300	19-May-20	14-Mar-21																																																																																																												
CD30250	AHJ Permit Review - CD Gravity Sludge Thickeners Plant 2	180	15-Nov-20	13-May-21																																																																																																												
CD84770	Design-Builder Contract Duration - CD Gravity Sludge Thickeners Plant 2	966	19-May-20	09-Jan-23																																																																																																												
CD11040	Construction - CD Gravity Sludge Thickeners Plant 2	786	15-Nov-20	09-Jan-23																																																																																																												
CD86300	Commissioning - CD Gravity Sludge Thickeners Plant 2	30	11-Dec-22	09-Jan-23																																																																																																												
CD11200	Substantial Completion (CD Compliance Date 1/13/23) - CD Gravity Sludge Thickeners Plant 2	0		09-Jan-23*																																																																																																												
CD80980	EPA Compliance Date for Construction - CD Gravity Sludge Thickeners Plant 2	0		13-Jan-23*																																																																																																												
CD40110	Project Closeout - CD Gravity Sludge Thickeners Plant 2	120	10-Jan-23	09-May-23*																																																																																																												
Project Administration					09-May-23, Project Administration																																																																																																											
CD34060	WASD Project Administration - CD Gravity Sludge Thickeners Plant 2	2085	01-May-15 A	09-May-23																																																																																																												
2.14 Digesters Plant 1					18-Jun-24, 2.14.1 Cluster 1																																																																																																											
2.14.1 Cluster 1					18-Jun-24, 2.14.1 Cluster 1																																																																																																											
Pre-Design					26-Jan-20, Pre-Design																																																																																																											
CD84520	Respond to EPA re. Project Repurposing - CD Digesters Plant 1 Cluster 1	0	21-May-18 A	26-Jan-20																																																																																																												
CD11312	Pre-Design - CD Digesters Plant 1 Cluster 1	27	31-Dec-19*	26-Jan-20																																																																																																												
Engineering Design					04-Nov-20, Engineering Design																																																																																																											
CD21320	Basis of Design Report (BODR) - CD Digesters Plant 1 Cluster 1	30	27-Jan-20	25-Feb-20																																																																																																												
CD21330	30% Design Submittal - CD Digesters Plant 1 Cluster 1	59	26-Feb-20	24-Apr-20																																																																																																												
CD82820	EPA Start Date for Engineering Design - CD Digesters Plant 1 Cluster 1	0	01-May-20*																																																																																																													
CD21340	30% Design Review - CD Digesters Plant 1 Cluster 1	14	25-Apr-20	08-May-20																																																																																																												
CD21350	60% Design Submittal - CD Digesters Plant 1 Cluster 1	49	09-May-20	26-Jun-20																																																																																																												
CD21360	60% Design Review - CD Digesters Plant 1 Cluster 1	14	27-Jun-20	10-Jul-20																																																																																																												
CD21370	100% Design Submittal - CD Digesters Plant 1 Cluster 1	49	11-Jul-20	28-Aug-20																																																																																																												
CD11260	Engineering Design - CD Digesters Plant 1 Cluster 1	245	27-Jan-20	27-Sep-20																																																																																																												
CD40390	100% Design Review/Permit Ready Submittal - CD Digesters Plant 1 Cluster 1	30	29-Aug-20	27-Sep-20																																																																																																												
CD80990	EPA Compliance Date for Engineering Design - CD Digesters Plant 1 Cluster 1	0		04-Nov-20*																																																																																																												
Permitting					04-Nov-21, Permitting																																																																																																											
CD82830	EPA Start Date for Permitting - CD Digesters Plant 1 Cluster 1	0	05-Nov-20*																																																																																																													
CD11310	Permitting - CD Digesters Plant 1 Cluster 1	180	28-Sep-20	26-Mar-21																																																																																																												
CD81000	EPA Compliance Date for Permitting - CD Digesters Plant 1 Cluster 1	0		04-Nov-21*																																																																																																												
Procurement					04-Nov-22, Procurement																																																																																																											
CD84050	Internal Bid Package Review - CD Digesters Plant 1 Cluster 1	3	27-Mar-21	29-Mar-21																																																																																																												
CD31680	Design Documents Sent to Procurement - CD Digesters Plant 1 Cluster 1	0	30-Mar-21																																																																																																													
CD31690	Submit/Approve SBD Goals and Request to Advertise - CD Digesters Plant 1 Cluster 1	60	30-Mar-21	28-May-21																																																																																																												
CD31700	Advertise Bid Package - CD Digesters Plant 1 Cluster 1	0	29-May-21																																																																																																													
CD31710	Bid Solicitation Period - CD Digesters Plant 1 Cluster 1	60	29-May-21	27-Jul-21																																																																																																												
CD31720	Bids Due - CD Digesters Plant 1 Cluster 1	0	28-Jul-21																																																																																																													
CD31730	Bid Review Period - CD Digesters Plant 1 Cluster 1	30	28-Jul-21	26-Aug-21																																																																																																												
CD31740	Award Recommendation - CD Digesters Plant 1 Cluster 1	0		26-Aug-21																																																																																																												
CD82840	EPA Start Date for Procurement - CD Digesters Plant 1 Cluster 1	0	05-Nov-21*																																																																																																													
CD11430	Procurement - CD Digesters Plant 1 Cluster 1	270	30-Mar-21	24-Dec-21																																																																																																												
CD31750	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Digesters Plant 1 Cluster 1	120	27-Aug-21	24-Dec-21																																																																																																												
CD81010	EPA Compliance Date for Procurement - CD Digesters Plant 1 Cluster 1	0		04-Nov-22*																																																																																																												
Construction					18-Jun-24, Construction																																																																																																											
CD11538	Contractor Notice to Proceed (NTP) - CD Digesters Plant 1 Cluster 1	0	25-Dec-21																																																																																																													
CD82850	EPA Start Date for Construction - CD Digesters Plant 1 Cluster 1	0	05-Nov-22*																																																																																																													
CD11540	Construction - CD Digesters Plant 1 Cluster 1	592	25-Dec-21	08-Aug-23																																																																																																												
CD11620	Substantial Completion (CD Compliance Date 6/18/24) - CD Digesters Plant 1 Cluster 1	0		08-Aug-23*																																																																																																												
CD40120	Project Closeout - CD Digesters Plant 1 Cluster 1	90	09-Aug-23	06-Nov-23*																																																																																																												
CD81020	EPA Compliance Date for Construction - CD Digesters Plant 1 Cluster 1	0		18-Jun-24*																																																																																																												
Project Administration					06-Nov-23, Project Administration																																																																																																											
CD34070	WASD Project Administration - CD Digesters Plant 1 Cluster 1	1380	27-Jan-20	06-Nov-23																																																																																																												
2.14.2 Cluster 2					27-Jan-20, Pre-Design																																																																																																											
Pre-Design					27-Jan-20, Pre-Design																																																																																																											
CD86150	Respond to EPA re. Project Repurposing - CD Digesters Plant 1 Cluster 2	0	21-May-18 A	27-Jan-20																																																																																																												
CD11322	Pre-Design - CD Digesters Plant 1 Cluster 2	28	31-Dec-19*	27-Jan-20																																																																																																												
Engineering Design					06-Jun-22, Engineering Design																																																																																																											
CD21380	Basis of Design Report (BODR) - CD Digesters Plant 1 Cluster 2	29	28-Jan-20	25-Feb-20																																																																																																												

Activity ID	Activity Name	Original Duration	Start	Finish	2018				2019				2020				2021				2022				2023				2024				2025				2026																																			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4																																
CD21390	30% Design Submittal - CD Digesters Plant 1 Cluster 2	59	26-Feb-20	24-Apr-20									30% Design Submittal - CD Digesters Plant 1 Cluster 2																																																											
CD21400	30% Design Review - CD Digesters Plant 1 Cluster 2	14	25-Apr-20	08-May-20									30% Design Review - CD Digesters Plant 1 Cluster 2																																																											
CD21410	60% Design Submittal - CD Digesters Plant 1 Cluster 2	49	09-May-20	26-Jun-20									60% Design Submittal - CD Digesters Plant 1 Cluster 2																																																											
CD21420	60% Design Review - CD Digesters Plant 1 Cluster 2	14	27-Jun-20	10-Jul-20									60% Design Review - CD Digesters Plant 1 Cluster 2																																																											
CD21430	100% Design Submittal - CD Digesters Plant 1 Cluster 2	80	11-Jul-20	28-Sep-20									100% Design Submittal - CD Digesters Plant 1 Cluster 2																																																											
CD11440	Engineering Design - CD Digesters Plant 1 Cluster 2	275	28-Jan-20	28-Oct-20									Engineering Design - CD Digesters Plant 1 Cluster 2																																																											
CD40400	100% Design Review/Permit Ready Submittal - CD Digesters Plant 1 Cluster 2	30	29-Sep-20	28-Oct-20									100% Design Review/Permit Ready Submittal - CD Digesters Plant 1 Cluster 2																																																											
CD82860	EPA Start Date for Engineering Design - CD Digesters Plant 1 Cluster 2	0	01-Dec-21*														EPA Start Date for Engineering Design - CD Digesters Plant 1 Cluster 2																																																							
CD81030	EPA Compliance Date for Engineering Design - CD Digesters Plant 1 Cluster 2	0	01-Dec-21*	06-Jun-22*																	EPA Compliance Date for Engineering Design - CD Digesters Plant 1 Cluster 2																																																			
Permitting					951	29-Oct-20	06-Jun-23																																																																	
CD11470	Permitting - CD Digesters Plant 1 Cluster 2	180	29-Oct-20	26-Apr-21													Permitting - CD Digesters Plant 1 Cluster 2																																																							
CD82870	EPA Start Date for Permitting - CD Digesters Plant 1 Cluster 2	0	07-Jun-22*														EPA Start Date for Permitting - CD Digesters Plant 1 Cluster 2																																																							
CD81040	EPA Compliance Date for Permitting - CD Digesters Plant 1 Cluster 2	0	01-Dec-21*	06-Jun-23*																	EPA Compliance Date for Permitting - CD Digesters Plant 1 Cluster 2																																																			
Procurement					1136	27-Apr-21	05-Jun-24																																																																	
CD84060	Internal Bid Package Review - CD Digesters Plant 1 Cluster 2	3	27-Apr-21	29-Apr-21													Internal Bid Package Review - CD Digesters Plant 1 Cluster 2																																																							
CD31760	Design Documents Sent to Procurement - CD Digesters Plant 1 Cluster 2	0	30-Apr-21														Design Documents Sent to Procurement - CD Digesters Plant 1 Cluster 2																																																							
CD31770	Submit/Approve SBD Goals and Request to Advertise - CD Digesters Plant 1 Cluster 2	60	30-Apr-21	28-Jun-21													Submit/Approve SBD Goals and Request to Advertise - CD Digesters Plant 1 Cluster 2																																																							
CD31780	Advertise Bid Package - CD Digesters Plant 1 Cluster 2	0	29-Jun-21														Advertise Bid Package - CD Digesters Plant 1 Cluster 2																																																							
CD31790	Bid Solicitation Period - CD Digesters Plant 1 Cluster 2	60	29-Jun-21	27-Aug-21													Bid Solicitation Period - CD Digesters Plant 1 Cluster 2																																																							
CD31800	Bids Due - CD Digesters Plant 1 Cluster 2	0	28-Aug-21														Bids Due - CD Digesters Plant 1 Cluster 2																																																							
CD31810	Bid Review Period - CD Digesters Plant 1 Cluster 2	30	28-Aug-21	26-Sep-21													Bid Review Period - CD Digesters Plant 1 Cluster 2																																																							
CD31820	Award Recommendation - CD Digesters Plant 1 Cluster 2	0		26-Sep-21													Award Recommendation - CD Digesters Plant 1 Cluster 2																																																							
CD11550	Procurement - CD Digesters Plant 1 Cluster 2	270	30-Apr-21	24-Jan-22																	Procurement - CD Digesters Plant 1 Cluster 2																																																			
CD31830	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Digesters Plant 1 Cluster 2	120	27-Sep-21	24-Jan-22													Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Digesters Plant 1 Cluster 2																																																							
CD82880	EPA Start Date for Procurement - CD Digesters Plant 1 Cluster 2	0	07-Jun-23*														EPA Start Date for Procurement - CD Digesters Plant 1 Cluster 2																																																							
CD81050	EPA Compliance Date for Procurement - CD Digesters Plant 1 Cluster 2	0	01-Dec-21*	05-Jun-24*																	EPA Compliance Date for Procurement - CD Digesters Plant 1 Cluster 2																																																			
Construction					3234	14-Mar-17 A	19-Jan-26																																																																	
CD84800	Construction - CD Digesters Plant 1 Covers Demolition	365	14-Mar-17 A	24-Jun-18 A																	Construction - CD Digesters Plant 1 Covers Demolition																																																			
CD11608	Contractor Notice to Proceed (NTP) - CD Digesters Plant 1 Cluster 2	0	25-Jan-22														Contractor Notice to Proceed (NTP) - CD Digesters Plant 1 Cluster 2																																																							
CD11610	Construction - CD Digesters Plant 1 Cluster 2	593	25-Jan-22	09-Sep-23																	Construction - CD Digesters Plant 1 Cluster 2																																																			
CD11680	Substantial Completion (CD Compliance Date 1/19/26) - CD Digesters Plant 1 Cluster 2	0		09-Sep-23*																	Substantial Completion (CD Compliance Date 1/19/26) - CD Digesters Plant 1 Cluster 2																																																			
CD40130	Project Closeout - CD Digesters Plant 1 Cluster 2	90	10-Sep-23	08-Dec-23*																	Project Closeout - CD Digesters Plant 1 Cluster 2																																																			
CD82890	EPA Start Date for Construction - CD Digesters Plant 1 Cluster 2	0	06-Jun-24*														EPA Start Date for Construction - CD Digesters Plant 1 Cluster 2																																																							
CD81060	EPA Compliance Date for Construction - CD Digesters Plant 1 Cluster 2	0	01-Dec-21*	19-Jan-26*																	EPA Compliance Date for Construction - CD Digesters Plant 1 Cluster 2																																																			
Project Administration					1411	28-Jan-20	08-Dec-23																																																																	
CD34080	WASD Project Administration - CD Digesters Plant 1 Cluster 2	1411	28-Jan-20	08-Dec-23													WASD Project Administration - CD Digesters Plant 1 Cluster 2																																																							
2.15 Digesters Plant 2					3295	11-Jun-14 A	18-Jun-23																																																																	
2.15.1 Cluster 1					3295	11-Jun-14 A	18-Jun-23																																																																	
Engineering Design					505	11-Jun-14 A	29-Oct-15 A																																																																	
CD82900	EPA Start Date for Engineering Design - CD Digesters Plant 2 Cluster 1	0	11-Jun-14 A														EPA Start Date for Engineering Design - CD Digesters Plant 2 Cluster 1																																																							
CD21750	30% Design and Final BODR Submittal - CD Digesters Plant 2 Cluster 1	314	11-Jun-14 A	20-Apr-15 A													30% Design and Final BODR Submittal - CD Digesters Plant 2 Cluster 1																																																							
CD21760	30% Design Review - CD Digesters Plant 2 Cluster 1	4	20-Apr-15 A	23-Apr-15 A													30% Design Review - CD Digesters Plant 2 Cluster 1																																																							
CD20130	NTP for Remaining Design - CD Digesters Plant 2 Cluster 1	0	27-Apr-15 A														NTP for Remaining Design - CD Digesters Plant 2 Cluster 1																																																							
CD20170	60% Design Submittal - CD Digesters Plant 2 Cluster 1	114	23-Apr-15 A	14-Aug-15 A													60% Design Submittal - CD Digesters Plant 2 Cluster 1																																																							
CD20180	60% Design Review - CD Digesters Plant 2 Cluster 1	13	14-Aug-15 A	26-Aug-15 A													60% Design Review - CD Digesters Plant 2 Cluster 1																																																							
CD20190	100% Design Submittal - CD Digesters Plant 2 Cluster 1	34	27-Aug-15 A	29-Sep-15 A													100% Design Submittal - CD Digesters Plant 2 Cluster 1																																																							
CD10030	Engineering Design - CD Digesters Plant 2 Cluster 1	475	11-Jun-14 A	29-Sep-15 A													Engineering Design - CD Digesters Plant 2 Cluster 1																																																							
CD81070	EPA Compliance Date for Engineering Design - CD Digesters Plant 2 Cluster 1	0	01-Dec-21*	29-Oct-15 A													EPA Compliance Date for Engineering Design - CD Digesters Plant 2 Cluster 1																																																							
Permitting					329	30-Sep-15 A	24-Aug-16 A																																																																	
CD82910	EPA Start Date for Permitting - CD Digesters Plant 2 Cluster 1**	0	30-Sep-15 A														EPA Start Date for Permitting - CD Digesters Plant 2 Cluster 1**																																																							
CD80100	FDEP Permit - CD Digesters Plant 2 Cluster 1	169	30-Sep-15 A	16-Mar-16 A													FDEP Permit - CD Digesters Plant 2 Cluster 1																																																							
CD81080	EPA Compliance Date for Permitting - CD Digesters Plant 2 Cluster 1**	0	01-Dec-21*	27-Mar-16 A													EPA Compliance Date for Permitting - CD Digesters Plant 2 Cluster 1**																																																							
CD10110	Permitting - CD Digesters Plant 2 Cluster 1	330	30-Sep-15 A	24-Aug-16 A													Permitting - CD Digesters Plant 2 Cluster 1																																																							
CD80110	City of Miami Building Permit - CD Digesters Plant 2 Cluster 1	234	04-Jan-16 A	24-Aug-16 A													City of Miami Building Permit - CD Digesters Plant 2 Cluster 1																																																							
Procurement					870	14-Aug-14 A	31-Dec-16 A																																																																	
CD12171	Owner Pre-Purchase Digester Cover (1) - CD Digesters Plant 2 Cluster 1	222	14-Aug-14 A	23-Mar-15 A													Owner Pre-Purchase Digester Cover (1) - CD Digesters Plant 2 Cluster 1																																																							
CD82920	EPA Start Date for Procurement - CD Digesters Plant 2 Cluster 1	0	28-Mar-16 A														EPA Start Date for Procurement - CD Digesters Plant 2 Cluster 1																																																							
CD30610	Design Documents Sent to Procurement - CD Digesters Plant 2 Cluster 1	0	27-Apr-16 A														Design Documents Sent to Procurement - CD Digesters Plant 2 Cluster 1																																																							
CD30620	Submit/Approve SBD Goals and Request to Advertise - CD Digesters Plant 2 Cluster 1	72	27-Apr-16 A	07-Jul-16 A													Submit/Approve SBD Goals and Request to Advertise - CD Digesters Plant 2 Cluster 1																																																							
CD30630	Advertise Bid Package - CD Digesters Plant 2 Cluster 1	0	08-Jul-16 A														Advertise Bid Package - CD Digesters Plant 2 Cluster 1																																																							
CD30640	Bid Solicitation Period - CD Digesters Plant 2 Cluster 1	46	08-Jul-16 A	22-Aug-16 A													Bid Solicitation Period - CD Digesters Plant 2 Cluster 1																																																							
CD30650	Bids Due - CD Digesters Plant 2 Cluster 1	0	23-Aug-16 A														Bids Due - CD Digesters Plant 2 Cluster 1																																																							
CD30660	Bid Review Period - CD Digesters Plant 2 Cluster 1	58	23-Aug-16 A	19-Oct-16 A													Bid Review Period - CD Digesters Plant 2 Cluster 1																																																							

Table with columns for Activity ID, Activity Name, Original Duration, Start, Finish, and quarterly breakdowns for years 2018 through 2026. The table lists various project activities such as 'Substantial Completion', 'Project Closeout', 'EPA Compliance Date for Construction', 'Pre-Design', 'Engineering Design', 'Permitting', and 'Procurement' across multiple clusters (Cluster 1, Cluster 2, Cluster 3).

Activity ID	Activity Name	Original Duration	Start	Finish	Timeline (2018-2026)																			
					2018	2019	2020	2021	2022	2023	2024	2025	2026											
CD83090	EPA Start Date for Construction - CD Dewatering Building	0	02-Aug-19 A		◆ EPA Start Date for Construction - CD Dewatering Building																			
CD33650	Design-Builder NTP - CD Dewatering Building	0	19-May-20		◆ Design-Builder NTP - CD Dewatering Building																			
CD32790	Final Engineering by Design-Builder - CD Dewatering Building	300	19-May-20	14-Mar-21	Final Engineering by Design-Builder - CD Dewatering Building																			
CD32800	AHJ Permit Review - CD Dewatering Building	180	15-Nov-20	13-May-21	AHJ Permit Review - CD Dewatering Building																			
CD84780	Design-Builder Contract Duration - CD Dewatering Building	966	19-May-20	09-Jan-23	Design-Builder Contract Duration - CD Dewatering Building																			
CD10670	Construction - CD Dewatering Building	786	15-Nov-20	09-Jan-23	Construction - CD Dewatering Building																			
CD86340	Commissioning - CD Dewatering Building	30	11-Dec-22	09-Jan-23	Commissioning - CD Dewatering Building																			
CD11080	Substantial Completion (CD Compliance Date 1/13/23) - CD Dewatering Building	0		09-Jan-23*	◆ Substantial Completion (CD Compliance Date 1/13/23) - CD Dewatering Building																			
CD81420	EPA Compliance Date for Construction - CD Dewatering Building	0		13-Jan-23*	◆ EPA Compliance Date for Construction - CD Dewatering Building																			
CD40180	Project Closeout - CD Dewatering Building	120	10-Jan-23	09-May-23*	Project Closeout - CD Dewatering Building																			
Project Administration		2086	30-Apr-15 A	09-May-23	WASD Project Administration - CD Dewatering Building																			
CD34130	WASD Project Administration - CD Dewatering Building	2086	30-Apr-15 A	09-May-23	WASD Project Administration - CD Dewatering Building																			
2.17 Chlorination Facilities					28-Feb-20, 2.17 Chlorination Facilities																			
Engineering Design					Engineering Design																			
CD83100	EPA Start Date for Engineering Design - CD Chlorination Facilities**	0	01-Oct-13 A		EPA Start Date for Engineering Design - CD Chlorination Facilities**																			
CD81430	EPA Compliance Date for Engineering Design - CD Chlorination Facilities**	0		07-Sep-14 A	EPA Compliance Date for Engineering Design - CD Chlorination Facilities**																			
CD20410	Evaluation of Design Alternatives - CD Chlorination Facilities	344	01-Oct-13 A	09-Sep-14 A	Evaluation of Design Alternatives - CD Chlorination Facilities																			
CD20420	Basis of Design Report (BODR) - CD Chlorination Facilities	91	18-Feb-15 A	19-May-15 A	Basis of Design Report (BODR) - CD Chlorination Facilities																			
CD20430	BODR Review Period - CD Chlorination Facilities	16	28-May-15 A	12-Jun-15 A	BODR Review Period - CD Chlorination Facilities																			
CD20435	Negotiate Scope and Cost with MWH - CD Chlorination Facilities	88	23-Mar-15 A	18-Jun-15 A	Negotiate Scope and Cost with MWH - CD Chlorination Facilities																			
CD20440	60% Design Submittal - CD Chlorination Facilities	78	18-Jun-15 A	03-Sep-15 A	60% Design Submittal - CD Chlorination Facilities																			
CD20450	60% Design Review - CD Chlorination Facilities	7	04-Sep-15 A	10-Sep-15 A	60% Design Review - CD Chlorination Facilities																			
CD20480	100% Design Submittal - CD Chlorination Facilities	43	11-Sep-15 A	23-Oct-15 A	100% Design Submittal - CD Chlorination Facilities																			
CD10060	Engineering Design - CD Chlorination Facilities	777	01-Oct-13 A	16-Nov-15 A	Engineering Design - CD Chlorination Facilities																			
CD40480	100% Design Review/Permit Ready Submittal - CD Chlorination Facilities	17	31-Oct-15 A	16-Nov-15 A	100% Design Review/Permit Ready Submittal - CD Chlorination Facilities																			
CD32610	Develop Equipment Pre-Purchase RTU Packages - CD Chlorination Facilities	212	18-Jun-15 A	15-Jan-16 A	Develop Equipment Pre-Purchase RTU Packages - CD Chlorination Facilities																			
Permitting					Permitting																			
CD83110	EPA Start Date for Permitting - CD Chlorination Facilities	0	08-Sep-14 A		EPA Start Date for Permitting - CD Chlorination Facilities																			
CD10250	Permitting - CD Chlorination Facilities	221	20-Nov-15 A	27-Jun-16 A	Permitting - CD Chlorination Facilities																			
CD80050	City of Miami Building Permit - CD Chlorination Facilities	221	20-Nov-15 A	27-Jun-16 A	City of Miami Building Permit - CD Chlorination Facilities																			
CD81440	EPA Compliance Date for Permitting - CD Chlorination Facilities	0		30-Jul-16 A	EPA Compliance Date for Permitting - CD Chlorination Facilities																			
Procurement					Procurement																			
CD32160	Design Documents Sent to Procurement - CD Chlorination Facilities	0	16-Nov-15 A		Design Documents Sent to Procurement - CD Chlorination Facilities																			
CD32170	Submit/Approve SBD Goals and Request to Advertise - CD Chlorination Facilities	42	16-Nov-15 A	27-Dec-15 A	Submit/Approve SBD Goals and Request to Advertise - CD Chlorination Facilities																			
CD32180	Advertise Bid Package - CD Chlorination Facilities	0	28-Dec-15 A		Advertise Bid Package - CD Chlorination Facilities																			
CD32190	Bid Solicitation Period - CD Chlorination Facilities	42	28-Dec-15 A	07-Feb-16 A	Bid Solicitation Period - CD Chlorination Facilities																			
CD32200	Bids Due - CD Chlorination Facilities	0	08-Feb-16 A		Bids Due - CD Chlorination Facilities																			
CD83120	EPA Start Date for Procurement - CD Chlorination Facilities	0	08-Feb-16 A		EPA Start Date for Procurement - CD Chlorination Facilities																			
CD32210	Bid Review Period - CD Chlorination Facilities	14	08-Feb-16 A	21-Feb-16 A	Bid Review Period - CD Chlorination Facilities																			
CD32220	Award Recommendation - CD Chlorination Facilities	0		22-Feb-16 A	Award Recommendation - CD Chlorination Facilities																			
CD10260	Procurement - CD Chlorination Facilities	135	16-Nov-15 A	29-Mar-16 A	Procurement - CD Chlorination Facilities																			
CD32230	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Chlorination Facilities	37	22-Feb-16 A	29-Mar-16 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Chlorination Facilities																			
CD81450	EPA Compliance Date for Procurement - CD Chlorination Facilities	0		06-Sep-16 A	EPA Compliance Date for Procurement - CD Chlorination Facilities																			
CD33070	Pre-Purchase Bid Package (RTU) - CD Chlorination Facilities	250	16-Jan-16 A	21-Sep-16 A	Pre-Purchase Bid Package (RTU) - CD Chlorination Facilities																			
CD33100	Vendor NTP (RTU) - CD Chlorination Facilities	0		21-Sep-16 A	Vendor NTP (RTU) - CD Chlorination Facilities																			
CD32600	Owner Pre-Purchase RTU - CD Chlorination Facilities	522	16-Jan-16 A	20-Jun-17 A	Owner Pre-Purchase RTU - CD Chlorination Facilities																			
CD33110	Fabricate & Deliver Pre-Purchase RTUs - CD Chlorination Facilities	273	21-Sep-16 A	20-Jun-17 A	Fabricate & Deliver Pre-Purchase RTUs - CD Chlorination Facilities																			
Construction					28-Feb-20, Construction																			
CD10498	Contractor Notice to Proceed (NTP) - CD Chlorination Facilities	0	18-Apr-16 A		Contractor Notice to Proceed (NTP) - CD Chlorination Facilities																			
CD83130	EPA Start Date for Construction - CD Chlorination Facilities	0	07-Sep-16 A		EPA Start Date for Construction - CD Chlorination Facilities																			
CD10500	Construction - CD Chlorination Facilities	580	18-Apr-16 A	27-Jul-18 A	Construction - CD Chlorination Facilities																			
CD86350	Commissioning - CD Chlorination Facilities	30	26-Jun-18 A	27-Jul-18 A	Commissioning - CD Chlorination Facilities																			
CD10700	Substantial Completion (CD Compliance Date 10/15/18) - CD Chlorination Facilities	0		27-Jul-18 A	◆ Substantial Completion (CD Compliance Date 10/15/18) - CD Chlorination Facilities																			
CD81460	EPA Compliance Date for Construction - CD Chlorination Facilities	0		15-Oct-18 A	◆ EPA Compliance Date for Construction - CD Chlorination Facilities																			
CD40190	Project Closeout - CD Chlorination Facilities	15	11-Aug-18 A	28-Feb-20*	Project Closeout - CD Chlorination Facilities																			
Project Administration		1600	01-Oct-13 A	28-Feb-20	WASD Project Administration - CD Chlorination Facilities																			
CD34140	WASD Project Administration - CD Chlorination Facilities	1600	01-Oct-13 A	28-Feb-20	WASD Project Administration - CD Chlorination Facilities																			
2.18 Odor Control Systems					09-May-23, 2.18 Odor Control Systems																			
Engineering Design					Engineering Design																			
CD10280	Engineering Design - CD Odor Control Systems	985	06-Oct-14 A	17-Jun-17 A	Engineering Design - CD Odor Control Systems																			
CD83140	EPA Start Date for Engineering Design - CD Odor Control Systems	0	01-Oct-16 A		EPA Start Date for Engineering Design - CD Odor Control Systems																			
CD81470	EPA Compliance Date for Engineering Design - CD Odor Control Systems	0		17-Jun-17 A	EPA Compliance Date for Engineering Design - CD Odor Control Systems																			
Permitting					Permitting																			
CD10410	Permitting (Summary) - CD Odor Control Systems	190	29-Jan-16 A	05-Aug-16 A	Permitting (Summary) - CD Odor Control Systems																			
CD83150	EPA Start Date for Permitting - CD Odor Control Systems	0	18-Jun-17 A		EPA Start Date for Permitting - CD Odor Control Systems																			
CD81480	EPA Compliance Date for Permitting - CD Odor Control Systems	0		17-Jun-18 A	EPA Compliance Date for Permitting - CD Odor Control Systems																			
Procurement					Procurement																			
CD83160	EPA Start Date for Procurement - CD Odor Control Systems	0	18-Jun-18 A		EPA Start Date for Procurement - CD Odor Control Systems																			
CD81490	EPA Compliance Date for Procurement - CD Odor Control Systems - CD Odor Control Systems	0		17-Jun-19 A	EPA Compliance Date for Procurement - CD Odor Control Systems - CD Odor Control Systems																			
CD10650	Procurement (Summary) - CD Odor Control Systems - CD Odor Control Systems	701	07-Mar-16 A	18-May-20	Procurement (Summary) - CD Odor Control Systems - CD Odor Control Systems																			
Construction					13-Jan-23, Construction																			
CD83170	EPA Start Date for Construction - CD Odor Control Systems	0	18-Jun-19 A		EPA Start Date for Construction - CD Odor Control Systems																			
CD10890	Construction (Summary) - CD Odor Control Systems	1508	30-Aug-16 A	09-Jan-23	Construction (Summary) - CD Odor Control Systems																			
CD11070	Substantial Completion (CD Compliance Date 1/13/23) - CD Odor Control Systems	0		09-Jan-23*	◆ Substantial Completion (CD Compliance Date 1/13/23) - CD Odor Control Systems																			

Activity ID	Activity Name	Original Duration	Start	Finish	2018-2026 Quarterly Grid																											
					2018 Q1-Q4	2019 Q1-Q4	2020 Q1-Q4	2021 Q1-Q4	2022 Q1-Q4	2023 Q1-Q4	2024 Q1-Q4	2025 Q1-Q4	2026 Q1-Q2																			
CD81500	EPA Compliance Date for Construction - CD Odor Control Systems	0	06-Oct-14 A	13-Jan-23*	[Gantt Bar]																											
2.18 (1) Headworks Odor Controls System (Project 2.03/2.04)		1315	06-Oct-14 A	31-Jan-20	[Gantt Bar]																											
Engineering Design		479	06-Oct-14 A	28-Jan-16 A	[Gantt Bar]																											
CD21270	Engineering Design (Headworks) - CD Odor Control Systems	480	06-Oct-14 A	28-Jan-16 A	[Gantt Bar]																											
Permitting		189	29-Jan-16 A	05-Aug-16 A	[Gantt Bar]																											
CD40410	Permitting (Headworks) - CD Odor Control Systems	190	29-Jan-16 A	05-Aug-16 A	[Gantt Bar]																											
Procurement		175	07-Mar-16 A	29-Aug-16 A	[Gantt Bar]																											
CD32250	Procurement (Headworks) - CD Odor Control Systems	176	07-Mar-16 A	29-Aug-16 A	[Gantt Bar]																											
Construction		560	30-Aug-16 A	31-Jan-20	[Gantt Bar]																											
CD40430	Construction (Headworks) - CD Odor Control Systems	560	30-Aug-16 A	31-Jan-20*	[Gantt Bar]																											
Project Administration		621	06-Oct-14 A	31-Jan-20	[Gantt Bar]																											
CD85200	WASD Project Administration - CD Odor Control Systems	621	06-Oct-14 A	31-Jan-20	[Gantt Bar]																											
2.18 (2) Dewatering Odor Control System (Project 2.16)		2931	01-May-15 A	09-May-23	[Gantt Bar]																											
Engineering Design		333	01-May-15 A	29-Mar-16 A	[Gantt Bar]																											
CD21290	Engineering Design (Dewatering) - CD Odor Control Systems	334	01-May-15 A	29-Mar-16 A	[Gantt Bar]																											
Procurement		679	29-Mar-16 A	18-May-20	[Gantt Bar]																											
CD32270	Procurement (Dewatering) - CD Odor Control Systems	679	29-Mar-16 A	18-May-20	[Gantt Bar]																											
Construction		1086	19-May-20	09-May-23	[Gantt Bar]																											
CD85980	Final Engineering by Design-Builder - CD Odor Control Systems	300	19-May-20	14-Mar-21	[Gantt Bar]																											
CD85990	AHJ Permit Review - CD Odor Control Systems	180	15-Nov-20	13-May-21	[Gantt Bar]																											
CD40440	Design-Builder Contract Duration (Dewatering) - CD Odor Control Systems	966	19-May-20	09-Jan-23	[Gantt Bar]																											
CD86000	Construction - CD Odor Control Systems	786	15-Nov-20	09-Jan-23	[Gantt Bar]																											
CD40200	Project Closeout - CD Odor Control Systems	120	10-Jan-23	09-May-23*	[Gantt Bar]																											
Project Administration		818	01-May-15 A	09-May-23	[Gantt Bar]																											
CD85210	WASD Project Administration - CD Odor Control Systems	818	01-May-15 A	09-May-23	[Gantt Bar]																											
2.19 Co-Gen Improvements		2969	22-Nov-12 A	07-Jan-21	[Gantt Bar]																											
Engineering Design		1453	22-Nov-12 A	14-Nov-16 A	[Gantt Bar]																											
CD83180	EPA Start Date for Engineering Design - CD Co-Gen Improvements	0	01-May-14 A	31-Oct-16 A	[Gantt Bar]																											
CD10140	Engineering Design - CD Co-Gen Improvements	1440	22-Nov-12 A	14-Nov-16 A	[Gantt Bar]																											
CD81510	EPA Compliance Date for Engineering Design - CD Co-Gen Improvements	0	01-May-14 A	14-Nov-16 A	[Gantt Bar]																											
Permitting		1663	12-Mar-13 A	29-Sep-17 A	[Gantt Bar]																											
CD83190	EPA Start Date for Permitting - CD Co-Gen Improvements	0	18-Aug-15 A	29-Sep-17 A	[Gantt Bar]																											
CD10470	Permitting - CD Co-Gen Improvements	1607	12-Mar-13 A	04-Aug-17 A	[Gantt Bar]																											
CD81520	EPA Compliance Date for Permitting - CD Co-Gen Improvements	0	18-Aug-15 A	29-Sep-17 A	[Gantt Bar]																											
Procurement		1480	12-Mar-14 A	29-Nov-18 A	[Gantt Bar]																											
CD83200	EPA Start Date for Procurement - CD Co-Gen Improvements	0	17-Aug-16 A	29-Nov-18 A	[Gantt Bar]																											
CD81530	EPA Compliance Date for Procurement - CD Co-Gen Improvements	0	17-Aug-16 A	29-Nov-18 A	[Gantt Bar]																											
CD10480	Procurement - CD Co-Gen Improvements	1426	12-Mar-14 A	29-Nov-18 A	[Gantt Bar]																											
Construction		2324	30-Jul-14 A	08-Dec-20	[Gantt Bar]																											
CD83210	EPA Start Date for Construction - CD Co-Gen Improvements	0	31-Aug-17 A	08-Dec-20	[Gantt Bar]																											
CD81540	EPA Compliance Date for Construction - CD Co-Gen Improvements	0	31-Aug-17 A	08-Dec-20	[Gantt Bar]																											
CD10680	Construction - CD Co-Gen Improvements	1746	30-Jul-14 A	08-Dec-20	[Gantt Bar]																											
CD11030	Substantial Completion (CD Compliance Date 5/21/20) - CD Co-Gen Improvements	0	30-Jul-14 A	08-Dec-20*	[Gantt Bar]																											
2.19 (1) Co-Gen Generator Replacement		1161	22-Nov-12 A	27-Jan-16 A	[Gantt Bar]																											
Engineering Design		473	22-Nov-12 A	10-Mar-14 A	[Gantt Bar]																											
CD12001	Engineering Design - CD Co-Gen Generator Replacement	474	22-Nov-12 A	10-Mar-14 A	[Gantt Bar]																											
Permitting		365	12-Mar-13 A	11-Mar-14 A	[Gantt Bar]																											
CD12011	Permitting - CD Co-Gen Generator Replacement	365	12-Mar-13 A	11-Mar-14 A	[Gantt Bar]																											
Procurement		140	12-Mar-14 A	30-Jul-14 A	[Gantt Bar]																											
CD12021	Procurement - CD Co-Gen Generator Replacement	141	12-Mar-14 A	30-Jul-14 A	[Gantt Bar]																											
Construction		546	30-Jul-14 A	27-Jan-16 A	[Gantt Bar]																											
CD12031	Construction - CD Co-Gen Generator Replacement	547	30-Jul-14 A	27-Jan-16 A	[Gantt Bar]																											
CD12041	2.19 (1) Substantial Completion (CD Compliance Date 5/21/20) - CD Co-Gen Generator Replacement	0	30-Jul-14 A	27-Jan-16 A	[Gantt Bar]																											
Project Administration		1161	22-Nov-12 A	27-Jan-16 A	[Gantt Bar]																											
CD34160	WASD Project Administration - CD Co-Gen Generator Replacement	1162	22-Nov-12 A	27-Jan-16 A	[Gantt Bar]																											
2.19 (2)a Co-Gen Biogas Treatment Facilities		2212	19-Dec-14 A	07-Jan-21	[Gantt Bar]																											
Pre-Design		357	19-Dec-14 A	11-Dec-15 A	[Gantt Bar]																											
CD12231	Pre-Design - CD Co-Gen Biogas Treatment Facilities	167	19-Dec-14 A	03-Jun-15 A	[Gantt Bar]																											
CD30320	Negotiate Final Design - CD Co-Gen Biogas Treatment Facilities	78	25-Sep-15 A	11-Dec-15 A	[Gantt Bar]																											
Engineering Design		456	04-Jun-15 A	02-Sep-16 A	[Gantt Bar]																											
CD21650	Alternatives Analysis Report - CD Co-Gen Biogas Treatment Facilities	119	04-Jun-15 A	30-Sep-15 A	[Gantt Bar]																											
CD33680	Remaining Basis of Design Report (BODR) - CD Co-Gen Biogas Treatment Facilities	70	17-Dec-15 A	24-Feb-16 A	[Gantt Bar]																											
CD21660	BODR Review Period - CD Co-Gen Biogas Treatment Facilities	7	25-Feb-16 A	02-Mar-16 A	[Gantt Bar]																											
CD21690	60% Design Submittal - CD Co-Gen Biogas Treatment Facilities	47	14-Mar-16 A	29-Apr-16 A	[Gantt Bar]																											
CD21700	60% Design Review - CD Co-Gen Biogas Treatment Facilities	7	30-Apr-16 A	06-May-16 A	[Gantt Bar]																											
CD21710	100% Design Submittal - CD Co-Gen Biogas Treatment Facilities	102	07-May-16 A	16-Aug-16 A	[Gantt Bar]																											
CD12101	Engineering Design - CD Co-Gen Biogas Treatment Facilities	457	04-Jun-15 A	02-Sep-16 A	[Gantt Bar]																											
CD40490	100% Design Review/Permit Ready Submittal - CD Co-Gen Biogas Treatment Facilities	17	17-Aug-16 A	02-Sep-16 A	[Gantt Bar]																											
Permitting		408	10-May-16 A	22-Jun-17 A	[Gantt Bar]																											
CD80250	FDEP Permit - CD Co-Gen Biogas Treatment Facilities	44	10-May-16 A	22-Jun-16 A	[Gantt Bar]																											
CD71060	DERM Permit - CD Co-Gen Biogas Treatment Facilities	10	06-Sep-16 A	15-Sep-16 A	[Gantt Bar]																											
CD83520	ERP Permit - CD Co-Gen Biogas Treatment Facilities	68	08-Sep-16 A	14-Nov-16 A	[Gantt Bar]																											
CD83510	DERM Class VI Permit - CD Co-Gen Biogas Treatment Facilities	56	18-Oct-16 A	12-Dec-16 A	[Gantt Bar]																											
CD12111	Permitting - CD Co-Gen Biogas Treatment Facilities	409	10-May-16 A	22-Jun-17 A	[Gantt Bar]																											

Activity ID	Activity Name	Original Duration	Start	Finish	2018		2019				2020				2021				2022				2023				2024				2025		2026	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
CD82320	City of Miami Permit - CD Co-Gen Biogas Treatment Facilities	270	26-Sep-16 A	22-Jun-17 A	City of Miami Permit - CD Co-Gen Biogas Treatment Facilities																													
Procurement					Procurement - CD Co-Gen Biogas Treatment Facilities																													
CD30690	Design Documents Sent to Procurement - CD Co-Gen Biogas Treatment Facilities	0	16-Sep-16 A	06-Jul-17 A	Design Documents Sent to Procurement - CD Co-Gen Biogas Treatment Facilities																													
CD30700	Submit/Approve SBD Goals and Request to Advertise - CD Co-Gen Biogas Treatment Facilities	62	16-Sep-16 A	16-Nov-16 A	Submit/Approve SBD Goals and Request to Advertise - CD Co-Gen Biogas Treatment Facilities																													
CD30710	Advertise Bid Package - CD Co-Gen Biogas Treatment Facilities	0	17-Nov-16 A		Advertise Bid Package - CD Co-Gen Biogas Treatment Facilities																													
CD30720	Bid Solicitation Period - CD Co-Gen Biogas Treatment Facilities	91	17-Nov-16 A	15-Feb-17 A	Bid Solicitation Period - CD Co-Gen Biogas Treatment Facilities																													
CD30730	Bids Due - CD Co-Gen Biogas Treatment Facilities	0	16-Feb-17 A		Bids Due - CD Co-Gen Biogas Treatment Facilities																													
CD30740	Bid Review Period - CD Co-Gen Biogas Treatment Facilities	19	16-Feb-17 A	06-Mar-17 A	Bid Review Period - CD Co-Gen Biogas Treatment Facilities																													
CD30750	Award Recommendation - CD Co-Gen Biogas Treatment Facilities	0		06-Mar-17 A	Award Recommendation - CD Co-Gen Biogas Treatment Facilities																													
CD84830	Updated Award Recommendation - CD Co-Gen Biogas Treatment Facilities	0		29-Jun-17 A	Updated Award Recommendation - CD Co-Gen Biogas Treatment Facilities																													
CD12121	Procurement - CD Co-Gen Biogas Treatment Facilities	294	16-Sep-16 A	06-Jul-17 A	Procurement - CD Co-Gen Biogas Treatment Facilities																													
CD30760	Final Approvals - CD Co-Gen Biogas Treatment Facilities	122	07-Mar-17 A	06-Jul-17 A	Final Approvals - CD Co-Gen Biogas Treatment Facilities																													
Construction					Construction - CD Co-Gen Biogas Treatment Facilities																													
CD12130	Contractor Notice to Proceed (NTP) - CD Co-Gen Biogas Treatment Facilities	0	20-Jul-17 A		Contractor Notice to Proceed (NTP) - CD Co-Gen Biogas Treatment Facilities																													
CD83530	Complete Switchgear Building Commissioning (Milestone #1) - CD Co-Gen Biogas Treatment Facilities	0		26-Mar-19 A	Complete Switchgear Building Commissioning (Milestone #1) - CD Co-Gen Biogas Treatment Facilities																													
CD12131	Construction - CD Co-Gen Biogas Treatment Facilities	660	20-Jul-17 A	04-Oct-19 A	Construction - CD Co-Gen Biogas Treatment Facilities																													
CD86360	Commissioning - CD Co-Gen Biogas Treatment Facilities	55	26-May-19 A	08-Dec-20	Commissioning - CD Co-Gen Biogas Treatment Facilities																													
CD12141	2.19 (2a) Substantial Completion (CD Compliance Date 5/21/20) - CD Co-Gen Biogas Treatment Facilities	0		08-Dec-20*	2.19 (2a) Substantial Completion (CD Compliance Date 5/21/20) - CD Co-Gen Biogas Treatment Facilities																													
CD40210	Project Closeout - CD Co-Gen Biogas Treatment Facilities	30	09-Dec-20	07-Jan-21*	Project Closeout - CD Co-Gen Biogas Treatment Facilities																													
Project Administration					Project Administration - CD Co-Gen Biogas Treatment Facilities																													
CD34170	WASD Project Administration - CD Co-Gen Biogas Treatment Facilities	1527	04-Jun-15 A	07-Jan-21	WASD Project Administration - CD Co-Gen Biogas Treatment Facilities																													
2.19 (2)b Co-Gen Restroom and Building Rehab					2.19 (2)b Co-Gen Restroom and Building Rehab																													
Engineering Design					Engineering Design - CD Co-Gen Restroom and Building Rehab																													
CD70980	Draft Basis of Design Report (BODR) - CD Co-Gen Restroom and Building Rehab	28	14-Apr-16 A	11-May-16 A	Draft Basis of Design Report (BODR) - CD Co-Gen Restroom and Building Rehab																													
CD70990	BODR Review Period - CD Co-Gen Restroom and Building Rehab	14	12-May-16 A	25-May-16 A	BODR Review Period - CD Co-Gen Restroom and Building Rehab																													
CD71040	Final BODR - CD Co-Gen Restroom and Building Rehab	14	26-May-16 A	08-Jun-16 A	Final BODR - CD Co-Gen Restroom and Building Rehab																													
CD71000	60% Design Submittal - CD Co-Gen Restroom and Building Rehab	59	09-Jun-16 A	06-Aug-16 A	60% Design Submittal - CD Co-Gen Restroom and Building Rehab																													
CD71010	60% Design Review - CD Co-Gen Restroom and Building Rehab	14	07-Aug-16 A	20-Aug-16 A	60% Design Review - CD Co-Gen Restroom and Building Rehab																													
CD71020	100% Design Submittal - CD Co-Gen Restroom and Building Rehab	26	21-Aug-16 A	15-Sep-16 A	100% Design Submittal - CD Co-Gen Restroom and Building Rehab																													
CD82110	Engineering Design - CD Co-Gen Restroom and Building Rehab	201	14-Apr-16 A	31-Oct-16 A	Engineering Design - CD Co-Gen Restroom and Building Rehab																													
CD71030	100% Design Review/Permit Ready Submittal - CD Co-Gen Restroom and Building Rehab	46	16-Sep-16 A	31-Oct-16 A	100% Design Review/Permit Ready Submittal - CD Co-Gen Restroom and Building Rehab																													
Permitting					Permitting - CD Co-Gen Restroom and Building Rehab																													
CD71050	RER Permit - CD Co-Gen Restroom and Building Rehab	52	01-Nov-16 A	22-Dec-16 A	RER Permit - CD Co-Gen Restroom and Building Rehab																													
CD82100	Permitting - CD Co-Gen Restroom and Building Rehab	277	01-Nov-16 A	04-Aug-17 A	Permitting - CD Co-Gen Restroom and Building Rehab																													
CD81960	City of Miami Permit - CD Co-Gen Restroom and Building Rehab	213	04-Jan-17 A	04-Aug-17 A	City of Miami Permit - CD Co-Gen Restroom and Building Rehab																													
Procurement					Procurement - CD Co-Gen Restroom and Building Rehab																													
CD84160	GMOU submittal and approval - CD Co-Gen Restroom and Building Rehab	20	03-Feb-17 A	22-Feb-17 A	GMOU submittal and approval - CD Co-Gen Restroom and Building Rehab																													
CD84100	Internal Bid Package Review - CD Co-Gen Restroom and Building Rehab	13	05-Aug-17 A	17-Aug-17 A	Internal Bid Package Review - CD Co-Gen Restroom and Building Rehab																													
CD81970	Design Documents Sent to Procurement - CD Co-Gen Restroom and Building Rehab	0	18-Aug-17 A		Design Documents Sent to Procurement - CD Co-Gen Restroom and Building Rehab																													
CD82330	SBD Goals / OCI Reviews and Provides List - CD Co-Gen Restroom and Building Rehab	39	18-Aug-17 A	25-Sep-17 A	SBD Goals / OCI Reviews and Provides List - CD Co-Gen Restroom and Building Rehab																													
CD81990	Advertise Bid Package - CD Co-Gen Restroom and Building Rehab	0	26-Sep-17 A		Advertise Bid Package - CD Co-Gen Restroom and Building Rehab																													
CD82000	Bid Solicitation Period - CD Co-Gen Restroom and Building Rehab	42	26-Sep-17 A	18-Jan-18 A	Bid Solicitation Period - CD Co-Gen Restroom and Building Rehab																													
CD82010	Bids Due - CD Co-Gen Restroom and Building Rehab	0	19-Jan-18 A		Bids Due - CD Co-Gen Restroom and Building Rehab																													
CD82020	Bid Review Period - CD Co-Gen Restroom and Building Rehab	32	19-Jan-18 A	14-Feb-18 A	Bid Review Period - CD Co-Gen Restroom and Building Rehab																													
CD85500	Bids Cancelled - CD Co-Gen Restroom and Building Rehab	0		14-Feb-18 A	Bids Cancelled - CD Co-Gen Restroom and Building Rehab																													
CD85510	Bid Documents Revised (for Bid#2) - CD Co-Gen Restroom and Building Rehab	20	15-Feb-18 A	22-Feb-18 A	Bid Documents Revised (for Bid#2) - CD Co-Gen Restroom and Building Rehab																													
CD85520	Design Documents Sent to Procurement (for Bid#2) - CD Co-Gen Restroom and Building Rehab	0	22-Feb-18 A		Design Documents Sent to Procurement (for Bid#2) - CD Co-Gen Restroom and Building Rehab																													
CD85530	SBD Goals / OCI Reviews and Provides List (for Bid#2) - CD Co-Gen Restroom and Building Rehab	20	23-Feb-18 A	25-Feb-18 A	SBD Goals / OCI Reviews and Provides List (for Bid#2) - CD Co-Gen Restroom and Building Rehab																													
CD85540	Advertise Bid Package (for Bid#2) - CD Co-Gen Restroom and Building Rehab	0	26-Feb-18 A		Advertise Bid Package (for Bid#2) - CD Co-Gen Restroom and Building Rehab																													
CD85550	Bid Solicitation Period (for Bid#2) - CD Co-Gen Restroom and Building Rehab	45	26-Feb-18 A	05-Apr-18 A	Bid Solicitation Period (for Bid#2) - CD Co-Gen Restroom and Building Rehab																													
CD85560	Bid Due (for Bid#2) - CD Co-Gen Restroom and Building Rehab	0	06-Apr-18 A		Bid Due (for Bid#2) - CD Co-Gen Restroom and Building Rehab																													
CD85570	Bid Review Period (for Bid#2) - CD Co-Gen Restroom and Building Rehab	30	06-Apr-18 A	08-May-18 A	Bid Review Period (for Bid#2) - CD Co-Gen Restroom and Building Rehab																													
CD82030	Bids Rejected (for Bid#2) - CD Co-Gen Restroom and Building Rehab	0		08-May-18 A	Bids Rejected (for Bid#2) - CD Co-Gen Restroom and Building Rehab																													
CD86010	Bid Documents Revised (for Bid#3) - CD Co-Gen Restroom and Building Rehab	7	08-May-18 A	07-Jun-18 A	Bid Documents Revised (for Bid#3) - CD Co-Gen Restroom and Building Rehab																													
CD86020	Design Documents Sent to Procurement (for Bid#3) - CD Co-Gen Restroom and Building Rehab	0	08-Jun-18 A		Design Documents Sent to Procurement (for Bid#3) - CD Co-Gen Restroom and Building Rehab																													
CD86030	SBD Goals / OCI Reviews and Provides List (for Bid#3) - CD Co-Gen Restroom and Building Rehab	30	06-Jun-18 A	14-Jun-18 A	SBD Goals / OCI Reviews and Provides List (for Bid#3) - CD Co-Gen Restroom and Building Rehab																													
CD86040	Advertise Bid Package (for Bid#3) - CD Co-Gen Restroom and Building Rehab	0	14-Jun-18 A		Advertise Bid Package (for Bid#3) - CD Co-Gen Restroom and Building Rehab																													
CD86050	Bid Solicitation Period (for Bid#3) - CD Co-Gen Restroom and Building Rehab	45	14-Jun-18 A	26-Jul-18 A	Bid Solicitation Period (for Bid#3) - CD Co-Gen Restroom and Building Rehab																													
CD86060	Bid Due (for Bid#3) - CD Co-Gen Restroom and Building Rehab	0	27-Jul-18 A		Bid Due (for Bid#3) - CD Co-Gen Restroom and Building Rehab																													
CD86070	Bid Review Period (for Bid#3) - CD Co-Gen Restroom and Building Rehab	30	27-Jul-18 A	29-Aug-18 A	Bid Review Period (for Bid#3) - CD Co-Gen Restroom and Building Rehab																													
CD86080	Award Recommendation (for Bid#3) - CD Co-Gen Restroom and Building Rehab	0		29-Aug-18 A	Award Recommendation (for Bid#3) - CD Co-Gen Restroom and Building Rehab																													
CD82040	Procurement - CD Co-Gen Restroom and Building Rehab	81	18-Aug-17 A	29-Nov-18 A	Procurement - CD Co-Gen Restroom and Building Rehab																													
CD82050	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Co-Gen Restroom and Building Rehab	24	26-Aug-18 A	29-Nov-18 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Co-Gen Restroom and Building Rehab																													
Construction					Construction - CD Co-Gen Restroom and Building Rehab																													
CD82060	Contractor Notice to Proceed (NTP) - CD Co-Gen Restroom and Building Rehab	0	30-Nov-18 A		Contractor Notice to Proceed (NTP) - CD Co-Gen Restroom and Building Rehab																													
CD82070	Construction - CD Co-Gen Restroom and Building Rehab	300	30-Nov-18 A	10-Apr-20	Construction - CD Co-Gen Restroom and Building Rehab																													
CD86370	Commissioning - CD Co-Gen Restroom and Building Rehab	30	12-Mar-20	10-Apr-20	Commissioning - CD Co-Gen Restroom and Building Rehab																													
CD82080	2.19 (2b) Substantial Completion (CD Compliance Date 5/21/20) - CD Co-Gen Restroom and Building Rehab	0		10-Apr-20*	2.19 (2b) Substantial Completion (CD Compliance Date 5/21/20) - CD Co-Gen Restroom and Building Rehab																													
CD82090	Project Closeout - CD Co-Gen Restroom and Building Rehab	30	11-Apr-20	10-May-20*	Project Closeout - CD Co-Gen Restroom and Building Rehab																													
Project Administration					Project Administration - CD Co-Gen Restroom and Building Rehab																													
CD85220	WASD Project Administration - CD Co-Gen Restroom and Building Rehab	90	14-Apr-16 A	10-May-20	WASD Project Administration - CD Co-Gen Restroom and Building Rehab																													
2.20 Septage Unloading Station - Cancelled					2.20 Septage Unloading Station - Cancelled																													
Pre-Design					Pre-Design - CD Septage Unloading Station																													
CD12241	Approval of Motion to Cancel Project - CD Septage Unloading Station	0	28-Dec-16 A	28-Dec-16 A	Approval of Motion to Cancel Project - CD Septage Unloading Station																													

Activity ID	Activity Name	Original Duration	Start	Finish	2018				2019				2020				2021				2022				2023				2024				2025				2026			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
2.21 Pump Station No.1					26-Feb-21, 2.21 Pump Station No.1																																			
Pre-Design					25-Jan-18 A, Pre-Design																																			
CD12251	Pre-Design - CD Pump Station No. 1	59	16-Jun-15 A	25-Jan-18 A																																				
CD85380	Pre-Design (Temp. Odor System) - CD Pump Station No. 1	59	16-Jun-15 A	13-Aug-15 A																																				
Engineering Design					22-Feb-18 A, Engineering Design																																			
CD21440	Condition Assessment - CD Pump Station No. 1	70	13-Aug-15 A	08-Nov-15 A																																				
CD21450	Condition Assessment Review Period - CD Pump Station No. 1	12	09-Nov-15 A	20-Nov-15 A																																				
CD83260	EPA Start Date for Engineering Design - CD Pump Station No. 1	0	01-Oct-16 A																																					
CD33770	Negotiate Final Design - CD Pump Station No. 1	326	24-Nov-15 A	14-Oct-16 A																																				
CD21460	BODR Design Submittal - CD Pump Station No. 1	32	15-Oct-16 A	15-Nov-16 A																																				
CD21470	BODR Design Review - CD Pump Station No. 1	7	16-Nov-16 A	22-Nov-16 A																																				
CD21490	60% / Charette Design Submittal - CD Pump Station No. 1	38	23-Nov-16 A	30-Dec-16 A																																				
CD83990	60% / Charette Design Review - CD Pump Station No. 1	10	31-Dec-16 A	09-Jan-17 A																																				
CD21500	100% Design Submittal - CD Pump Station No. 1	58	10-Jan-17 A	08-Mar-17 A																																				
CD10710	Engineering Design - CD Pump Station No. 1	638	13-Aug-15 A	11-May-17 A																																				
CD40500	100% Design Review/Permit Ready Submittal - CD Pump Station No. 1	64	09-Mar-17 A	11-May-17 A																																				
CD81920	EPA Compliance Date for Engineering Design - CD Pump Station No. 1	0		30-Jun-17 A																																				
CD85390	Engineering Design (Tech. Spec.) for Temp. Odor System - CD Pump Station No. 1	66	26-Jan-18 A	22-Feb-18 A																																				
Permitting					05-Feb-18 A, Permitting																																			
CD80180	RER Permit - CD Pump Station No. 1	23	15-May-17 A	06-Jun-17 A																																				
CD83270	EPA Start Date for Permitting - CD Pump Station No. 1	0	01-Jul-17 A																																					
CD10830	Permitting - CD Pump Station No. 1	264	15-May-17 A	08-Jan-18 A																																				
CD80200	City of Miami Permit - CD Pump Station No. 1	236	12-Jun-17 A	08-Jan-18 A																																				
CD81930	EPA Compliance Date for Permitting - CD Pump Station No. 1	0		05-Feb-18 A																																				
Procurement					05-Feb-19 A, Procurement																																			
CD84670	Procurement of Screens for Rehab by WASD - CD Pump Station No. 1	42	23-Dec-15 A	05-Feb-19 A																																				
CD84240	GMOU submittal and approval - CD Pump Station No. 1	22	17-May-17 A	07-Jun-17 A																																				
CD84110	Internal Bid Package Review - CD Pump Station No. 1	33	27-Sep-17 A	07-Dec-17 A																																				
CD32320	Design Documents Sent to Procurement - CD Pump Station No. 1	0	08-Dec-17 A																																					
CD32330	Submit/Approve SBD Goals and Request to Advertise - CD Pump Station No. 1	15	08-Dec-17 A	15-Dec-17 A																																				
CD84690	OCI Reviews and Provides List - CD Pump Station No. 1	5	23-Dec-17 A	10-Jan-18 A																																				
CD32340	Advertise Bid Package - CD Pump Station No. 1	0	11-Jan-18 A																																					
CD83280	EPA Start Date for Procurement - CD Pump Station No. 1	0	06-Feb-18 A																																					
CD32350	Bid Solicitation Period - CD Pump Station No. 1	46	11-Jan-18 A	08-Mar-18 A																																				
CD32360	Bids Due - CD Pump Station No. 1	0	09-Mar-18 A																																					
CD32370	Bid Review Period - CD Pump Station No. 1	31	09-Mar-18 A	06-Apr-18 A																																				
CD32380	Award Recommendation - CD Pump Station No. 1	0		06-Apr-18 A																																				
CD11020	Procurement - CD Pump Station No. 1	862	08-Dec-17 A	10-Jun-18 A																																				
CD32390	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Pump Station No. 1	60	07-Apr-18 A	10-Jun-18 A																																				
CD81940	EPA Compliance Date for Procurement - CD Pump Station No. 1	0		05-Feb-19 A																																				
Construction					26-Feb-21, Construction																																			
CD84680	Screen Rehab by WASD - CD Pump Station No. 1	147	07-Sep-16 A	31-Jan-17 A																																				
CD11148	Contractor Notice to Proceed (NTP) - CD Pump Station No. 1	0	11-Jun-18 A																																					
CD83290	EPA Start Date for Construction - CD Pump Station No. 1	0	06-Feb-19 A																																					
CD11150	Construction - CD Pump Station No. 1	451	07-Sep-16 A	19-Dec-19 A																																				
CD84790	Construction of PS #1 - CD Pump Station No. 1	410	11-Jun-18 A	19-Dec-19 A																																				
CD86380	Commissioning - CD Pump Station No. 1	40	15-Oct-19 A	19-Dec-19 A																																				
CD11210	Substantial Completion (CD Compliance Date 2/26/21) - CD Pump Station No. 1	0		19-Dec-19 A																																				
CD40220	Project Closeout - CD Pump Station No. 1	30	20-Dec-19 A	18-Jan-20*																																				
CD81950	EPA Compliance Date for Construction - CD Pump Station No. 1	0		26-Feb-21*																																				
Project Administration					18-Jan-20, Project Administration																																			
CD34180	WASD Project Administration - CD Pump Station No. 1	1466	13-Aug-15 A	18-Jan-20																																				
2.22 Pump Station No.2					21-Jun-20, 2.22 Pump Station No.2																																			
Pre-Design					13-Apr-15 A																																			
CD12261	Pre-Design - CD Pump Station No. 2	198	30-Sep-14 A	13-Apr-15 A																																				
Engineering Design					01-Oct-14 A																																			
CD83300	EPA Start Date for Engineering Design - CD Pump Station No. 2**	0	01-Oct-14 A																																					
CD81590	EPA Compliance Date for Engineering Design - CD Pump Station No. 2**	0		05-Feb-15 A																																				
CD20490	Basis of Design Report (BODR) - CD Pump Station No. 2	111	13-Apr-15 A	04-Aug-15 A																																				
CD20500	BODR Review Period - CD Pump Station No. 2	17	05-Aug-15 A	21-Aug-15 A																																				
CD30310	Negotiation of Final Design - CD Pump Station No. 2	122	21-Jul-15 A	19-Nov-15 A																																				
CD20530	60% Design Submittal - CD Pump Station No. 2	70	19-Nov-15 A	27-Jan-16 A																																				
CD20540	60% Design Review - CD Pump Station No. 2	7	28-Jan-16 A	03-Feb-16 A																																				
CD20550	100% Design Submittal - CD Pump Station No. 2	35	04-Feb-16 A	09-Mar-16 A																																				
CD40530	Develop Pre-Purchase Bid Packages (Odor Control, Valve, Flowmeter) - CD Pump Station No. 2	66	31-Jan-16 A	05-Apr-16 A																																				
CD10270	Engineering Design - CD Pump Station No. 2	365	13-Apr-15 A	13-Apr-16 A																																				
CD40510	100% Design Review/Permit Ready Submittal - CD Pump Station No. 2	35	10-Mar-16 A	13-Apr-16 A																																				
Permitting					06-Feb-15 A																																			
CD83310	EPA Start Date for Permitting - CD Pump Station No. 2	0	06-Feb-15 A																																					
CD80130	Miami 21 Zoning Permit - CD Pump Station No. 2	54	18-Apr-16 A	10-Jun-16 A																																				
CD82120	DERM Permit - CD Pump Station No. 2	70	13-Apr-16 A	21-Jun-16 A																																				
CD82130	FDOT Permit - CD Pump Station No. 2	11	23-Sep-16 A	03-Oct-16 A																																				
CD10350	Permitting - CD Pump Station No. 2	234	13-Apr-16 A	02-Dec-16 A																																				
CD80060	City of Miami Permit - CD Pump Station No. 2	159	27-Jun-16 A	02-Dec-16 A																																				

Activity ID	Activity Name	Original Duration	Start	Finish	2018		2019				2020				2021				2022				2023				2024				2025				2026			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Project Administration					3741	01-Oct-13 A	27-Mar-27																															
CD34230	WASD Project Administration - CD Rehab of Walkways & Stairways	3741	01-Oct-13 A	27-Mar-27																																		
2.27 Oxygen Production					2796	19-Dec-14 A	14-Aug-22																															
Engineering Design					926	01-Jan-15 A	15-Jul-17 A																															
CD83470	EPA Start for Engineering Design - CD Oxygen Production	0	01-Jan-15 A																																			
CD10320	Engineering Design - CD Oxygen Production	801	13-Apr-15 A	21-Jun-17 A																																		
CD81770	EPA Compliance Date for Engineering Design - CD Oxygen Production	0		15-Jul-17 A																																		
Permitting					85	05-Apr-17 A	29-Jun-17 A																															
CD10550	Permitting - Site Preparation (utilities and demolition)	86	05-Apr-17 A	29-Jun-17 A																																		
Procurement					421	05-Jun-17 A	28-Dec-18 A																															
CD83490	EPA Start Date for Procurement - Site Preparation**	0		16-Jul-17 A																																		
CD81790	EPA Compliance Date for Procurement - CD Oxygen Production & Site Preparation**	0		15-Jul-18 A																																		
CD10800	Procurement (Summary) - CD Oxygen Production & Site Preparation	314	05-Jun-17 A	28-Dec-18 A																																		
Design-Build					1294	16-Jul-18 A	13-Feb-22																															
CD83500	EPA Start Date for Construction - Site Preparation**	0		16-Jul-18 A																																		
CD11010	Construction (Summary) - CD Oxygen Production & Site Preparation	926	29-Mar-19 A	17-Dec-21																																		
CD86160	Substantial Completion (CD Compliance Date 2/13/22) - CD Oxygen Production & Site Preparation	0		17-Dec-21																																		
CD81800	EPA Compliance Date for Construction - CD Oxygen Production & Site Preparation	0		13-Feb-22*																																		
2.27 (1) Oxygen Production Site Preparation					518	28-Jan-16 A	29-Jun-17 A																															
Pre-Design					245	28-Jan-16 A	29-Sep-16 A																															
CD70870	Pre-Design - Site Preparation (utilities and demolition)	246	28-Jan-16 A	29-Sep-16 A																																		
Engineering Design					264	30-Sep-16 A	21-Jun-17 A																															
CD82150	30% Design Submittal - Site Preparation (utilities and demolition)	189	30-Sep-16 A	06-Apr-17 A																																		
CD82160	30% Design Review - Site Preparation (utilities and demolition)	176	26-Oct-16 A	19-Apr-17 A																																		
CD82170	100% Design Submittal NFC - Site Preparation (utilities and demolition)	205	02-Nov-16 A	25-May-17 A																																		
CD82180	100% Design Review - Site Preparation (utilities and demolition)	153	31-Dec-16 A	01-Jun-17 A																																		
CD70880	Engineering Design - Site Preparation (utilities and demolition)	265	30-Sep-16 A	21-Jun-17 A																																		
CD82190	100% Design Submittal Permit Ready - Site Preparation (utilities and demolition)	161	12-Jan-17 A	21-Jun-17 A																																		
Permitting					105	16-Mar-17 A	29-Jun-17 A																															
CD33810	DERM Permit - Site Preparation (utilities and demolition)	57	16-Mar-17 A	11-May-17 A																																		
CD82240	Permitting - Site Preparation (utilities and demolition)	106	16-Mar-17 A	29-Jun-17 A																																		
CD70890	COM Permit - Site Preparation (utilities and demolition)	86	05-Apr-17 A	29-Jun-17 A																																		
Project Administration					272	30-Sep-16 A	29-Jun-17 A																															
CD85330	WASD Project Administration - Site Preparation (utilities and demolition)	273	30-Sep-16 A	29-Jun-17 A																																		
2.27 (2) Oxygen Production Design-Build					2796	19-Dec-14 A	14-Aug-22																															
Pre-Design					114	19-Dec-14 A	12-Apr-15 A																															
CD12291	Pre-Design - CD Oxygen Production	115	19-Dec-14 A	12-Apr-15 A																																		
Engineering Design					732	13-Apr-15 A	14-Apr-17 A																															
CD21640	Basis of Design Report (BODR) - CD Oxygen Production	136	13-Apr-15 A	26-Aug-15 A																																		
CD21580	BODR Review Period - CD Oxygen Production	14	27-Aug-15 A	09-Sep-15 A																																		
CD30330	Negotiate Phase II Design - CD Oxygen Production	428	27-Jul-15 A	26-Sep-16 A																																		
CD33780	Design Criteria Package Initial Submittal - CD Oxygen Production	150	27-Sep-16 A	23-Feb-17 A																																		
CD82200	Final Basis of Design Report (BODR) and Specs - CD Oxygen Production	150	27-Sep-16 A	23-Feb-17 A																																		
CD33790	DCP Design Review - CD Oxygen Production	25	24-Feb-17 A	20-Mar-17 A																																		
CD33800	Final DCP Submittal - CD Oxygen Production	10	21-Mar-17 A	30-Mar-17 A																																		
CD82260	Engineering Design - CD Oxygen Production	733	13-Apr-15 A	14-Apr-17 A																																		
CD82210	Issue Final RDBS - CD Oxygen Production	200	27-Sep-16 A	14-Apr-17 A																																		
Procurement					596	17-Apr-17 A	18-Dec-18 A																															
CD84120	Internal Bid Package review - CD Oxygen Production	49	17-Apr-17 A	04-Jun-17 A																																		
CD31040	RDBS sent to ISD - CD Oxygen Production	0	05-Jun-17 A																																			
CD31050	Submit/Approve SBD Goals and Request to Advertise - CD Oxygen Production	25	05-Jun-17 A	29-Jun-17 A																																		
CD33840	Advertise RDBS - CD Oxygen Production	0	26-Jul-17 A																																			
CD33850	Request for Qualifications - CD Oxygen Production	80	26-Jul-17 A	13-Oct-17 A																																		
CD33860	Qualifications Package Due - CD Oxygen Production	0		13-Oct-17 A																																		
CD33870	Qualification Review Period - CD Oxygen Production	55	14-Oct-17 A	05-Dec-17 A																																		
CD33880	Shortlist Published - CD Oxygen Production	0		05-Dec-17 A																																		
CD33890	Request for Proposals - CD Oxygen Production	44	05-Dec-17 A	06-Mar-18 A																																		
CD31060	Proposals Due - CD Oxygen Production	0		06-Mar-18 A																																		
CD31070	Proposal Review Period - CD Oxygen Production	20	07-Mar-18 A	22-Mar-18 A																																		
CD31080	Award Recommendation - CD Oxygen Production	0	23-Mar-18 A																																			
CD31100	Contract Negotiations - CD Oxygen Production	30	07-May-18 A	20-Jul-18 A																																		
CD82250	Procurement - CD Oxygen Production	314	05-Jun-17 A	18-Dec-18 A																																		
CD31110	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Oxygen Production	95	21-Jul-18 A	18-Dec-18 A																																		
Design-Build					1232	29-Mar-19 A	14-Aug-22																															
CD33820	Design-Builder NTP - CD Oxygen Production	0	29-Mar-19 A																																			
CD84700	Construction of Site Preparation (CD 2.27(1)) - CD Oxygen Production	380	29-Mar-19 A	12-Apr-20																																		
CD84720	Construction Completion Milestone #1 (CD Compliance Date 2/13/22) - CD Oxygen Production	0		12-Apr-20*																																		
CD33920	AHJ Permit Review - CD Oxygen Production	395	26-Sep-19 A	30-May-20																																		
CD33910	Final Engineering by Design-Builder - CD Oxygen Production	445	29-Mar-19 A	24-Jun-20																																		
CD84750	Design-Builder Summary (NTP to Milestone #2) - CD Oxygen Production	926	29-Mar-19 A	17-Dec-21																																		
CD70930	Design-Builder Construction - CD Oxygen Production	587	10-May-20	17-Dec-21																																		
CD84730	Construction Completion Milestone #2 (CD Compliance Date 2/13/22) - CD Oxygen Production	0		17-Dec-21*																																		
CD85340	EPA Compliance Date for Construction - CD Oxygen Production & Site Preparation	0		13-Feb-22*																																		
CD84740	Construction of VPSA 2 (Non-Consent Decree) - CD Oxygen Production	162	18-Dec-21	28-May-22																																		
CD86400	Commissioning - CD Oxygen Production	30	29-Apr-22	28-May-22																																		

Activity ID	Activity Name	Original Duration	Start	Finish	2018		2019				2020				2021				2022				2023				2024				2025				2026	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
CD11240	Substantial Completion (Non-Consent Decree) - CD Oxygen Production	0		28-May-22	◆ Substantial Completion (Non-Consent Decree) - CD Oxygen Production																															
CD40270	Project Closeout - CD Oxygen Production	78	29-May-22	14-Aug-22*	◆ Project Closeout - CD Oxygen Production																															
Project Administration		1993	13-Apr-15 A	14-Aug-22	◆ 14-Aug-22, Project Administration																															
CD34240	WASD Project Administration - CD Oxygen Production	1993	13-Apr-15 A	14-Aug-22	◆ WASD Project Administration - CD Oxygen Production																															
2.28 SCADA RTU Upgrades																																				
Construction		179	01-Oct-13 A	29-Mar-14 A																																
CD71210	EPA Start Date for Construction - CD SCADA RTU Upgrades	0	01-Oct-13 A																																	
CD10020	Construction - CD SCADA RTU Upgrades	133	01-Oct-13 A	10-Feb-14 A																																
CD10100	Substantial Completion (CD Compliance Date 3/29/14) - CD SCADA RTU Upgrades	0		10-Feb-14 A																																
CD81810	EPA Compliance Date for Construction - CD SCADA RTU Upgrades	0		29-Mar-14 A																																
Project Administration		132	01-Oct-13 A	10-Feb-14 A																																
CD85280	WASD Project Administration - CD SCADA RTU Upgrades	133	01-Oct-13 A	10-Feb-14 A																																
2.29 High Strength Influent Impact Study																																				
Engineering Design		497	12-Feb-13 A	24-Jun-14 A																																
CD71220	EPA Start Date for Engineering Study - CD High Strength Influent Study Impact	0	12-Feb-13 A																																	
CD10000	Engineering Study - CD High Strength Influent Study Impact	472	12-Feb-13 A	29-May-14 A																																
CD10190	Substantial Completion (CD Compliance Date 6/24/14) - High Strength Influent Impact Study	0		29-May-14 A																																
CD81820	EPA Compliance Date for Engineering Study - CD High Strength Influent Study Impact	0		24-Jun-14 A																																
Project Administration		471	12-Feb-13 A	29-May-14 A																																
CD85290	WASD Project Administration - CD High Strength Influent Study Impact	472	12-Feb-13 A	29-May-14 A																																
2.CM CDWWTP CM Office & Contractor Trailers Site Prep																																				
Pre-Design		168	05-Nov-15 A	21-Apr-16 A																																
CD70000	Pre-Design - CDWWTP Contractor's Trailers Site Prep	169	05-Nov-15 A	21-Apr-16 A																																
Engineering Design		200	22-Apr-16 A	08-Nov-16 A																																
CD70010	Engineering Design - CDWWTP Contractor's Trailers Site Prep	201	22-Apr-16 A	08-Nov-16 A																																
Permitting		174	08-Nov-16 A	01-May-17 A																																
CD80010	Florida Department of Health Permit - CDWWTP Contractor's Trailers Site Prep	6	14-Dec-16 A	19-Dec-16 A																																
CD80020	DERM Permit - CDWWTP Contractor's Trailers Site Prep	86	12-Dec-16 A	07-Mar-17 A																																
CD70020	Permitting - CDWWTP Contractor's Trailers Site Prep	175	08-Nov-16 A	01-May-17 A																																
CD84560	COM Permit - CDWWTP Contractor's Trailers Site Prep	77	14-Feb-17 A	01-May-17 A																																
Procurement		162	02-May-17 A	19-Oct-17 A																																
CD84570	Design Documents Sent to Procurement - CDWWTP Contractor's Trailers Site Prep	0	02-May-17 A																																	
CD84580	Submit/Approve SBD Goals and Request to Advertise - CDWW TP Contractor's Trailers Site Prep	15	02-May-17 A	16-May-17 A																																
CD84590	Advertise Bid Package - CDWWTP Contractor's Trailers Site Prep	0	17-May-17 A																																	
CD84600	Bid Solicitation Period - CDWWTP Contractor's Trailers Site Prep	44	17-May-17 A	29-Jun-17 A																																
CD84610	Bids Due - CDWWTP Contractor's Trailers Site Prep	0	30-Jun-17 A																																	
CD84620	Bid Review Period - CDWWTP Contractor's Trailers Site Prep	60	30-Jun-17 A	28-Aug-17 A																																
CD84630	Award Recommendation - CDWWTP Contractor's Trailers Site Prep	0	29-Aug-17 A																																	
CD70030	Procurement - CDWWTP Contractor's Trailers Site Prep	162	02-May-17 A	19-Oct-17 A																																
CD84640	Final Approvals - CDWW TP Contractor's Trailers Site Prep	43	29-Aug-17 A	19-Oct-17 A																																
Construction		276	05-Feb-18 A	31-Jan-20																																
CD84650	Contractor Notice to Proceed(NTP) - CDWWTP Contractor's Trailers Site Prep	0	05-Feb-18 A																																	
CD70040	Construction - CDWWTP Contractor's Trailers Site Prep	90	05-Feb-18 A	12-Sep-18 A																																
CD84660	Substantial Completion - CDWWTP Contractor's Trailers Site Prep	0		12-Sep-18 A																																
CD81910	Project Closeout - Contractor's Trailers Site Prep	30	13-Sep-18 A	31-Jan-20*																																
Project Administration		657	22-Apr-16 A	31-Jan-20																																
CD85300	WASD Project Administration - Contractor's Trailers Site Prep	657	22-Apr-16 A	31-Jan-20																																
2. TE CD Temporary Electrical Facilities																																				
Pre-Design		575	26-Feb-16 A	22-Sep-17 A																																
CD84840	Pre-Design - CD Temporary Electrical Facilities	575	26-Feb-16 A	22-Sep-17 A																																
Engineering Design		200	25-Sep-17 A	31-Aug-18 A																																
CD84850	Engineering Design - CD Temporary Electrical Facilities	124	25-Sep-17 A	12-Apr-18 A																																
CD86410	Complete Master Plan - CD Temporary Electrical Facilities	0	13-Apr-18 A	31-Aug-18 A																																
2.SM CDWWTP Stormwater Master Plan																																				
Engineering Design		396	27-Jun-16 A	28-Jul-17 A																																
CD80000	Develop Stormwater Master Plan	397	27-Jun-16 A	28-Jul-17 A																																
Project Administration		396	27-Jun-16 A	28-Jul-17 A																																
CD85320	WASD Project Administration - Develop Stormwater Master Plan	397	27-Jun-16 A	28-Jul-17 A																																
3. North District WWTP																																				
3.01 Headworks and Sludge Dewatering & Transfer																																				
Engineering Design		548	20-Mar-13 A	19-Sep-14 A																																
ND70790	EPA Start Date for Engineering Design - ND Headworks & Sludge Dewatering	0	20-Mar-13 A																																	
ND10000	Engineering Design - ND Headworks & Sludge Dewatering	479	20-Mar-13 A	11-Jul-14 A																																
ND70320	EPA Compliance Date for Engineering Design - ND Headworks & Sludge Dewatering	0		19-Sep-14 A																																
Permitting		476	11-Jun-14 A	30-Sep-15 A																																
ND70800	EPA Start Date for Permitting - ND Headworks & Sludge Dewatering	0	11-Jul-14 A																																	
ND70330	EPA Compliance Date for Permitting - ND Headworks & Sludge Dewatering**	0		05-Sep-15 A																																
ND10010	Permitting - ND Headworks & Sludge Dewatering	477	11-Jun-14 A	30-Sep-15 A																																
Procurement		1116	01-Oct-14 A	15-Nov-16 A																																
ND70810	EPA Start Date for Procurement - ND Headworks & Sludge Dewatering	0	01-Oct-14 A																																	
ND11445	Owner Pre-Purchase - Procurement Electrical Equip. - ND Headworks & Sludge Dewatering	71	04-Dec-14 A	12-Feb-15 A																																
ND20850	Owner Pre-Purchase - Procurement Screens - ND Headworks & Sludge Dewatering	95	04-Dec-14 A	08-Mar-15 A																																
ND10050	Procurement - ND Headworks & Sludge Dewatering	208	08-Apr-15 A	01-Nov-15 A																																
ND70340	EPA Compliance Date for Procurement - ND Headworks & Sludge Dewatering	0		03-Dec-15 A																																

Activity ID	Activity Name	Original Duration	Start	Finish	2018-2026																																			
					2018				2019				2020				2021				2022				2023				2024				2025				2026			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
ND11365	Owner Pre-Purchase/Fabricate/Deliver Screens - ND Headworks & Sludge Degritting	285	09-Mar-15 A	18-Dec-15 A	- ND Headworks & Sludge Degritting																																			
ND20840	Owner Pre-Purchase - Fabricate/Deliver Electrical Equip. - ND Headworks & Sludge Degritting	981	13-Feb-15 A	15-Nov-16 A	Fabricate/Deliver Electrical Equip. - ND Headworks & Sludge Degritting																																			
Construction					31-Mar-20, Construction																																			
ND21360	Contractor NTP - ND Headworks & Sludge Degritting	0	02-Nov-15 A	02-Nov-15 A	Contractor NTP - ND Headworks & Sludge Degritting																																			
ND70820	EPA Start Date for Construction - ND Headworks & Sludge Degritting	0	04-Dec-15 A		EPA Start Date for Construction - ND Headworks & Sludge Degritting																																			
ND71230	Milestone #1 - Commissioning of Electrical Annex - ND Headworks & Sludge Degritting	0		27-Dec-16 A	Commissioning of Electrical Annex - ND Headworks & Sludge Degritting																																			
ND10080	Construction Phase 1: Screens - ND Headworks & Sludge Degritting	576	02-Nov-15 A	30-May-17 A	Construction Phase 1: Screens - ND Headworks & Sludge Degritting																																			
ND20830	Substantial Completion Phase 1/Milestone #2 (CD Compliance Date 4/07/18) - ND Headworks & Sludge Degritting	0		30-May-17 A	Substantial Completion Phase 1/Milestone #2 (CD Compliance Date 4/07/18) - ND Headworks & Sludge Degritting																																			
ND10170	Construction Phase 2: Building Improvements - ND Headworks & Sludge Degritting	795	02-Nov-15 A	06-Dec-17 A	Construction Phase 2: Building Improvements - ND Headworks & Sludge Degritting																																			
ND10340	Substantial Completion Phase 2 (CD Compliance Date 4/07/18) - ND Headworks & Sludge Degritting	0		06-Dec-17 A	Substantial Completion Phase 2 (CD Compliance Date 4/07/18) - ND Headworks & Sludge Degritting																																			
ND70350	EPA Compliance Date for Construction Phase 2: Building Improvements - ND Headworks & Sludge Degritting	0		07-Apr-18 A	EPA Compliance Date for Construction Phase 2: Building Improvements - ND Headworks & Sludge Degritting																																			
ND40280	Project Closeout - ND Headworks & Sludge Degritting	64	07-Dec-17 A	31-Mar-20*	Project Closeout - ND Headworks & Sludge Degritting																																			
Project Administration					31-Mar-20, Project Administration																																			
ND21500	WASD Project Administration - ND Headworks & Sludge Degritting	1816	20-Mar-13 A	31-Mar-20	WASD Project Administration - ND Headworks & Sludge Degritting																																			
3.02 Primary Clarifiers and Odor Control					06-Apr-23, 3.02 Primary Clarifiers and Odor Control																																			
Engineering Design					03-Sep-14 A, 15-May-17 A																																			
ND70830	EPA Start Date for Engineering Design - ND Primary Clarifiers & Odor Control	0	01-Nov-15 A		EPA Start Date for Engineering Design - ND Primary Clarifiers & Odor Control																																			
ND10090	Engineering Design - ND Primary Clarifiers & Odor Control	958	03-Sep-14 A	17-Apr-17 A	Engineering Design - ND Primary Clarifiers & Odor Control																																			
ND70360	EPA Compliance Date for Engineering Design - ND Primary Clarifiers & Odor Control	0		15-May-17 A	EPA Compliance Date for Engineering Design - ND Primary Clarifiers & Odor Control																																			
Permitting					25-Oct-15 A, 10-Oct-17 A																																			
ND70840	EPA Start Date for Permitting - ND Primary Clarifiers & Odor Control	0	10-Mar-17 A		EPA Start Date for Permitting - ND Primary Clarifiers & Odor Control																																			
ND70370	EPA Compliance Date for Permitting - ND Primary Clarifiers & Odor Control**	0		05-Sep-17 A	EPA Compliance Date for Permitting - ND Primary Clarifiers & Odor Control**																																			
ND10130	Permitting - ND Primary Clarifiers & Odor Control	733	25-Oct-15 A	10-Oct-17 A	Permitting - ND Primary Clarifiers & Odor Control																																			
Procurement					07-Feb-17 A, 05-Dec-18 A																																			
ND70850	EPA Start Date for Procurement - ND Primary Clarifiers & Odor Control**	0	06-Sep-17 A		EPA Start Date for Procurement - ND Primary Clarifiers & Odor Control**																																			
ND70380	EPA Compliance Date for Procurement - ND Primary Clarifiers & Odor Control	0		02-Jun-18 A	EPA Compliance Date for Procurement - ND Primary Clarifiers & Odor Control																																			
ND10210	Procurement - ND Primary Clarifiers & Odor Control	505	07-Feb-17 A	05-Dec-18 A	Procurement - ND Primary Clarifiers & Odor Control																																			
Construction					23-Aug-17 A, 06-Apr-23																																			
ND70860	EPA Start Date for Construction - ND Primary Clarifiers & Odor Control	0	03-Jun-18 A		EPA Start Date for Construction - ND Primary Clarifiers & Odor Control																																			
ND10270	Construction - ND Primary Clarifiers & Odor Control	1308	23-Aug-17 A	30-Aug-21	Construction - ND Primary Clarifiers & Odor Control																																			
ND71790	Substantial Completion (CD Compliance Date 4/06/23) - ND Primary Clarifiers & Odor Control	0		30-Aug-21	Substantial Completion (CD Compliance Date 4/06/23) - ND Primary Clarifiers & Odor Control																																			
ND70390	EPA Compliance Date for Construction - ND Primary Clarifiers & Odor Control	0		06-Apr-23*	EPA Compliance Date for Construction - ND Primary Clarifiers & Odor Control																																			
3.02 (1) Replace Mechanisms for Primary Clarifiers #4 & 6					28-Feb-20, 3.02 (1) Replace Mechanisms for Primary Clarifiers #4 & 6																																			
Pre-Design					20 01-Dec-16 A, 21-Dec-16 A																																			
ND71280	Negotiate Scope and Cost of VFI Package (MWH) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	21	01-Dec-16 A	21-Dec-16 A	Negotiate Scope and Cost of VFI Package (MWH) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																			
Engineering Design					22-Dec-16 A, 27-Jan-17 A																																			
ND71250	Submit Draft VFI Package - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	23	22-Dec-16 A	13-Jan-17 A	Submit Draft VFI Package - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																			
ND71260	Review Draft VFI Package - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	4	14-Jan-17 A	17-Jan-17 A	Review Draft VFI Package - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																			
ND71470	Engineering Design - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	37	22-Dec-16 A	27-Jan-17 A	Engineering Design - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																			
ND71270	Submit Final VFI Package - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	10	18-Jan-17 A	27-Jan-17 A	Submit Final VFI Package - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																			
Procurement					30-Jan-17 A, 23-Aug-17 A																																			
ND71380	Internal Bid Package Review - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	8	30-Jan-17 A	06-Feb-17 A	Internal Bid Package Review - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																			
ND71290	Design Documents Sent to Procurement - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	0	07-Feb-17 A		Design Documents Sent to Procurement - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																			
ND71540	GMOU submittal and approval - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	21	30-Jan-17 A	19-Feb-17 A	GMOU submittal and approval - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																			
ND71300	Submit/Approve SBD Goals and Request to Advertise - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	28	07-Feb-17 A	06-Mar-17 A	Submit/Approve SBD Goals and Request to Advertise - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																			
ND71310	Advertise Bid Package - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	0	07-Mar-17 A		Advertise Bid Package - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																			
ND71320	Bid Solicitation Period - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	66	07-Mar-17 A	11-May-17 A	Bid Solicitation Period - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																			
ND71330	Bids Due - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	0	12-May-17 A		Bids Due - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																			
ND71340	Bid Review Period - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	98	12-May-17 A	17-Aug-17 A	Bid Review Period - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																			
ND71350	Award Recommendation - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	0		17-Aug-17 A	Award Recommendation - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																			
ND71360	Procurement - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	198	07-Feb-17 A	23-Aug-17 A	Procurement - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																			
ND71370	Final Approvals (BCC, Mayor, Risk Mgmt.) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	6	18-Aug-17 A	23-Aug-17 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																			
Construction					23-Aug-17 A, 28-Feb-20																																			
ND71500	Contractor Notice to Proceed (NTP) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	0	23-Aug-17 A		Contractor Notice to Proceed (NTP) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																			
ND71510	Construction - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	422	23-Aug-17 A	20-Feb-19 A	Construction - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																			
ND71800	Commissioning - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	14	07-Feb-19 A	20-Feb-19 A	Commissioning - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																			
ND71520	Substantial Completion (CD Compliance Date 4/06/23) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	0		20-Feb-19 A	Substantial Completion (CD Compliance Date 4/06/23) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																			
ND71530	Project Closeout - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	30	21-Feb-19 A	28-Feb-20*	Project Closeout - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																			
Project Administration					22-Dec-16 A, 28-Feb-20																																			
ND71730	WASD Project Administration - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	696	22-Dec-16 A	28-Feb-20	WASD Project Administration - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																			
3.02 (2) Primary Clarifiers and Odor Control (Remaining Scope of Work)					03-Sep-14 A, 28-Nov-21, 3.02 (2) Primary Clarifiers and Odor Control (Remaining Scope of Work)																																			
Pre-Design					134 25-Mar-15 A, 06-Aug-15 A																																			
ND11375	Pre-Design (MWH) - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	135	25-Mar-15 A	06-Aug-15 A	Pre-Design (MWH) - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
Engineering Design					03-Sep-14 A, 17-Apr-17 A																																			
ND20140	Basis of Design Report (B&C) - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	330	03-Sep-14 A	29-Jul-15 A	Basis of Design Report (B&C) - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
ND20150	30% Design Submittal - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	127	06-Aug-15 A	10-Dec-15 A	30% Design Submittal - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
ND20011	30% Design Review - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	21	11-Dec-15 A	31-Dec-15 A	30% Design Review - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
ND20021	60% Design Submittal - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	84	01-Jan-16 A	24-Mar-16 A	60% Design Submittal - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
ND20031	60% Design Review - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	11	25-Mar-16 A	04-Apr-16 A	60% Design Review - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
ND20040	100% Design Submittal - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	353	05-Apr-16 A	23-Mar-17 A	100% Design Submittal - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
ND71430	Engineering Design - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	958	03-Sep-14 A	17-Apr-17 A	Engineering Design - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
ND40380	100% Design Review/Permit Ready Submittal - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	25	24-Mar-17 A	17-Apr-17 A	100% Design Review/Permit Ready Submittal - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
Permitting					25-Oct-15 A, 10-Oct-17 A																																			
ND70280	FDEP Permit - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	47	25-Oct-15 A	10-Dec-15 A	FDEP Permit - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
ND70290	RER Permit - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	129	20-Jun-17 A	30-Jun-17 A	RER Permit - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			

Activity ID	Activity Name	Original Duration	Start	Finish	2018 - 2026																																			
					2018				2019				2020				2021				2022				2023				2024				2025				2026			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
ND70310	Fire Department Permit - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	129	20-Jun-17 A	24-Aug-17 A	Department Permit - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
ND71440	Permitting - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	733	25-Oct-15 A	10-Oct-17 A	Permitting - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
ND70300	City of North Miami Permit - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	186	24-Apr-17 A	10-Oct-17 A	City of North Miami Permit - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
Procurement																																								
ND71550	GMOU submittal and approval - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	22	10-Jul-17 A	31-Jul-17 A	GMOU submittal and approval - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
ND71480	Internal Bid Package Review - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	3	30-Oct-17 A	12-Nov-17 A	Internal Bid Package Review - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
ND20880	Design Documents Sent to Procurement - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	0	14-Dec-17 A		Design Documents Sent to Procurement - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
ND20890	Submit/Approve SBD Goals and Request to Advertise - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	60	13-Nov-17 A	08-Feb-18 A	Submit/Approve SBD Goals and Request to Advertise - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
ND20900	Advertise Bid Package - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	0	09-Feb-18 A		Advertise Bid Package - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
ND20910	Bid Solicitation Period - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	34	09-Feb-18 A	20-May-18 A	Bid Solicitation Period - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
ND20920	Bids Due - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	0	21-May-18 A		Bids Due - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
ND20930	Bid Review Period - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	19	21-May-18 A	12-Oct-18 A	Bid Review Period - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
ND20940	Award Recommendation - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	0		12-Oct-18 A	Award Recommendation - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
ND71450	Procurement - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	223	14-Dec-17 A	05-Dec-18 A	Procurement - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
ND20950	Final Approvals (BCC, Mayor, Risk Mgmt.) - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	60	13-Oct-18 A	05-Dec-18 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																			
Construction																																								
ND10268	Contractor Notice to Proceed (NTP) - ND Primary Clarifiers & Odor Control	0	06-Dec-18 A		Contractor Notice to Proceed (NTP) - ND Primary Clarifiers & Odor Control																																			
ND71460	Construction - ND Primary Clarifiers & Odor Control (Remaining Scope)	999	06-Dec-18 A	30-Aug-21	Construction - ND Primary Clarifiers & Odor Control (Remaining Scope)																																			
ND71810	Commissioning - ND Primary Clarifiers & Odor Control	30	01-Aug-21	30-Aug-21*	Commissioning - ND Primary Clarifiers & Odor Control																																			
ND10420	Substantial Completion (CD Compliance Date 4/06/23) - ND Primary Clarifiers & Odor Control	0		30-Aug-21*	Substantial Completion (CD Compliance Date 4/06/23) - ND Primary Clarifiers & Odor Control																																			
ND40290	Project Closeout - ND Primary Clarifiers & Odor Control	90	31-Aug-21	28-Nov-21*	Project Closeout - ND Primary Clarifiers & Odor Control																																			
Project Administration																																								
ND21510	WASD Project Administration - ND Primary Clarifiers & Odor Control	2483	03-Sep-14 A	28-Nov-21	WASD Project Administration - ND Primary Clarifiers & Odor Control																																			
3.03 Oxygenation Trains																																								
Pre-Design																																								
ND11385	Pre-Design (BODR) - ND Oxygenation Trains	237	25-Apr-17 A	04-Oct-18 A	Pre-Design (BODR) - ND Oxygenation Trains																																			
ND71620	Pre-Design (Tank #5 Rehab) - ND Oxygenation Trains	190	25-Apr-17 A	04-Oct-18 A	Pre-Design (Tank #5 Rehab) - ND Oxygenation Trains																																			
Engineering Design																																								
ND70880	EPA Start Date for Engineering Design - ND Oxygenation Trains	0	01-Jan-19 A		EPA Start Date for Engineering Design - ND Oxygenation Trains																																			
ND20230	Basis of Design Report (BODR) - ND Oxygenation Trains	286	01-Jun-18 A	08-Apr-19 A	Basis of Design Report (BODR) - ND Oxygenation Trains																																			
ND20240	BODR Review/Re-submittal - ND Oxygenation Trains	30	09-Apr-19 A	09-Jul-19 A	BODR Review/Re-submittal - ND Oxygenation Trains																																			
ND70400	EPA Compliance Date for Engineering Design - ND Oxygenation Trains	0		14-Oct-19 A	EPA Compliance Date for Engineering Design - ND Oxygenation Trains																																			
ND20250	Negotiate Phase II Design - ND Oxygenation Trains	125	02-May-19 A	04-Nov-19 A	Negotiate Phase II Design - ND Oxygenation Trains																																			
ND20260	Design Criteria Package Initial Submittal / Final Basis of Design Report (BODR) and Specs - ND Oxygenation Trains	145	05-Nov-19 A	28-Apr-20	Design Criteria Package Initial Submittal / Final Basis of Design Report (BODR) and Specs - ND Oxygenation Trains																																			
ND40470	Issue Final RDBS - ND Oxygenation Trains	145	05-Nov-19 A	28-Apr-20	Issue Final RDBS - ND Oxygenation Trains																																			
ND20280	DCP Design Review - ND Oxygenation Trains	45	29-Apr-20	12-Jun-20	DCP Design Review - ND Oxygenation Trains																																			
ND10310	Engineering Design - ND Oxygenation Trains	815	01-Jun-18 A	27-Jun-20	Engineering Design - ND Oxygenation Trains																																			
ND20290	Final DCP Submittal - ND Oxygenation Trains	15	13-Jun-20	27-Jun-20	Final DCP Submittal - ND Oxygenation Trains																																			
Permitting																																								
ND70890	EPA Start Date for Permitting - ND Oxygenation Trains	0	15-Oct-19 A		EPA Start Date for Permitting - ND Oxygenation Trains																																			
ND10350	Permitting - ND Oxygenation Trains	60	28-Jun-20	26-Aug-20	Permitting - ND Oxygenation Trains																																			
ND71660	Permitting (Remaining Scope of Work) - ND Oxygenation Trains	60	28-Jun-20	26-Aug-20	Permitting (Remaining Scope of Work) - ND Oxygenation Trains																																			
ND70410	EPA Compliance Date for Permitting - ND Oxygenation Trains	0		13-Oct-20*	EPA Compliance Date for Permitting - ND Oxygenation Trains																																			
Procurement																																								
ND71630	P.O. for Tank #5 Cleaning - ND Oxygenation Trains	196	19-Jun-17 A	27-Jan-19 A	P.O. for Tank #5 Cleaning - ND Oxygenation Trains																																			
ND71390	Internal Bid Package Review - ND Oxygenation Trains	30	29-Apr-20	28-May-20	Internal Bid Package Review - ND Oxygenation Trains																																			
ND21200	RDBS sent to ISD - ND Oxygenation Trains	0	29-May-20		RDBS sent to ISD - ND Oxygenation Trains																																			
ND21210	Submit/Approve SBD Goals and Request to Advertise - ND Oxygenation Trains	30	29-May-20	27-Jun-20	Submit/Approve SBD Goals and Request to Advertise - ND Oxygenation Trains																																			
ND21220	Advertise RDBS - ND Oxygenation Trains	0	28-Jun-20		Advertise RDBS - ND Oxygenation Trains																																			
ND71900	Request for Qualifications - ND Oxygenation Trains	90	28-Jun-20	25-Sep-20	Request for Qualifications - ND Oxygenation Trains																																			
ND71910	Qualifications Package Due - ND Oxygenation Trains	0	26-Sep-20		Qualifications Package Due - ND Oxygenation Trains																																			
ND70900	EPA Start Date for Procurement - ND Oxygenation Trains	0	14-Oct-20*		EPA Start Date for Procurement - ND Oxygenation Trains																																			
ND71940	Qualification Review Period - ND Oxygenation Trains	90	26-Sep-20	24-Dec-20	Qualification Review Period - ND Oxygenation Trains																																			
ND71920	Shortlist Published - ND Oxygenation Trains	0	25-Dec-20		Shortlist Published - ND Oxygenation Trains																																			
ND21230	Request for Proposals - ND Oxygenation Trains	90	25-Dec-20	24-Mar-21	Request for Proposals - ND Oxygenation Trains																																			
ND21240	Proposals Due - ND Oxygenation Trains	0	25-Mar-21		Proposals Due - ND Oxygenation Trains																																			
ND21250	Proposal Review Period - ND Oxygenation Trains	30	25-Mar-21	23-Apr-21	Proposal Review Period - ND Oxygenation Trains																																			
ND21260	Award Recommendation - ND Oxygenation Trains	0		23-Apr-21	Award Recommendation - ND Oxygenation Trains																																			
ND71930	Contract Negotiations - ND Oxygenation Trains	80	24-Apr-21	12-Jul-21	Contract Negotiations - ND Oxygenation Trains																																			
ND70420	EPA Compliance Date for Procurement - ND Oxygenation Trains	0		13-Oct-21*	EPA Compliance Date for Procurement - ND Oxygenation Trains																																			
ND10390	Procurement - ND Oxygenation Trains	550	29-May-20	29-Nov-21	Procurement - ND Oxygenation Trains																																			
ND21270	Final Approvals (BCC, Mayor, Risk Mgmt.) - ND Oxygenation Trains	140	13-Jul-21	29-Nov-21	Final Approvals (BCC, Mayor, Risk Mgmt.) - ND Oxygenation Trains																																			
Construction																																								
ND71640	Cleaning of Tank #5 - ND Oxygenation Trains	180	28-Jan-19 A	21-Apr-19 A	Cleaning of Tank #5 - ND Oxygenation Trains																																			
Design-Build																																								
ND70910	EPA Start Date for Construction - ND Oxygenation Trains	0	14-Oct-21*		EPA Start Date for Construction - ND Oxygenation Trains																																			
ND10428	Contractor Notice to Proceed (NTP) - ND Oxygenation Trains	0	30-Nov-21		Contractor Notice to Proceed (NTP) - ND Oxygenation Trains																																			
ND10430	Construction - ND Oxygenation Trains	975	30-Nov-21	31-Jul-24	Construction - ND Oxygenation Trains																																			
ND71700	Construction (Remaining Scope of Work) - ND Oxygenation Trains	975	30-Nov-21	31-Jul-24	Construction (Remaining Scope of Work) - ND Oxygenation Trains																																			
ND71820	Commissioning - ND Oxygenation Trains	30	02-Jul-24	31-Jul-24	Commissioning - ND Oxygenation Trains																																			
ND10510	Substantial Completion (CD Compliance Date 3/06/26) - ND Oxygenation Trains	0		31-Jul-24*	Substantial Completion (CD Compliance Date 3/06/26) - ND Oxygenation Trains																																			
ND40300	Project Closeout - ND Oxygenation Trains	90	01-Aug-24	29-Oct-24*	Project Closeout - ND Oxygenation Trains																																			
ND70430	EPA Compliance Date for Construction - ND Oxygenation Trains	0		06-Mar-26*	EPA Compliance Date for Construction - ND Oxygenation Trains																																			
Project Administration																																								
		2273	01-Jun-18 A	29-Oct-24	Project Administration																																			

Activity ID	Activity Name	Original Duration	Start	Finish	2018		2019				2020				2021				2022				2023				2024				2025				2026			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
ND21520	WASD Project Administration - ND Oxygenation Trains	2273	01-Jun-18 A	29-Oct-24	WASD Project Administration - ND Oxygenation Trains																																	
3.04 Oxygen Production					3.04 Oxygen Production																																	
Pre-Design					Pre-Design																																	
ND70750	Pre-Design (BODR) - ND Oxygen Production	150	21-Jul-17 A	01-Jun-18 A	Pre-Design (BODR) - ND Oxygen Production																																	
Engineering Design					Engineering Design																																	
ND20160	Basis of Design Report (BODR) - ND Oxygen Production	286	01-Jun-18 A	08-Apr-19 A	Basis of Design Report (BODR) - ND Oxygen Production																																	
ND20170	BODR Review/Re-submittal - ND Oxygen Production	30	09-Apr-19 A	09-Jul-19 A	BODR Review/Re-submittal - ND Oxygen Production																																	
ND20180	Negotiate Phase II Design - ND Oxygen Production	125	02-May-19 A	04-Nov-19 A	Negotiate Phase II Design - ND Oxygen Production																																	
ND70920	EPA Start Date for Engineering Design - ND Oxygen Production	0	01-Apr-20*		EPA Start Date for Engineering Design - ND Oxygen Production																																	
ND20190	Design Criteria Package Initial Submittal / Final Basis of Design Report (BODR) and Specs - ND Oxygen Production	145	05-Nov-19 A	28-Apr-20	Design Criteria Package Initial Submittal / Final Basis of Design Report (BODR) and Specs - ND Oxygen Production																																	
ND40480	Issue Final RDBS - ND Oxygen Production	145	05-Nov-19 A	28-Apr-20	Issue Final RDBS - ND Oxygen Production																																	
ND20210	DCP Design Review - ND Oxygen Production	45	29-Apr-20	12-Jun-20	DCP Design Review - ND Oxygen Production																																	
ND10370	Engineering Design - ND Oxygen Production	815	01-Jun-18 A	27-Jun-20	Engineering Design - ND Oxygen Production																																	
ND20310	Final DCP Submittal - ND Oxygen Production	15	13-Jun-20	27-Jun-20	Final DCP Submittal - ND Oxygen Production																																	
ND70440	EPA Compliance Date for Engineering Design - ND Oxygen Production	0		17-Dec-20*	EPA Compliance Date for Engineering Design - ND Oxygen Production																																	
Permitting					Permitting																																	
ND10400	Permitting - ND Oxygen Production	60	28-Jun-20	26-Aug-20	Permitting - ND Oxygen Production																																	
ND70940	EPA Start Date for Permitting - ND Oxygen Production	0	18-Dec-20*		EPA Start Date for Permitting - ND Oxygen Production																																	
ND70450	EPA Compliance Date for Permitting - ND Oxygen Production	0		17-Dec-21*	EPA Compliance Date for Permitting - ND Oxygen Production																																	
Procurement					Procurement																																	
ND71400	Internal Bid Package Review - ND Oxygen Production	30	29-Apr-20	28-May-20	Internal Bid Package Review - ND Oxygen Production																																	
ND21280	RDBS sent to ISD - ND Oxygen Production	0	29-May-20		RDBS sent to ISD - ND Oxygen Production																																	
ND21290	Submit/Approve SBD Goals and Request to Advertise - ND Oxygen Production	30	29-May-20	27-Jun-20	Submit/Approve SBD Goals and Request to Advertise - ND Oxygen Production																																	
ND21300	Advertise RDBS - ND Oxygen Production	0	28-Jun-20		Advertise RDBS - ND Oxygen Production																																	
ND71950	Request for Qualifications - ND Oxygen Production	90	28-Jun-20	25-Sep-20	Request for Qualifications - ND Oxygen Production																																	
ND71960	Qualifications Package Due - ND Oxygen Production	0	26-Sep-20		Qualifications Package Due - ND Oxygen Production																																	
ND71970	Qualifications Review Period - ND Oxygen Production	90	26-Sep-20	24-Dec-20	Qualifications Review Period - ND Oxygen Production																																	
ND71980	Shortlist Published - ND Oxygen Production	0	25-Dec-20		Shortlist Published - ND Oxygen Production																																	
ND21310	Request for Proposals - ND Oxygen Production	90	25-Dec-20	24-Mar-21	Request for Proposals - ND Oxygen Production																																	
ND21320	Proposals Due - ND Oxygen Production	0	25-Mar-21		Proposals Due - ND Oxygen Production																																	
ND21330	Proposal Review Period - ND Oxygen Production	30	25-Mar-21	23-Apr-21	Proposal Review Period - ND Oxygen Production																																	
ND21340	Award Recommendation - ND Oxygen Production	0		23-Apr-21	Award Recommendation - ND Oxygen Production																																	
ND71990	Contract Negotiations - ND Oxygen Production	80	24-Apr-21	12-Jul-21	Contract Negotiations - ND Oxygen Production																																	
ND10450	Procurement - ND Oxygen Production	550	29-May-20	29-Nov-21	Procurement - ND Oxygen Production																																	
ND21350	Final Approvals (BCC, Mayor, Risk Mgmt.) - ND Oxygen Production	140	13-Jul-21	29-Nov-21	Final Approvals (BCC, Mayor, Risk Mgmt.) - ND Oxygen Production																																	
ND70930	EPA Start Date for Procurement - ND Oxygen Production	0	18-Dec-21*		EPA Start Date for Procurement - ND Oxygen Production																																	
ND70460	EPA Compliance Date for Procurement - ND Oxygen Production	0		17-Dec-22*	EPA Compliance Date for Procurement - ND Oxygen Production																																	
Design-Build					Design-Build																																	
ND10488	Contractor Notice to Proceed (NTP) - ND Oxygen Production	0	30-Nov-21		Contractor Notice to Proceed (NTP) - ND Oxygen Production																																	
ND70950	EPA Start Date for Construction - ND Oxygen Production	0	18-Dec-22*		EPA Start Date for Construction - ND Oxygen Production																																	
ND10490	Construction - ND Oxygen Production	975	30-Nov-21	31-Jul-24	Construction - ND Oxygen Production																																	
ND71830	Commissioning - ND Oxygen Production	30	02-Jul-24	31-Jul-24	Commissioning - ND Oxygen Production																																	
ND10500	Substantial Completion (CD Compliance Date 3/06/26) - ND Oxygen Production	0		31-Jul-24*	Substantial Completion (CD Compliance Date 3/06/26) - ND Oxygen Production																																	
ND40310	Project Closeout - ND Oxygen Production	90	01-Aug-24	29-Oct-24*	Project Closeout - ND Oxygen Production																																	
ND70470	EPA Compliance Date for Construction - ND Oxygen Production	0		06-Mar-26*	EPA Compliance Date for Construction - ND Oxygen Production																																	
Project Administration					Project Administration																																	
ND21530	WASD Project Administration - ND Oxygen Production	2273	01-Jun-18 A	29-Oct-24	WASD Project Administration - ND Oxygen Production																																	
3.05 Secondary Clarifiers					3.05 Secondary Clarifiers																																	
Engineering Design					Engineering Design																																	
ND10300	Engineering Design - ND Secondary Clarifiers	925	28-Aug-14 A	09-Mar-17 A	Engineering Design - ND Secondary Clarifiers																																	
ND70960	EPA Start Date for Engineering Design - ND Secondary Clarifiers	0	31-Dec-18 A		EPA Start Date for Engineering Design - ND Secondary Clarifiers																																	
ND70480	EPA Compliance Date for Engineering Design - ND Secondary Clarifiers	0		12-Nov-20*	EPA Compliance Date for Engineering Design - ND Secondary Clarifiers																																	
Permitting					Permitting																																	
ND10360	Permitting - ND Secondary Clarifiers	945	27-Mar-15 A	10-Oct-17 A	Permitting - ND Secondary Clarifiers																																	
ND70970	EPA Start Date for Permitting - ND Secondary Clarifiers	0	13-Nov-20*		EPA Start Date for Permitting - ND Secondary Clarifiers																																	
ND70490	EPA Compliance Date for Permitting - ND Secondary Clarifiers	0		11-May-21*	EPA Compliance Date for Permitting - ND Secondary Clarifiers																																	
Procurement					Procurement																																	
ND10410	Procurement - ND Secondary Clarifiers	1393	03-Oct-14 A	16-Dec-18 A	Procurement - ND Secondary Clarifiers																																	
ND70980	EPA Start Date for Procurement - ND Secondary Clarifiers	0	06-Feb-21*		EPA Start Date for Procurement - ND Secondary Clarifiers																																	
ND70500	EPA Compliance Date for Procurement - ND Secondary Clarifiers	0		05-Feb-22*	EPA Compliance Date for Procurement - ND Secondary Clarifiers																																	
Construction					Construction																																	
ND70990	EPA Start Date for Construction - ND Secondary Clarifiers	0	01-Dec-18 A		EPA Start Date for Construction - ND Secondary Clarifiers																																	
ND10470	Construction - ND Secondary Clarifiers	3311	19-Jan-15 A	14-Oct-22	Construction - ND Secondary Clarifiers																																	
ND10520	Substantial Completion (CD Compliance Date 8/24/27) - ND Secondary Clarifiers	0		14-Oct-22*	Substantial Completion (CD Compliance Date 8/24/27) - ND Secondary Clarifiers																																	
ND70510	EPA Compliance Date for Construction - ND Secondary Clarifiers	0		24-Aug-27*	EPA Compliance Date for Construction - ND Secondary Clarifiers																																	
3.05 (1) Secondary Clarifiers (Replace Mechanisms #1-10)					3.05 (1) Secondary Clarifiers (Replace Mechanisms #1-10)																																	
Engineering Design					Engineering Design																																	
ND20030	Engineering Design (BODR) - Replace Mechanisms #3, 6 & 8	142	28-Aug-14 A	16-Jan-15 A	Engineering Design (BODR) - Replace Mechanisms #3, 6 & 8																																	
ND20690	Engineering Design (BODR) - Replace Mechanisms #1, 2, 4, 5, 7, 9, & 10	122	04-Feb-15 A	05-Jun-15 A	Engineering Design (BODR) - Replace Mechanisms #1, 2, 4, 5, 7, 9, & 10																																	
Procurement					Procurement																																	
ND20050	Procurement - Replace Mechanisms #3, 6 & 8	106	03-Oct-14 A	16-Jan-15 A	Procurement - Replace Mechanisms #3, 6 & 8																																	
ND20700	Procurement - Replace Mechanisms #1, 2, 4, 5, 7, 9, & 10	230	04-Feb-15 A	21-Sep-15 A	Procurement - Replace Mechanisms #1, 2, 4, 5, 7, 9, & 10																																	
Construction					Construction																																	
ND20060	Construction - Replace Mechanisms #3, 6 & 8	316	19-Jan-15 A	30-Nov-15 A	Construction - Replace Mechanisms #3, 6 & 8																																	
ND20710	Construction - Replace Mechanisms #1, 2, 4, 5, 7, 9, & 10	556	22-Sep-15 A	30-Mar-17 A	Construction - Replace Mechanisms #1, 2, 4, 5, 7, 9, & 10																																	

Activity ID	Activity Name	Original Duration	Start	Finish	2018				2019				2020				2021				2022				2023				2024				2025				2026	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
ND20070	Substantial Completion (CD Compliance Date 8/24/27) - Replace Mechanisms #1-10	0		30-Mar-17 A	pletion (CD Compliance Date 8/24/27) - Replace Mechanisms #1-10																																	
ND70730	Project Closeout - Replace Mechanisms #1-10	212	31-Mar-17 A	29-Jun-17 A	Project Administration																																	
Project Administration																																						
ND21540	WASD Project Administration - Replace Mechanisms #1-10	1158	28-Aug-14 A	29-Jun-17 A	ect Administration - Replace Mechanisms #1-10																																	
3.05 (2) Secondary Clarifiers (Remaining Scope of Work)					15-Nov-22, 3,05 (2) Secondary Clarifiers (Remaining Scope of Work)																																	
Pre-Design																																						
ND11405	Pre-Design - ND Secondary Clarifiers (Remaining Scope)	97	23-May-14 A	27-Aug-14 A																																		
Engineering Design																																						
ND20320	Basis of Design Report (BODR) - ND Secondary Clarifiers	97	23-May-14 A	27-Aug-14 A																																		
ND20330	Negotiate Scope & Cost with MWH - ND Secondary Clarifiers (Remaining Scope)	924	28-Aug-14 A	09-Mar-17 A																																		
ND20335	Issue Task Authorization - ND Secondary Clarifiers (Remaining Scope)	216	28-Aug-14 A	31-Mar-15 A																																		
ND20340	30% Design Submittal - ND Secondary Clarifiers (Remaining Scope)	233	23-Feb-15 A	13-Oct-15 A																																		
ND20350	30% Design Review - ND Secondary Clarifiers (Remaining Scope)	0	18-Dec-15 A																																			
ND20360	60% Design Submittal - ND Secondary Clarifiers (Remaining Scope)	161	18-Dec-15 A	26-May-16 A																																		
ND20370	60% Design Review - ND Secondary Clarifiers (Remaining Scope)	7	27-May-16 A	02-Jun-16 A																																		
ND20380	100% Design Submittal - ND Secondary Clarifiers (Remaining Scope)	147	03-Jun-16 A	27-Oct-16 A																																		
ND20090	Engineering Design - ND Secondary Clarifiers (Remaining Scope)	12	28-Oct-16 A	08-Nov-16 A																																		
ND40490	100% Design Review/Permit Ready Submittal - ND Secondary Clarifiers (Remaining Scope)	93	09-Nov-16 A	09-Feb-17 A																																		
Permitting																																						
ND70240	FDEP Permit - ND Secondary Clarifiers (Remaining Scope)	925	28-Aug-14 A	09-Mar-17 A																																		
ND70250	RER Permit - ND Secondary Clarifiers (Remaining Scope)	28	10-Feb-17 A	09-Mar-17 A																																		
ND70270	Fire Department Permit - ND Secondary Clarifiers (Remaining Scope)	945	27-Mar-15 A	10-Oct-17 A																																		
ND20100	Permitting - ND Secondary Clarifiers (Remaining Scope)	693	27-Mar-15 A	16-Feb-17 A																																		
ND70260	City of North Miami Permit - ND Secondary Clarifiers (Remaining Scope)	134	15-Jun-17 A	23-Jun-17 A																																		
Procurement																																						
ND71560	GMOU submittal and approval - ND Secondary Clarifiers (Remaining Scope)	134	15-Jun-17 A	24-Aug-17 A																																		
ND71410	Internal Bid Package Review - ND Secondary Clarifiers (Remaining Scope)	134	15-Jun-17 A	24-Aug-17 A																																		
ND20960	Design Documents Sent to Procurement - ND Secondary Clarifiers (Remaining Scope)	945	27-Mar-15 A	10-Oct-17 A																																		
ND20970	Submit/Approve SBD Goals and Request to Advertise - ND Secondary Clarifiers (Remaining Scope)	186	24-Apr-17 A	10-Oct-17 A																																		
ND20980	Advertise Bid Package - ND Secondary Clarifiers (Remaining Scope)	586	26-May-17 A	16-Dec-18 A																																		
ND20990	Bid Solicitation Period - ND Secondary Clarifiers (Remaining Scope)	21	26-May-17 A	15-Jun-17 A																																		
ND21000	Bids Due - ND Secondary Clarifiers (Remaining Scope)	14	08-Nov-17 A	14-Dec-17 A																																		
ND21010	Bid Review Period - ND Secondary Clarifiers (Remaining Scope)	0	15-Dec-17 A																																			
ND21020	Award Recommendation - ND Secondary Clarifiers (Remaining Scope)	60	01-Dec-17 A	21-Feb-18 A																																		
ND20110	Procurement - ND Secondary Clarifiers (Remaining Scope)	60	01-Dec-17 A	21-Feb-18 A																																		
ND21030	Final Approvals (BCC, Mayor, Risk Mgmt.) - ND Secondary Clarifiers (Remaining Scope)	256	15-Dec-17 A	16-Dec-18 A																																		
Construction																																						
ND20118	Contractor Notice to Proceed (NTP) - ND Secondary Clarifiers (Remaining Scope)	60	03-Oct-18 A	16-Dec-18 A																																		
ND20120	Construction - ND Secondary Clarifiers (Remaining Scope)	256	15-Dec-17 A	16-Dec-18 A																																		
ND71840	Commissioning - ND Secondary Clarifiers	60	03-Oct-18 A	16-Dec-18 A																																		
ND20130	3.05 (2) Substantial Completion (CD Compliance Date 8/24/27) - ND Secondary Clarifiers (Remaining Scope)	0		14-Oct-22*																																		
ND40320	Project Closeout - ND Secondary Clarifiers	0		14-Oct-22*																																		
Project Administration																																						
ND21550	WASD Project Administration - ND Secondary Clarifiers	3545	28-Aug-14 A	15-Nov-22																																		
3.06 Disinfection					09-Sep-20, 3.06 Disinfection																																	
Pre-Design																																						
ND20010	Pre-Design - ND Disinfection	114	16-Feb-15 A	10-Jun-15 A																																		
Engineering Design																																						
ND20000	Review Existing Design for Storm Surge & Code Changes - ND Disinfection	115	16-Feb-15 A	10-Jun-15 A																																		
ND20020	Revise Design for Code and Storm Surge Changes - ND Disinfection	1081	21-Apr-14 A	06-Apr-17 A																																		
ND10190	Engineering Design - ND Disinfection	253	21-Apr-14 A	29-Dec-14 A																																		
ND71000	EPA Start Date for Engineering Design - ND Disinfection	267	11-Jun-15 A	03-Mar-16 A																																		
ND70520	EPA Compliance Date for Engineering Design - ND Disinfection	826	21-Apr-14 A	24-Jul-16 A																																		
Permitting																																						
ND70770	City of N. Miami Permit - ND Disinfection	0	01-Feb-17 A	06-Apr-17 A																																		
ND71010	EPA Start Date for Permitting - ND Disinfection	901	25-Jul-16 A	22-Feb-19 A																																		
ND70780	DERM Permit - ND Disinfection	22	25-Jul-16 A	15-Aug-16 A																																		
ND70530	EPA Compliance Date for Permitting - ND Disinfection	0	07-Apr-17 A																																			
ND71880	FDEP Permit - ND Disinfection	443	15-Aug-16 A	22-Nov-17 A																																		
ND10200	Permitting - ND Disinfection	0	06-Apr-18 A																																			
ND71870	Bldg Dept, RER, Fire Dept - City of North Miami Permit - ND Disinfection	43	31-Oct-18 A	13-Nov-18 A																																		
Procurement																																						
ND71590	GMOU submittal and approval - ND Disinfection	464	25-Jul-16 A	22-Feb-19 A																																		
ND71420	Internal Bid Package Review - ND Disinfection	112	23-Aug-18 A	22-Feb-19 A																																		
ND21040	Design Documents Sent to Procurement - ND Disinfection	634	04-Aug-17 A	06-Apr-19 A																																		
ND21050	Submit/Approve SBD Goals and Request to Advertise - ND Disinfection	26	04-Aug-17 A	29-Aug-17 A																																		
ND21060	Advertise Bid Package - ND Disinfection	28	09-Aug-17 A	05-Sep-17 A																																		
ND21070	Bid Solicitation Period - ND Disinfection	28	09-Aug-17 A	05-Sep-17 A																																		
ND21080	Bids Due - ND Disinfection	0	05-Jan-18 A	07-Mar-18 A																																		
ND71020	EPA Start Date for Procurement - ND Disinfection	60	05-Jan-18 A	04-Jan-18 A																																		
ND21090	Bid Review Period - ND Disinfection	0	08-Mar-18 A																																			
ND21100	Award Recommendation - ND Disinfection	60	08-Mar-18 A	30-Aug-18 A																																		
ND10260	Procurement - ND Disinfection	0	08-Mar-18 A	30-Aug-18 A																																		
ND21110	Final Approvals (BCC, Mayor, Risk Mgmt.) - ND Disinfection	227	21-Nov-17 A	10-Sep-18 A																																		

Activity ID	Activity Name	Original Duration	Start	Finish	2018				2019				2020				2021				2022				2023				2024				2025				2026			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
ND21580	WASD Project Administration - ND Plant Wide Electrical	2857	01-May-14 A	11-Oct-21	WASD Project Administration - ND Plant Wide Electrical																																			
3.08 (1) - NDWWTP General Electrical In-house Construction (Feeders 1-2)					Critical In-house Construction (Feeders 1-2)																																			
Engineering Design					Engineering Design																																			
ND20470	Engineering Design - Electrical Feeders 1-2	400	01-May-14 A	05-Jun-15 A	Engineering Design - Electrical Feeders 1-2																																			
Permitting					Permitting																																			
ND70230	Permitting - Electrical Feeders 1-2	35	01-May-15 A	05-Jun-15 A	Permitting - Electrical Feeders 1-2																																			
Procurement					Procurement																																			
ND40520	Procurement - Electrical Feeders 1-2	202	12-Mar-15 A	30-Sep-15 A	Procurement - Electrical Feeders 1-2																																			
Construction					Construction																																			
ND21460	Construction - Electrical Feeders 1-2	106	01-Oct-15 A	15-Jan-16 A	Construction - Electrical Feeders 1-2																																			
Project Administration					Project Administration																																			
ND71740	WASD Project Administration - Electrical Feeders 1-2	107	01-Oct-15 A	15-Jan-16 A	WASD Project Administration - Electrical Feeders 1-2																																			
3.08 (2) - Electrical Feeders 3-6 (Project 3.01)					06-Dec-17 A, 3.08 (2) - Electrical Feeders 3-6 (Project 3.01)																																			
Engineering Design					Engineering Design																																			
ND70180	Engineering Design - Electrical Feeders 3-6 (Project 3.01)	400	01-May-14 A	05-Jun-15 A	Engineering Design - Electrical Feeders 3-6 (Project 3.01)																																			
Permitting					Permitting																																			
ND70190	Permitting - Electrical Feeders 3-6 (Project 3.01)	35	01-May-15 A	05-Jun-15 A	Permitting - Electrical Feeders 3-6 (Project 3.01)																																			
Procurement					Procurement																																			
ND40530	Procurement - Electrical Feeders 3-6 (Project 3.01)	207	08-Apr-15 A	01-Nov-15 A	Procurement - Electrical Feeders 3-6 (Project 3.01)																																			
Construction					Construction																																			
ND21470	Construction - Electrical Feeders 3-6 (Project 3.01)	795	02-Nov-15 A	06-Dec-17 A	Construction - Electrical Feeders 3-6 (Project 3.01)																																			
Project Administration					Project Administration																																			
ND71750	WASD Project Administration - Electrical Feeders 3-6 (Project 3.01)	1345	01-May-14 A	06-Dec-17 A	WASD Project Administration - Electrical Feeders 3-6 (Project 3.01)																																			
3.08 (3) - Electrical Feeders 7-8 (Project 3.04)					23-Sep-19 A, 3.08 (3) - Electrical Feeders 7-8 (Project 3.04)																																			
Engineering Design					Engineering Design																																			
ND70140	Child Project Deleted (Scope considered under CD 3.03 / 3.04)	0	23-Sep-19 A	23-Sep-19 A	Child Project Deleted (Scope considered under CD 3.03 / 3.04)																																			
3.08 (4) - Electrical Feeders 9-14					09-Jan-22, 3.08 (4) - Electrical Feeders 9-14																																			
Engineering Design					Engineering Design																																			
ND40500	Decision Date for Remaining Feeders - Electrical Feeders 9-10, 13-14	0	18-Oct-18 A	19-Sep-19 A	Decision Date for Remaining Feeders - Electrical Feeders 9-10, 13-14																																			
ND71210	Pre-Design - Electrical Feeders 9-10, 13-14	60	18-Oct-18 A	19-Sep-19 A	Pre-Design - Electrical Feeders 9-10, 13-14																																			
ND71890	Engineering Design - Electrical Feeders 9-10, 13-14	77	20-Sep-19 A	20-Jan-20	Engineering Design - Electrical Feeders 9-10, 13-14																																			
Permitting					Permitting																																			
ND71220	Permitting - Electrical Feeders 9-10, 13-14	90	21-Jan-20	19-Apr-20	Permitting - Electrical Feeders 9-10, 13-14																																			
Procurement					Procurement																																			
ND40550	Procurement - Electrical Feeders 9-10, 13-14	120	20-Apr-20	17-Aug-20	Procurement - Electrical Feeders 9-10, 13-14																																			
Construction					Construction																																			
ND71600	Construction - Electrical Feeders 11&12	100	10-Jan-17 A	19-Apr-17 A	Construction - Electrical Feeders 11&12																																			
ND71610	Construction - Electrical Feeders 9-14	1839	10-Jan-17 A	11-Oct-21	Construction - Electrical Feeders 9-14																																			
ND21490	Construction - Electrical Feeders 9-10, 13-14	420	18-Aug-20	11-Oct-21	Construction - Electrical Feeders 9-10, 13-14																																			
ND71860	Commissioning - Electrical Feeders 9-14	30	12-Sep-21	11-Oct-21	Commissioning - Electrical Feeders 9-14																																			
ND40350	Project Closeout - Electrical Feeders 9-14	90	12-Oct-21	09-Jan-22*	Project Closeout - Electrical Feeders 9-14																																			
Project Administration					Project Administration																																			
ND71770	WASD Project Administration - Electrical Feeders 9-14	1299	10-Jan-17 A	11-Oct-21	WASD Project Administration - Electrical Feeders 9-14																																			
3.09 Flood Mitigation					04-Apr-14 A, 3.09 Flood Mitigation																																			
Engineering Design					Engineering Design																																			
ND71120	EPA Start Date for Engineering Design - ND Flood Mitigation	0	21-Apr-14 A	30-May-15 A	EPA Start Date for Engineering Design - ND Flood Mitigation																																			
ND20650	Flood Mitigation Interim Solution Letter - ND Flood Mitigation	0	24-Nov-14 A	30-May-15 A	Flood Mitigation Interim Solution Letter - ND Flood Mitigation																																			
ND10030	Engineering Design - ND Flood Mitigation	422	04-Apr-14 A	30-May-15 A	Engineering Design - ND Flood Mitigation																																			
ND70640	EPA Compliance Date for Engineering Design - ND Flood Mitigation	0	04-Apr-14 A	30-May-15 A	EPA Compliance Date for Engineering Design - ND Flood Mitigation																																			
Permitting					Permitting																																			
ND71130	EPA Start Date for Permitting - ND Flood Mitigation	0	27-Nov-14 A	26-Nov-15 A	EPA Start Date for Permitting - ND Flood Mitigation																																			
ND10060	Permitting - ND Flood Mitigation	1	01-May-15 A	01-May-15 A	Permitting - ND Flood Mitigation																																			
ND70650	EPA Compliance Date for Permitting - ND Flood Mitigation	0	01-May-15 A	26-Nov-15 A	EPA Compliance Date for Permitting - ND Flood Mitigation																																			
Procurement					Procurement																																			
ND71140	EPA Start Date for Procurement - ND Flood Mitigation	0	27-Nov-15 A	25-Nov-16 A	EPA Start Date for Procurement - ND Flood Mitigation																																			
ND10110	Procurement - ND Flood Mitigation	421	01-May-15 A	24-Jun-16 A	Procurement - ND Flood Mitigation																																			
ND70660	EPA Compliance Date for Procurement - ND Flood Mitigation	0	01-May-15 A	25-Nov-16 A	EPA Compliance Date for Procurement - ND Flood Mitigation																																			
Construction					Construction																																			
ND10160	Construction - ND Flood Mitigation	854	01-May-15 A	31-Aug-17 A	Construction - ND Flood Mitigation																																			
ND10220	Substantial Completion (CD Compliance Date 8/13/17) - ND Flood Mitigation	0	01-May-15 A	24-Jun-16 A	Substantial Completion (CD Compliance Date 8/13/17) - ND Flood Mitigation																																			
ND71150	EPA Start Date for Construction - ND Flood Mitigation	0	26-Nov-16 A	31-Aug-17 A	EPA Start Date for Construction - ND Flood Mitigation																																			
ND70670	EPA Compliance Date for Construction - ND Flood Mitigation	0	01-May-15 A	31-Aug-17 A	EPA Compliance Date for Construction - ND Flood Mitigation																																			
Project Administration					Project Administration																																			
ND21590	WASD Project Administration - ND Flood Mitigation	812	04-Apr-14 A	24-Jun-16 A	WASD Project Administration - ND Flood Mitigation																																			
3.10 Yard Piping Replacement					04-Dec-21, 3.10 Yard Piping Replacement																																			
Pre-Design					Pre-Design																																			
ND11435	Pre-Design - ND Secondary Clarifiers	1	06-Apr-15 A	06-Apr-15 A	Pre-Design - ND Secondary Clarifiers																																			
Engineering Design					Engineering Design																																			
ND10100	Engineering Design - ND Yard Piping Replacement	832	06-Apr-15 A	16-Jul-17 A	Engineering Design - ND Yard Piping Replacement																																			
ND71160	EPA Start Date for Engineering Design - ND Yard Piping Replacement	0	06-Apr-15 A	06-Apr-15 A	EPA Start Date for Engineering Design - ND Yard Piping Replacement																																			
ND70680	EPA Compliance Date for Engineering Design - ND Yard Piping Replacement	0	06-Apr-15 A	16-Jul-17 A	EPA Compliance Date for Engineering Design - ND Yard Piping Replacement																																			
Permitting					Permitting																																			
ND10150	Permitting - ND Yard Piping Replacement	1031	06-Apr-15 A	12-Jan-18 A	Permitting - ND Yard Piping Replacement																																			
ND71170	EPA Start Date for Permitting - ND Yard Piping Replacement	1	06-Apr-15 A	06-Apr-15 A	EPA Start Date for Permitting - ND Yard Piping Replacement																																			
ND70690	EPA Compliance Date for Permitting - ND Yard Piping Replacement	0	17-Jul-17 A	12-Jan-18 A	EPA Compliance Date for Permitting - ND Yard Piping Replacement																																			
Procurement					Procurement																																			
ND21590	WASD Project Administration - ND Flood Mitigation	1305	05-Apr-15 A	09-Oct-18 A	WASD Project Administration - ND Flood Mitigation																																			

Activity ID	Activity Name	Original Duration	Start	Finish	Timeline (2018-2026)																							
					2018	2019	2020	2021	2022	2023	2024	2025	2026															
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
ND10240	Procurement - ND Yard Piping Replacement	2	05-Apr-15 A	06-Apr-15 A	Procurement - ND Yard Piping Replacement																							
ND71180	EPA Start Date for Procurement - ND Yard Piping Replacement	0	13-Jan-18 A		EPA Start Date for Procurement - ND Yard Piping Replacement																							
ND70700	EPA Compliance Date for Procurement - ND Yard Piping Replacement	0		09-Oct-18 A	EPA Compliance Date for Procurement - ND Yard Piping Replacement																							
Construction		2386	25-May-15 A	04-Dec-21	Construction - ND Yard Piping Replacement																							
ND20870	Rehab 1st 84" Pipe - ND Yard Piping Replacement	123	25-May-15 A	24-Sep-15 A	Rehab 1st 84" Pipe - ND Yard Piping Replacement																							
ND10290	Construction - ND Yard Piping Replacement	366	25-May-15 A	24-May-16 A	Construction - ND Yard Piping Replacement																							
ND20860	Rehab 2nd 84" Pipe - ND Yard Piping Replacement	83	03-Mar-16 A	24-May-16 A	Rehab 2nd 84" Pipe - ND Yard Piping Replacement																							
ND10440	Substantial Completion (CD Compliance Date 12/04/21) - ND Yard Piping Replacement	0		24-May-16 A	Substantial Completion (CD Compliance Date 12/04/21) - ND Yard Piping Replacement																							
ND71190	EPA Start Date for Construction - ND Yard Piping Replacement	0	10-Oct-18 A		EPA Start Date for Construction - ND Yard Piping Replacement																							
ND70710	EPA Compliance Date for Construction - ND Yard Piping Replacement	0		04-Dec-21*	EPA Compliance Date for Construction - ND Yard Piping Replacement																							
Project Administration		414	06-Apr-15 A	24-May-16 A	Project Administration - ND Yard Piping Replacement																							
ND21600	WASD Project Administration - ND Secondary Clarifiers	415	06-Apr-15 A	24-May-16 A	WASD Project Administration - ND Secondary Clarifiers																							
3.11 SCADA RTU Upgrades		540	30-Sep-13 A	24-Mar-15 A	3.11 SCADA RTU Upgrades																							
Construction		540	30-Sep-13 A	24-Mar-15 A	Construction - ND SCADA RTU Upgrades																							
ND71200	EPA Start Date for Construction - ND SCADA RTU Upgrades	0	01-Oct-13 A		EPA Start Date for Construction - ND SCADA RTU Upgrades																							
ND10020	Construction - ND SCADA RTU Upgrades	423	30-Sep-13 A	26-Nov-14 A	Construction - ND SCADA RTU Upgrades																							
ND10070	Substantial Completion (CD Compliance Date 3/24/15) - ND SCADA RTU Upgrades	0		26-Nov-14 A	Substantial Completion (CD Compliance Date 3/24/15) - ND SCADA RTU Upgrades																							
ND70720	EPA Compliance Date for Construction - ND SCADA RTU Upgrades	0		24-Mar-15 A	EPA Compliance Date for Construction - ND SCADA RTU Upgrades																							
Project Administration		422	30-Sep-13 A	26-Nov-14 A	Project Administration - ND SCADA RTU Upgrades																							
ND71780	WASD Project Administration - ND SCADA RTU Upgrades	423	30-Sep-13 A	26-Nov-14 A	WASD Project Administration - ND SCADA RTU Upgrades																							
4. Wastewater Collection & Transmission Line		5841	01-Oct-11 A	27-Sep-27	4. Wastewater Collection & Transmission Line																							
4.01 Collection System I/ Repairs		5110	01-Oct-13 A	27-Sep-27	4.01 Collection System I/ Repairs																							
Construction		5110	01-Oct-13 A	27-Sep-27	Construction - Collection System I/ Repairs																							
CT71230	EPA Start Date for Construction - Collection System I/ Repair	0	01-Oct-13 A		EPA Start Date for Construction - Collection System I/ Repair																							
CT10070	Construction - Collection System I/ Repair	4161	01-Oct-13 A	27-Sep-27	Construction - Collection System I/ Repair																							
CT10430	Substantial Completion (CD Compliance Date 9/27/27) - Collection System I/ Repair	0		27-Sep-27*	Substantial Completion (CD Compliance Date 9/27/27) - Collection System I/ Repair																							
CT50590	EPA Compliance Date for Construction - Collection System I/ Repair	0		27-Sep-27*	EPA Compliance Date for Construction - Collection System I/ Repair																							
4.01 (1.0) - PMCM CIPP I/ Repairs		3673	01-Feb-15 A	31-Jul-18 A	4.01 (1.0) - PMCM CIPP I/ Repairs																							
Engineering Design		1065	01-Feb-15 A	15-Aug-17 A	Engineering Design - PMCM CIPP I/ Repairs																							
CT30000	CIPP Specifications & Scope to MDWASD - 2015/2016 Fiscal Year	18	01-Feb-15 A	18-Feb-15 A	CIPP Specifications & Scope to MDWASD - 2015/2016 Fiscal Year																							
CT30090	CIPP Specifications & Scope to MDWASD - 2016/2017 Fiscal Year (PO 168)	55	01-May-16 A	24-Jun-16 A	CIPP Specifications & Scope to MDWASD - 2016/2017 Fiscal Year (PO 168)																							
CT30220	CIPP Specifications & Scope to MDWASD - 2017/2018 Fiscal Year	245	01-May-17 A	15-Aug-17 A	CIPP Specifications & Scope to MDWASD - 2017/2018 Fiscal Year																							
Procurement		730	01-Feb-15 A	31-Jan-17 A	Procurement - PMCM CIPP I/ Repairs																							
CT30010	CIPP Contractor Procurement - 2015/2016 Fiscal Year	303	01-Feb-15 A	30-Nov-15 A	CIPP Contractor Procurement - 2015/2016 Fiscal Year																							
CT30120	CIPP Contractor Procurement - 2016/2017 Fiscal Year (RPQ PO 193)	183	02-Aug-16 A	31-Jan-17 A	CIPP Contractor Procurement - 2016/2017 Fiscal Year (RPQ PO 193)																							
Construction		968	07-Dec-15 A	31-Jul-18 A	Construction - PMCM CIPP I/ Repairs																							
CT30060	CIPP Contract (Construction) - 2015/2016 Fiscal Year (PO 168)	446	07-Dec-15 A	24-Feb-17 A	CIPP Contract (Construction) - 2015/2016 Fiscal Year (PO 168)																							
CT30150	CIPP Contract (Construction) - 2016/2017 Fiscal Year (PO 193)	365	01-Aug-17 A	31-Jul-18 A	CIPP Contract (Construction) - 2016/2017 Fiscal Year (PO 193)																							
Project Administration		3673	01-Feb-15 A	31-Jul-18 A	Project Administration - PMCM CIPP I/ Repairs																							
CT80720	WASD Project Administration - PMCM CIPP I/ Repairs	3673	01-Feb-15 A	31-Jul-18 A	WASD Project Administration - PMCM CIPP I/ Repairs																							
4.01 (1.1) - PMCM Dig & Replace I/ Repairs		3624	01-Mar-15 A	22-Jul-18 A	4.01 (1.1) - PMCM Dig & Replace I/ Repairs																							
Engineering Design		1037	01-Mar-15 A	15-Aug-17 A	Engineering Design - PMCM Dig & Replace I/ Repairs																							
CT30020	Dig & Replace Specifications & Scope to MDWASD - 2015/2016 Fiscal Year	10	01-Mar-15 A	10-Mar-15 A	Dig & Replace Specifications & Scope to MDWASD - 2015/2016 Fiscal Year																							
CT30100	Dig & Replace Specifications & Scope to MDWASD - 2016/2017 Fiscal Year (T2229)	93	01-May-16 A	01-Aug-16 A	Dig & Replace Specifications & Scope to MDWASD - 2016/2017 Fiscal Year (T2229)																							
CT30180	Dig & Replace Specifications & Scope to MDWASD - 2017/2018 Fiscal Year	185	30-Jun-17 A	15-Aug-17 A	Dig & Replace Specifications & Scope to MDWASD - 2017/2018 Fiscal Year																							
Procurement		687	01-Mar-15 A	16-Jan-17 A	Procurement - PMCM Dig & Replace I/ Repairs																							
CT38000	Dig & Replace Contractor B Procurement - 2015/2016 Fiscal Year	232	01-Mar-15 A	18-Oct-15 A	Dig & Replace Contractor B Procurement - 2015/2016 Fiscal Year																							
CT30040	Dig & Replace Contractor A Procurement - 2015/2016 Fiscal Year	239	01-Mar-15 A	25-Oct-15 A	Dig & Replace Contractor A Procurement - 2015/2016 Fiscal Year																							
CT38010	Dig & Replace Contractor C Procurement - 2015/2016 Fiscal Year	324	01-Mar-15 A	18-Jan-16 A	Dig & Replace Contractor C Procurement - 2015/2016 Fiscal Year																							
CT30130	Dig & Replace Contractor Procurement - 2016/2017 Fiscal Year (T2229)	168	02-Aug-16 A	16-Jan-17 A	Dig & Replace Contractor Procurement - 2016/2017 Fiscal Year (T2229)																							
Construction		981	19-Oct-15 A	22-Jul-18 A	Construction - PMCM Dig & Replace I/ Repairs																							
CT38020	Dig & Replace Contract B (Construction) - 2015/2016 Fiscal Year	366	19-Oct-15 A	18-Oct-16 A	Dig & Replace Contract B (Construction) - 2015/2016 Fiscal Year																							
CT30070	Dig & Replace Contract A (Construction) - 2015/2016 Fiscal Year	366	26-Oct-15 A	25-Oct-16 A	Dig & Replace Contract A (Construction) - 2015/2016 Fiscal Year																							
CT38030	Dig & Replace Contract C (Construction) - 2015/2016 Fiscal Year	365	18-Jan-16 A	16-Jan-17 A	Dig & Replace Contract C (Construction) - 2015/2016 Fiscal Year																							
CT30160	Dig & Replace Contract Countywide (Construction) - 2016/2017 Fiscal Year (T2229)	365	26-Jun-17 A	22-Jul-18 A	Dig & Replace Contract Countywide (Construction) - 2016/2017 Fiscal Year (T2229)																							
Project Administration		3624	01-Mar-15 A	25-Jan-18 A	Project Administration - PMCM Dig & Replace I/ Repairs																							
CT80730	WASD Project Administration - PMCM Dig & Replace I/ Repairs	3624	01-Mar-15 A	25-Jan-18 A	WASD Project Administration - PMCM Dig & Replace I/ Repairs																							
4.01 (1.2) - PMCM SSES I/		1462	01-Mar-15 A	28-Nov-17 A	4.01 (1.2) - PMCM SSES I/																							
Engineering Design		536	01-Mar-15 A	18-Aug-16 A	Engineering Design - PMCM SSES I/																							
CT30030	SSES Specifications & Scope to MDWASD - 2015/2016 Fiscal Year	10	01-Mar-15 A	10-Mar-15 A	SSES Specifications & Scope to MDWASD - 2015/2016 Fiscal Year																							
CT30110	SSES Specifications & Scope to MDWASD - 2016/2017 Fiscal Year (T2231)	74	06-Jun-16 A	18-Aug-16 A	SSES Specifications & Scope to MDWASD - 2016/2017 Fiscal Year (T2231)																							
Procurement		726	01-Mar-15 A	24-Feb-17 A	Procurement - PMCM SSES I/																							
CT38040	SSES (CCTV) Procurement - 2015/2016 Fiscal Year	360	01-Mar-15 A	23-Feb-16 A	SSES (CCTV) Procurement - 2015/2016 Fiscal Year																							
CT30140	SSES Contractor Procurement - 2016/2017 Fiscal Year (T2231)	191	18-Aug-16 A	24-Feb-17 A	SSES Contractor Procurement - 2016/2017 Fiscal Year (T2231)																							
Construction		780	14-Mar-16 A	18-Aug-17 A	Construction - PMCM SSES I/																							
CT38050	SSES Construction (CCTV) - 2015/2016 Fiscal Year (T2101)	366	14-Mar-16 A	14-Mar-17 A	SSES Construction (CCTV) - 2015/2016 Fiscal Year (T2101)																							
CT30170	SSES Contract (Construction) - 2016/2017 Fiscal Year (T2231)	395	03-Apr-17 A	18-Aug-17 A	SSES Contract (Construction) - 2016/2017 Fiscal Year (T2231)																							
Project Administration		1462	01-Mar-15 A	28-Nov-17 A	Project Administration - PMCM SSES I/																							
CT80740	WASD Project Administration - PMCM SSES I/	1462	01-Mar-15 A	28-Nov-17 A	WASD Project Administration - PMCM SSES I/																							
4.01 (2) - PSIP Program I/ Repairs		1188	01-Oct-13 A	31-Dec-16 A	4.01 (2) - PSIP Program I/ Repairs																							
Construction		1188	01-Oct-13 A	31-Dec-16 A	Construction - PSIP Program I/ Repair (MDWASD)																							
CT22790	Construction - PSIP Program I/ Repair (MDWASD)	1188	01-Oct-13 A	31-Dec-16 A	Construction - PSIP Program I/ Repair (MDWASD)																							
Project Administration		1188	01-Oct-13 A	31-Dec-16 A	Project Administration - PSIP Program I/ Repair (MDWASD)																							
CT80750	WASD Project Administration - PSIP Program I/ Repair (MDWASD)	1188	01-Oct-13 A	31-Dec-16 A	WASD Project Administration - PSIP Program I/ Repair (MDWASD)																							
4.01 (3) - MDWASD CM Team I/ Repairs		3736	01-Oct-13 A	27-Sep-27	4.01 (3) - MDWASD CM Team I/ Repairs																							

Activity ID	Activity Name	Original Duration	Start	Finish	2018		2019				2020				2021				2022				2023				2024				2025		2026		
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
Construction					3736	01-Oct-13 A	27-Sep-27																												
CT33301	Construction -MDWASD CM Team I/ Repair (MDWASD)	3736	01-Oct-13 A	27-Sep-27																															
Project Administration					3736	01-Oct-13 A	27-Sep-27																												
CT80760	WASD Project Administration -MDWASD CM Team I/ Repair (MDWASD)	3736	01-Oct-13 A	27-Sep-27																															
4.01 (4) - WWCTLD WASD In-House I/ Repairs					3742	01-Oct-13 A	27-Sep-27																												
Construction					3742	01-Oct-13 A	27-Sep-27																												
CT33302	Construction - WWCTLD WASD In-House I/ Repair (MDWASD)	3742	01-Oct-13 A	27-Sep-27																															
Project Administration					3742	01-Oct-13 A	27-Sep-27																												
CT80770	WASD Project Administration - WWCTLD WASD In-House I/ Repair (MDWASD)	3742	01-Oct-13 A	27-Sep-27																															
4.02 Government Cut FM - Phase 1&2					730	01-Oct-11 A	30-Sep-13 A																												
Construction					730	01-Oct-11 A	30-Sep-13 A																												
CT71240	EPA Start Date for Construction - Government Cut FM Phase 1 & 2	0	01-Oct-12 A																																
CT10010	Construction - Government Cut FM Phase 1 & 2	731	01-Oct-11 A	30-Sep-13 A																															
CT10030	Substantial Completion (CD Compliance Date 9/30/13) - Government Cut FM Phase 1 & 2	0		30-Sep-13 A																															
CT50600	EPA Compliance Date for Construction - Government Cut FM Phase 1 & 2	0		30-Sep-13 A																															
Project Administration					730	01-Oct-11 A	30-Sep-13 A																												
CT80780	WASD Project Administration - Government Cut FM Phase 1 & 2	731	01-Oct-11 A	30-Sep-13 A																															
4.03 Government Cut FM - Phase 3					1529	30-Jan-13 A	08-Apr-17 A																												
Engineering Design					357	30-Jan-13 A	22-Jan-14 A																												
CT71250	EPA Start Date for Engineering Design - Government Cut FM Phase 3	0	30-Jan-13 A																																
CT10000	Engineering Design (DCP) - Government Cut FM Phase 3	358	30-Jan-13 A	22-Jan-14 A																															
CT50610	EPA Compliance Date for Engineering Design - Government Cut FM Phase 3	0		22-Jan-14 A																															
Procurement					798	28-Feb-13 A	07-May-15 A																												
CT10170	Procurement - Government Cut FM Phase 3	329	28-Feb-13 A	22-Jan-14 A																															
CT71260	EPA Start Date for Procurement - Government Cut FM Phase 3	0	08-May-14 A																																
CT50620	EPA Compliance Date for Procurement - Government Cut FM Phase 3	0		07-May-15 A																															
Design-Build					1171	23-Jan-14 A	08-Apr-17 A																												
CT71270	EPA Start Date for Construction - Government Cut FM Phase 3	0	08-May-15 A																																
CT10020	Permitting - Government Cut FM Phase 3	444	02-May-14 A	19-Jul-15 A																															
CT22250	Final Design (Design-Builder) - Government Cut FM Phase 3	589	23-Jan-14 A	03-Sep-15 A																															
CT10250	Construction - Government Cut FM Phase 3	916	23-May-14 A	23-Nov-16 A																															
CT10360	Substantial Completion (CD Compliance Date 4/08/17) - Government Cut FM Phase 3	0		23-Nov-16 A																															
CT40380	Project Closeout - Government Cut FM Phase 3	90	24-Nov-16 A	21-Feb-17 A																															
CT50630	EPA Compliance Date for Construction - Government Cut FM Phase 3	0		08-Apr-17 A																															
Project Administration					1483	30-Jan-13 A	21-Feb-17 A																												
CT38440	WASD Project Administration - Government Cut FM Phase 3	1484	30-Jan-13 A	21-Feb-17 A																															
4.04 North Dade 72 inch PCCP FM Rehabilitation					1783	13-May-13 A	05-Mar-18 A																												
Engineering Design					297	13-May-13 A	06-Mar-14 A																												
CT71290	EPA Start Date for Engineering Design - North Dade 72" PCCP FM Rehab	0	01-Oct-13 A																																
CT10050	Engineering Design (DCP) - North Dade 72" PCCP FM Rehab	279	13-May-13 A	15-Feb-14 A																															
CT50640	EPA Compliance Date for Engineering Design - North Dade 72" PCCP FM Rehab	0		06-Mar-14 A																															
Permitting					419	04-Oct-14 A	27-Nov-15 A																												
CT71300	EPA Start Date for Permitting - North Dade 72" PCCP FM Rehab	0	04-Oct-14 A																																
CT50650	EPA Compliance Date for Permitting - North Dade 72" PCCP FM Rehab**	0		06-Mar-15 A																															
CT10150	Permitting - North Dade 72" PCCP FM Rehab	263	10-Mar-15 A	27-Nov-15 A																															
Procurement					761	03-Feb-14 A	05-Mar-16 A																												
CT10230	Procurement - North Dade 72" PCCP FM Rehab	395	03-Feb-14 A	04-Mar-15 A																															
CT71310	EPA Start Date for Procurement - North Dade 72" PCCP FM Rehab	0	07-Mar-15 A																																
CT50660	EPA Compliance Date for Procurement - North Dade 72" PCCP FM Rehab	0		05-Mar-16 A																															
Design-Build					1117	10-Mar-15 A	05-Mar-18 A																												
CT22240	Final Design (Design-Builder) - North Dade 72" PCCP FM Rehab	179	10-Mar-15 A	04-Sep-15 A																															
CT10310	Construction - North Dade 72" PCCP FM Rehab	219	30-Sep-15 A	05-May-16 A																															
CT10410	Substantial Completion (CD Compliance Date 3/05/18) - North Dade 72" PCCP FM Rehab	0		05-May-16 A																															
CT40390	Project Closeout - North Dade 72" PCCP FM Rehab	240	06-May-16 A	31-Dec-16 A																															
CT71320	EPA Start Date for Construction - North Dade 72" PCCP FM Rehab	0	09-Jul-17 A																																
CT50670	EPA Compliance Date for Construction - North Dade 72" PCCP FM Rehab	0		05-Mar-18 A																															
Project Administration					1328	13-May-13 A	31-Dec-16 A																												
CT38430	WASD Project Administration - North Dade 72" PCCP FM Rehab	1329	13-May-13 A	31-Dec-16 A																															
4.05 South Dade 54 inch PCCP FM Rehabilitation					2195	05-Aug-14 A	30-Mar-20																												
Engineering Design					422	05-Aug-14 A	01-Oct-15 A																												
CT71330	EPA Start Date for Engineering Design - South Dade 54" PCCP FM Rehab**	0	05-Aug-14 A																																
CT50680	EPA Compliance Date for Engineering Design - South Dade 54" PCCP FM Rehab**	0		20-Feb-15 A																															
CT10060	Engineering Design - South Dade 54" PCCP FM Rehab	423	05-Aug-14 A	01-Oct-15 A																															
Permitting					446	14-Oct-15 A	02-Jan-17 A																												
CT71340	EPA Start Date for Permitting - South Dade 54" PCCP FM Rehab	0	04-Jan-16 A																																
CT10160	Permitting - South Dade 54" PCCP FM Rehab	129	14-Oct-15 A	19-Feb-16 A																															
CT50690	EPA Compliance Date for Permitting - South Dade 54" PCCP FM Rehab	0		02-Jan-17 A																															
Procurement					618	07-Apr-15 A	15-Dec-16 A																												
CT71350	EPA Start Date for Procurement - South Dade 54" PCCP FM Rehab	0	07-Apr-15 A																																
CT10240	Procurement - South Dade 54" PCCP FM Rehab	116	03-Jun-16 A	26-Sep-16 A																															
CT50700	EPA Compliance Date for Procurement - South Dade 54" PCCP FM Rehab	0		15-Dec-16 A																															
Construction					826	26-Sep-16 A	23-Dec-18 A																												
CT71360	EPA Start Date for Construction - South Dade 54" PCCP FM Rehab	0	16-Dec-16 A																																
CT10320	Construction - South Dade 54" PCCP FM Rehab	428	26-Sep-16 A	14-Sep-18 A																															
CT10390	Substantial Completion (CD Compliance Date 12/23/18) - South Dade 54" PCCP FM Rehab	0		14-Sep-18 A																															

Activity ID	Activity Name	Original Duration	Start	Finish	2018				2019				2020				2021				2022				2023				2024				2025				2026	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
CT50710	EPA Compliance Date for Construction - South Dade 54" PCCP FM Rehab	0		23-Dec-18 A	EPA Compliance Date for Construction - South Dade 54" PCCP FM Rehab																																	
4.05 (1) 48/54" FM from SW 127 Ave/SW 280 St. to SW 107 Ave/SW 248 St (Phase 1)					2195	05-Aug-14 A	30-Mar-20	4.05 (1) 48/54" FM from SW 127 Ave/SW 280 St. to SW 107 Ave/SW 248 St (Phase 1)																														
Engineering Design					422	05-Aug-14 A	01-Oct-15 A																															
CT12001	30% Design Submittal - 48/54 Inch FM (Phase 1)	208	05-Aug-14 A	28-Feb-15 A																																		
CT22220	30% Submittal Review - 48/54 Inch FM (Phase 1)	137	02-Mar-15 A	16-Jul-15 A																																		
CT22230	60% Design Submittal - 48/54 Inch FM (Phase 1)	14	11-Jul-15 A	24-Jul-15 A																																		
CT22610	60% Design Review - 48/54 Inch FM (Phase 1)	19	25-Jul-15 A	12-Aug-15 A																																		
CT22570	90% Design Submittal - 48/54 Inch FM (Phase 1)	30	13-Aug-15 A	11-Sep-15 A																																		
CT80410	Engineering Design - 48/54 Inch FM (Phase 1)	423	05-Aug-14 A	01-Oct-15 A																																		
CT38110	90% Submittal Review - 48/54 Inch FM (Phase 1)	18	14-Sep-15 A	01-Oct-15 A																																		
Permitting					128	14-Oct-15 A	19-Feb-16 A																															
CT12021	Permitting - 48/54 Inch FM (Phase 1)	129	14-Oct-15 A	19-Feb-16 A																																		
Procurement					563	21-Mar-16 A	30-Oct-17 A																															
CT30011	Submit/Approve SBD Goals and Request to Advertise - 48/54 hch FM (Phase 1)	47	21-Mar-16 A	06-May-16 A																																		
CT38060	Pre-Purchase Bid Package - 48/54 Inch FM (Phase 1)	39	25-Apr-16 A	02-Jun-16 A																																		
CT30001	Design Documents Sent to Procurement - 48/54 Inch FM (Phase 1)	0	03-Jun-16 A																																			
CT38070	Advertise Pre-Purchase Package - 48/54 Inch FM (Phase 1)	0	03-Jun-16 A																																			
CT30021	Advertise Bid Package - 48/54 Inch FM (Phase 1)	0	17-Jun-16 A																																			
CT30031	Bid Solicitation Period - 48/54 Inch FM (Phase 1)	40	17-Jun-16 A	26-Jul-16 A																																		
CT30041	Bids Due - 48/54 Inch FM (Phase 1)	0	27-Jul-16 A																																			
CT38100	Vendor Bid & Award - 48/54 Inch FM (Phase 1)	56	03-Jun-16 A	28-Jul-16 A																																		
CT38080	Vendor NTP - 48/54 hch FM (Phase 1)	0		28-Jul-16 A																																		
CT30051	Bid Review Period - 48/54 Inch FM (Phase 1)	48	27-Jul-16 A	12-Sep-16 A																																		
CT30061	Award Recommendation - 48/54 Inch FM (Phase 1)	0		12-Sep-16 A																																		
CT12011	Procurement - 48/54 Inch FM (Phase 1)	116	03-Jun-16 A	26-Sep-16 A																																		
CT30071	Final Approvals (BCC, Mayor, Risk Mgmt.) - 48/54 Inch FM (Phase 1)	14	13-Sep-16 A	26-Sep-16 A																																		
CT30270	Pre-Purchase 54" Pipe & Valves - 48/54 Inch FM (Phase 1)	528	25-Apr-16 A	30-Oct-17 A																																		
CT38090	Fabricate & Deliver Pre-Purchased 54" Pipe & Fittings - 48/54 Inch FM (Phase 1)	433	29-Jul-16 A	30-Oct-17 A																																		
Construction					1389	19-Oct-16 A	30-Mar-20																															
CT30081	Contractor Notice to Proceed (NTP) - 48/54 Inch FM (Phase 1)	0	19-Oct-16 A																																			
CT12091	Transfer of 4.05(2) to WASD - 8/54 Inch FM	0		02-Dec-16 A																																		
CT12031	Construction - 48/54 Inch FM (Phase 1)	405	19-Oct-16 A	14-Sep-18 A																																		
CT81120	Commissioning - 48/54 Inch FM (Phase 1)	30	21-May-18 A	14-Sep-18 A																																		
CT12041	Substantial Completion Phase 1 (CD Compliance Date 12/23/18) - 48/54 Inch FM (Phase 1)	0		14-Sep-18 A																																		
CT40400	Project Closeout - 48/54 Inch FM (Phase 1)	90	15-Sep-18 A	30-Mar-20																																		
Project Administration					1301	05-Aug-14 A	30-Mar-20																															
CT38420	WASD Project Administration - 48/54 Inch FM (Phase 1)	1301	05-Aug-14 A	30-Mar-20																																		
4.06 Replacement of Tamiami Canal Aerial Crossing FM's at NW 37 Ave					1418	11-Dec-12 A	29-Oct-16 A																															
Engineering Design					387	11-Dec-12 A	02-Jan-14 A																															
CT10040	Engineering Design - Replace Tamiami Canal/NW 37 Ave Crossing	91	11-Dec-12 A	11-Mar-13 A																																		
CT71370	EPA Start Date for Engineering Design - Replace Tamiami Canal/NW 37 Ave Crossing	0	01-Oct-13 A																																			
CT50720	EPA Compliance Date for Engineering Design - Replace Tamiami Canal/NW 37 Ave Crossing	0		02-Jan-14 A																																		
Permitting					661	12-Mar-13 A	02-Jan-15 A																															
CT10120	Permitting - Replace Tamiami Canal/NW 37 Ave Crossing	61	12-Mar-13 A	11-May-13 A																																		
CT71380	EPA Start Date for Permitting - Replace Tamiami Canal/NW 37 Ave Crossing	0	03-Jan-14 A																																			
CT50730	EPA Compliance Date for Permitting - Replace Tamiami Canal/NW 37 Ave Crossing	0		02-Jan-15 A																																		
Procurement					964	13-May-13 A	02-Jan-16 A																															
CT10200	Procurement - Replace Tamiami Canal/NW 37 Ave Crossing	144	13-May-13 A	03-Oct-13 A																																		
CT71390	EPA Start Date for Procurement - Replace Tamiami Canal/NW 37 Ave Crossing	0	03-Jan-15 A																																			
CT50740	EPA Compliance Date for Procurement - Replace Tamiami Canal/NW 37 Ave Crossing	0		02-Jan-16 A																																		
Construction					1118	07-Oct-13 A	29-Oct-16 A																															
CT10280	Construction - Replace Tamiami Canal/NW 37 Ave Crossing	233	07-Oct-13 A	27-May-14 A																																		
CT10350	Substantial Completion (CD Compliance Date 10/29/2016) - Replace Tamiami Canal/NW 37 Ave Crossing	0		27-May-14 A																																		
CT71400	EPA Start Date for Construction - Replace Tamiami Canal/NW 37 Ave Crossing	0	03-Jan-16 A																																			
CT50750	EPA Compliance Date for Construction - Replace Tamiami Canal/NW 37 Ave Crossing	0		29-Oct-16 A																																		
Project Administration					532	11-Dec-12 A	27-May-14 A																															
CT80790	WASD Project Administration - Replace Tamiami Canal/NW 37 Ave Crossing	533	11-Dec-12 A	27-May-14 A																																		
4.07 Replacement of 18 inch DIP FM in Miami Lakes					1855	11-Mar-12 A	09-Apr-17 A																															
Engineering Design					788	11-Mar-12 A	08-May-14 A																															
CT71410	EPA Start Date for Engineering Design - Replace 18" DIP FM in Miami Lakes	0	01-Nov-13 A																																			
CT10090	Engineering Design - Replace 18" DIP FM in Miami Lakes	789	11-Mar-12 A	08-May-14 A																																		
CT50760	EPA Compliance Date for Engineering Design - Replace 18" DIP FM in Miami Lakes	0		08-May-14 A																																		
Permitting					269	09-Jun-14 A	05-Mar-15 A																															
CT71420	EPA Start Date for Permitting - Replace 18" DIP FM in Miami Lakes	0	09-Jun-14 A																																			
CT10140	Permitting - Replace 18" DIP FM in Miami Lakes	137	09-Jun-14 A	23-Oct-14 A																																		
CT50770	EPA Compliance Date for Permitting - Replace 18" DIP FM in Miami Lakes	0		05-Mar-15 A																																		
Procurement					497	24-Oct-14 A	04-Mar-16 A																															
CT71430	EPA Start Date for Procurement - Replace 18" DIP FM in Miami Lakes	0	06-Mar-15 A																																			
CT10220	Procurement - Replace 18" DIP FM in Miami Lakes	221	24-Oct-14 A	01-Jun-15 A																																		
CT50780	EPA Compliance Date for Procurement - Replace 18" DIP FM in Miami Lakes	0		04-Mar-16 A																																		
Construction					677	02-Jun-15 A	09-Apr-17 A																															
CT10300	Construction - Replace 18" DIP FM in Miami Lakes	189	02-Jun-15 A	07-Dec-15 A																																		
CT10370	Substantial Completion (CD Compliance Date 4/09/17) - Replace 18" DIP FM in Miami Lakes	0		07-Dec-15 A																																		
CT71440	EPA Start Date for Construction - Replace 18" DIP FM in Miami Lakes	0	05-Mar-16 A																																			
CT40420	Project Closeout - Replace 18" DIP FM in Miami Lakes	220	08-Dec-15 A	14-Jul-16 A																																		

Activity ID	Activity Name	Original Duration	Start	Finish	2018-2026																								
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2			
CT50790	EPA Compliance Date for Construction - Replace 18" DIP FM in Miami Lakes	0		09-Apr-17 A	Date for Construction - Replace 18" DIP FM in Miami Lakes																								
Project Administration					1586	11-Mar-12 A	14-Jul-16 A																						
CT38400	WASD Project Administration - Replace 18" DIP FM in Miami Lakes	1587	11-Mar-12 A	14-Jul-16 A	place 18" DIP FM in Miami Lakes																								
4.08 Rehabilitation of 54 inch PCCP FM in the City					1607	06-Oct-14 A	04-Sep-19 A	4.08 Rehabilitation of 54 inch PCCP FM in the City																					
Engineering Design					401	06-Oct-14 A	11-Nov-15 A																						
CT71450	EPA Start Date for Engineering Design - Rehab 54" PCCP FM in the City**	0	06-Oct-14 A																										
CT50800	EPA Compliance Date for Engineering Design - Rehab 54" PCCP FM in the City**	0		03-Apr-15 A	FM in the City**																								
CT10080	Engineering Design (DCP) - Rehab 54" PCCP FM in the City	245	12-Mar-15 A	11-Nov-15 A	in the City																								
Permitting					269	04-Apr-15 A	29-Dec-15 A																						
CT71460	EPA Start Date for Permitting - Rehab 54" PCCP FM in the City**	0	04-Apr-15 A																										
CT10130	Permitting - Rehab 54" PCCP FM in the City	12	11-Jul-15 A	22-Jul-15 A																									
CT50820	EPA Compliance Date for Permitting - Rehab 54" PCCP FM in the City	0		29-Dec-15 A	" PCCP FM in the City																								
Procurement					570	06-Mar-15 A	26-Sep-16 A																						
CT71470	EPA Start Date for Procurement - Rehab 54" PCCP FM in the City**	0	06-Mar-15 A																										
CT50810	10/25/18	0		08-Jul-16 A																									
CT10210	Procurement - Rehab 54" PCCP FM in the City	248	23-Jan-16 A	26-Sep-16 A	CP FM in the City																								
Construction					269	20-Sep-16 A	16-Jun-17 A																						
CT71480	EPA Start Date for Construction - Rehab 54" PCCP FM in the City**	0	20-Sep-16 A		in - Rehab 54" PCCP FM in the City**																								
CT50830	EPA Compliance Date for Construction - Rehab 54" PCCP FM in the City**	0		09-Apr-17 A	Date for Construction - Rehab 54" PCCP FM in the City**																								
CT10290	Construction - Rehab 54" PCCP FM in the City	263	27-Sep-16 A	16-Jun-17 A	n - Rehab 54" PCCP FM in the City																								
4.08 (1) Rehab 2 Miles of 54 Inch PCCP FM (Consent Decree)					964	27-Oct-14 A	16-Jun-17 A	4.08 (1) Rehab 2 Miles of 54 Inch PCCP FM (Consent Decree)																					
Pre-Design					135	27-Oct-14 A	11-Mar-15 A																						
CT22070	Pre-Design - Rehab 2 Miles of 54" PCCP FM in the City	136	27-Oct-14 A	11-Mar-15 A																									
Engineering Design					372	12-Mar-15 A	18-Mar-16 A																						
CT22060	Basis of Design Report (BODR) - Rehab 2 Miles of 54" PCCP FM in the City	121	12-Mar-15 A	10-Jul-15 A	P FM in the City																								
CT22620	BODR Design Review - Rehab 2 Miles of 54" PCCP FM in the City	12	11-Jul-15 A	22-Jul-15 A	the City																								
CT38120	As-Built Design Submittal - Rehab 2 Miles of 54" PCCP FM in the City	42	01-Oct-15 A	11-Nov-15 A	DCP FM in the City																								
CT37350	Negotiate Scope & Fee of Remaining Design - Rehab 2 Miles of 54" PCCP FM in the City	260	30-Mar-15 A	14-Dec-15 A	Rehab 2 Miles of 54" PCCP FM in the City																								
CT80420	Engineering Design - Rehab 2 Miles of 54" PCCP FM in the City	373	12-Mar-15 A	18-Mar-16 A	" PCCP FM in the City																								
CT22100	Develop Performance Specifications - Rehab 2 Miles of 54" PCCP FM in the City	170	01-Oct-15 A	18-Mar-16 A	ab 2 Miles of 54" PCCP FM in the City																								
Permitting					11	11-Jul-15 A	22-Jul-15 A																						
CT22110	Permitting - Rehab 2 Miles of 54" PCCP FM in the City	12	11-Jul-15 A	22-Jul-15 A																									
Procurement					247	23-Jan-16 A	26-Sep-16 A																						
CT33021	Submit/Approve SBD Goals - Rehab 2 Miles of 54" PCCP FM in the City	21	23-Jan-16 A	12-Feb-16 A	of 54" PCCP FM in the City																								
CT33011	Design Documents Sent to Procurement - Rehab 2 Miles of 54" PCCP FM in the City	0	18-Apr-16 A		- Rehab 2 Miles of 54" PCCP FM in the City																								
CT33031	Advertise Bid Package - Rehab 2 Miles of 54" PCCP FM in the City	0	25-May-16 A		s of 54" PCCP FM in the City																								
CT33041	Bid Solicitation Period - Rehab 2 Miles of 54" PCCP FM in the City	43	25-May-16 A	06-Jul-16 A	iles of 54" PCCP FM in the City																								
CT33051	Bids Due - Rehab 2 Miles of 54" PCCP FM in the City	0	07-Jul-16 A		DCP FM in the City																								
CT33061	Bid Review Period - Rehab 2 Miles of 54" PCCP FM in the City	44	07-Jul-16 A	19-Aug-16 A	es of 54" PCCP FM in the City																								
CT33071	Award Recommendation - Rehab 2 Miles of 54" PCCP FM in the City	0		19-Aug-16 A	b 2 Miles of 54" PCCP FM in the City																								
CT50940	Bid Protest - Rehab 2 Miles of 54" PCCP FM in the City	31	24-Aug-16 A	23-Sep-16 A	54" PCCP FM in the City																								
CT22120	Procurement - Rehab 2 Miles of 54" PCCP FM in the City	162	18-Apr-16 A	26-Sep-16 A	of 54" PCCP FM in the City																								
CT33081	Final Approvals (BCC, Mayor, Risk Mgmt.) - Rehab 2 Miles of 54" PCCP FM in the City	3	24-Sep-16 A	26-Sep-16 A	Risk Mgmt.) - Rehab 2 Miles of 54" PCCP FM in the City																								
Construction					262	27-Sep-16 A	16-Jun-17 A																						
CT33091	Contractor Notice to Proceed (NTP) - Rehab 2 Miles of 54" PCCP FM in the City	0	27-Sep-16 A		(NTP) - Rehab 2 Miles of 54" PCCP FM in the City																								
CT22650	Construction - Rehab 2 Miles of 54" PCCP FM in the City	263	27-Sep-16 A	28-May-17 A	- Rehab 2 Miles of 54" PCCP FM in the City																								
CT10380	Substantial Completion (CD Compliance Date 05/28/17) - Rehab 2 Miles of 54" PCCP FM in the City	0		16-Jun-17 A	Completion (CD Compliance Date 05/28/17) - Rehab 2 Miles of 54" PCCP FM in the City																								
Project Administration					828	12-Mar-15 A	16-Jun-17 A																						
CT38390	WASD Project Administration - Rehab 2 Miles of 54" PCCP FM in the City	828	12-Mar-15 A	16-Jun-17 A	ect Administration - Rehab 2 Miles of 54" PCCP FM in the City																								
4.08 (2) Rehab/Replace an Additional 2 Miles of 54" PCCP FM (Non-Consent Decree)					1586	27-Oct-14 A	04-Sep-19 A	4.08 (2) Rehab/Replace an Additional 2 Miles of 54" PCCP FM (Non-Consent Decree)																					
Pre-Design					135	27-Oct-14 A	11-Mar-15 A																						
CT22660	Pre-Design - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	136	27-Oct-14 A	11-Mar-15 A	the City																								
Engineering Design					372	12-Mar-15 A	18-Mar-16 A																						
CT22670	Basis of Design Report (BODR) - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	121	12-Mar-15 A	10-Jul-15 A	2 Miles of 54" PCCP FM in the City																								
CT22680	BODR Design Review - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	12	11-Jul-15 A	22-Jul-15 A	of 54" PCCP FM in the City																								
CT80430	Engineering Design - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	373	12-Mar-15 A	18-Mar-16 A	tional 2 Miles of 54" PCCP FM in the City																								
CT22710	Develop Performance Specifications - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	170	01-Oct-15 A	18-Mar-16 A	ab/Replace Additional 2 Miles of 54" PCCP FM in the City																								
Permitting					21	01-Jul-15 A	22-Jul-15 A																						
CT22740	Permitting - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	22	01-Jul-15 A	22-Jul-15 A	P FM in the City																								
Procurement					247	23-Jan-16 A	26-Sep-16 A																						
CT35200	Submit/Approve SBD Goals and Request to Advertise - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	21	23-Jan-16 A	12-Feb-16 A	Advertise - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																								
CT35190	Design Documents Sent to Procurement - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	0	18-Apr-16 A		- Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																								
CT35210	Advertise Bid Package - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	0	25-May-16 A		ce Additional 2 Miles of 54" PCCP FM in the City																								
CT35220	Bid Solicitation Period - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	43	25-May-16 A	06-Jul-16 A	lace Additional 2 Miles of 54" PCCP FM in the City																								
CT35230	Bids Due - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	0	07-Jul-16 A		al 2 Miles of 54" PCCP FM in the City																								
CT35240	Bid Review Period - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	44	07-Jul-16 A	19-Aug-16 A	ace Additional 2 Miles of 54" PCCP FM in the City																								
CT35250	Award Recommendation - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	0		19-Aug-16 A	b/Replace Additional 2 Miles of 54" PCCP FM in the City																								
CT50950	Bid Protest - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	31	24-Aug-16 A	23-Sep-16 A	Additional 2 Miles of 54" PCCP FM in the City																								
CT22750	Procurement - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	162	18-Apr-16 A	26-Sep-16 A	e Additional 2 Miles of 54" PCCP FM in the City																								
CT35260	Final Approvals (BCC, Mayor, Risk Mgmt.) - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	3	24-Sep-16 A	26-Sep-16 A	Risk Mgmt.) - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																								
Construction					856	27-Sep-16 A	04-Sep-19 A																						
CT35270	Contractor Notice to Proceed (NTP) - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	0	27-Sep-16 A		(NTP) - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																								
CT22760	Construction Phase 2 - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	365	01-Jan-18 A	29-Aug-18 A	Construction Phase 2 - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																								
CT22770	Substantial Completion (Non Consent Decree) - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	0		29-Aug-18 A	Substantial Completion (Non Consent Decree) - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																								
CT40430	Project Closeout - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	90	30-Aug-18 A	04-Sep-19 A	Project Closeout - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																								

Activity ID	Activity Name	Original Duration	Start	Finish	2018		2019				2020				2021				2022				2023				2024				2025				2026			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Project Administration					04-Sep-19 A, Project Administration																																	
CT38380	WASD Project Administration - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	1450	12-Mar-15 A	04-Sep-19 A	WASD Project Administration - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																																	
4.09 Replace Approximately 30 miles of AC FM Transmission System					06-May-19 A, Engineering Design																																	
Engineering Design					06-May-19 A, Engineering Design																																	
CT71490	EPA Start Date for Engineering Design - Replace ~30 miles of AC FM Trans System**	0	01-Nov-13 A		EPA Start Date for Engineering Design - Replace ~30 miles of AC FM Trans System**																																	
CT50840	EPA Compliance Date for Engineering Design - Replace ~30 miles of AC FM Trans System**	0		09-Oct-14 A	EPA Compliance Date for Engineering Design - Replace ~30 miles of AC FM Trans System**																																	
CT10110	Engineering Design - Replace ~30 miles of AC FM Trans System	2087	28-Aug-12 A	06-May-19 A	Engineering Design - Replace ~30 miles of AC FM Trans System																																	
Permitting					31-Dec-18 A, Permitting																																	
CT71500	EPA Start Date for Permitting - Replace ~30 miles of AC FM Trans System**	0		10-Oct-14 A	EPA Start Date for Permitting - Replace ~30 miles of AC FM Trans System**																																	
CT10190	Permitting - Replace ~30 miles of AC FM Trans System	1835	05-Aug-13 A	04-Sep-18 A	Permitting - Replace ~30 miles of AC FM Trans System																																	
CT50850	EPA Compliance Date for Permitting - Replace ~30 miles of AC FM Trans System	0		31-Dec-18 A	EPA Compliance Date for Permitting - Replace ~30 miles of AC FM Trans System																																	
Procurement					08-Oct-19 A, Procurement																																	
CT71510	EPA Start Date for Procurement - Replace ~30 miles of AC FM Trans System**	0	10-Oct-15 A		EPA Start Date for Procurement - Replace ~30 miles of AC FM Trans System**																																	
CT50860	EPA Compliance Date for Procurement - Replace ~30 miles of AC FM Trans System	0		30-Apr-19 A	EPA Compliance Date for Procurement - Replace ~30 miles of AC FM Trans System																																	
CT10270	Procurement - Replace ~30 miles of AC FM Trans System	1750	16-Dec-13 A	08-Oct-19 A	Procurement - Replace ~30 miles of AC FM Trans System																																	
Construction					17-Oct-20, Construction																																	
CT71520	EPA Start Date for Construction - Replace ~30 miles of AC FM Trans System	0	09-Oct-16 A		EPA Start Date for Construction - Replace ~30 miles of AC FM Trans System																																	
CT10340	Construction - Replace ~30 miles of AC FM Trans System	1935	14-Apr-14 A	16-Jul-20	Construction - Replace ~30 miles of AC FM Trans System																																	
CT10420	Substantial Completion (CD Compliance Date 10/17/20) - Replace ~30 miles of AC FM Trans System	0		16-Jul-20*	Substantial Completion (CD Compliance Date 10/17/20) - Replace ~30 miles of AC FM Trans System																																	
CT50880	EPA Compliance Date for Construction - Replace ~30 miles of AC FM Trans System	0		17-Oct-20*	EPA Compliance Date for Construction - Replace ~30 miles of AC FM Trans System																																	
4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66) - Asbestos Concrete Pipe (ACP) Cut and Plug					14-Oct-20, 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66) - Asbestos Concrete Pipe (ACP) Cut and Plug																																	
Pre-Design					28-Sep-18 A, Pre-Design																																	
CT22260	Pre-Design - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	89	24-Oct-17 A	28-Sep-18 A	Pre-Design - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)																																	
Engineering Design					06-May-19 A, Engineering Design																																	
CT80970	30% Design Submittal - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	64	29-Sep-18 A	31-Dec-18 A	30% Design Submittal - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)																																	
CT80980	30% Design Review - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	14	31-Dec-18 A	16-Jan-19 A	30% Design Review - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)																																	
CT81010	100% Design Submittal - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	43	17-Jan-19 A	07-Mar-19 A	100% Design Submittal - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)																																	
CT12101	Engineering Design - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	98	29-Sep-18 A	06-May-19 A	Engineering Design - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)																																	
CT81020	100% Design Review/Permit Ready - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	15	08-Mar-19 A	06-May-19 A	100% Design Review/Permit Ready - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)																																	
Procurement					08-Oct-19 A, Procurement																																	
CT80850	Design Documents Sent to Procurement - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	0	09-May-19 A		Design Documents Sent to Procurement - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)																																	
CT80860	Submit/Approve SBD Goals and Request to Advertise - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	32	09-May-19 A	20-Jun-19 A	Submit/Approve SBD Goals and Request to Advertise - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)																																	
CT80870	Advertise Bid Package - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	0	21-Jun-19 A		Advertise Bid Package - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)																																	
CT80880	Bid Solicitation Period - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	45	21-Jun-19 A	05-Aug-19 A	Bid Solicitation Period - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)																																	
CT80890	Bids Due - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	0	06-Aug-19 A		Bids Due - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)																																	
CT80900	Bid Review Period - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	30	06-Aug-19 A	05-Sep-19 A	Bid Review Period - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)																																	
CT80910	Award Recommendation - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	0		05-Sep-19 A	Award Recommendation - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)																																	
CT80920	Procurement - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	152	09-May-19 A	08-Oct-19 A	Procurement - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)																																	
CT80930	Final Approvals - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	52	06-Sep-19 A	08-Oct-19 A	Final Approvals - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)																																	
Construction					14-Oct-20, Construction																																	
CT80940	Contractor Notice to Proceed (NTP) - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	0	21-Oct-19 A		Contractor Notice to Proceed (NTP) - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)																																	
CT80950	Construction - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	270	21-Oct-19 A	16-Jul-20	Construction - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)																																	
CT80960	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	0		16-Jul-20*	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)																																	
CT40440	Project Closeout - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	90	17-Jul-20	14-Oct-20*	Project Closeout - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)																																	
Project Administration					14-Oct-20, Project Administration																																	
CT38530	WASD Project Administration - 4.09 (1), (27), (28), (44-45), (54-56), (57-59), (64), (66)	644	29-Sep-18 A	14-Oct-20	WASD Project Administration - 4.09 (1), (27), (28), (44-45), (54-56), (57-59), (64), (66)																																	
4.09 (2) Replacement of 2,403 LF of 12" ACP FM - NE 14th Ave. from PS-0455 to Miami Gardens Dr.					22-Mar-17 A, 4.09 (2) Replacement of 2,403 LF of 12" ACP FM - NE 14th Ave. from PS-0455 to Miami Gardens Dr.																																	
Engineering Design					08-Jul-15 A, Engineering Design - 4.09 (2)																																	
CT12151	Engineering Design - 4.09 (2)	441	24-Apr-14 A	08-Jul-15 A	Engineering Design - 4.09 (2)																																	
Permitting					24-Sep-15 A, Permitting - 4.09 (2)																																	
CT12161	Permitting - 4.09 (2)	77	09-Jul-15 A	24-Sep-15 A	Permitting - 4.09 (2)																																	
Procurement					16-May-16 A, Procurement - 4.09 (2)																																	
CT35010	Design Documents Sent to Procurement - 4.09 (2)	0	26-Oct-15 A		Design Documents Sent to Procurement - 4.09 (2)																																	
CT35020	Submit/Approve SBD Goals and Request to Advertise - 4.09 (2)	14	26-Oct-15 A	08-Nov-15 A	Submit/Approve SBD Goals and Request to Advertise - 4.09 (2)																																	
CT35030	Advertise Bid Package - 4.09 (2)	0	09-Nov-15 A		Advertise Bid Package - 4.09 (2)																																	
CT35040	Bid Solicitation Period - 4.09 (2)	36	09-Nov-15 A	14-Dec-15 A	Bid Solicitation Period - 4.09 (2)																																	
CT35050	Bids Due - 4.09 (2)	0	14-Dec-15 A		Bids Due - 4.09 (2)																																	
CT35060	Bid Review Period - 4.09 (2)	33	14-Dec-15 A	15-Jan-16 A	Bid Review Period - 4.09 (2)																																	
CT35070	Award Recommendation - 4.09 (2)	0		15-Jan-16 A	Award Recommendation - 4.09 (2)																																	
CT12171	Procurement - 4.09 (2)	204	26-Oct-15 A	16-May-16 A	Procurement - 4.09 (2)																																	
CT35080	Final Approvals - 4.09 (2)	122	16-Jan-16 A	16-May-16 A	Final Approvals - 4.09 (2)																																	
Construction					22-Mar-17 A, Construction - 4.09 (2)																																	
CT35090	Contractor Notice to Proceed (NTP) - 4.09 (2)	0	17-May-16 A		Contractor Notice to Proceed (NTP) - 4.09 (2)																																	
CT12181	Construction - 4.09 (2)	162	17-May-16 A	25-Oct-16 A	Construction - 4.09 (2)																																	
CT12191	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (2)	0		25-Oct-16 A	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (2)																																	
CT40450	Project Closeout - 4.09 (2)	149	25-Oct-16 A	22-Mar-17 A	Project Closeout - 4.09 (2)																																	
Project Administration					22-Mar-17 A, Project Administration - 4.09 (2)																																	
CT38370	WASD Project Administration - 4.09 (2)	1063	24-Apr-14 A	22-Mar-17 A	WASD Project Administration - 4.09 (2)																																	
4.09 (3-5, 8) RPQ T1811 Replacement of FM from Pump Station #0356 to NW 183rd and 52nd Ave.					22-Mar-17 A, 4.09 (3-5, 8) RPQ T1811 Replacement of FM from Pump Station #0356 to NW 183rd and 52nd Ave.																																	
Engineering Design					02-Aug-13 A, Engineering Design - 4.09 (3-5,8)																																	
CT12201	Engineering Design - 4.09 (3-5,8)	244	28-Aug-12 A	02-Aug-13 A	Engineering Design - 4.09 (3-5,8)																																	
Permitting					20-Dec-13 A, Permitting - 4.09 (3-5,8)																																	
CT12211	Permitting - 4.09 (3-5,8)	100	05-Aug-13 A	20-Dec-13 A	Permitting - 4.09 (3-5,8)																																	
Procurement					11-Apr-14 A, Procurement - 4.09 (3-5,8)																																	
CT12221	Procurement - 4.09 (3-5,8)	85	16-Dec-13 A	11-Apr-14 A	Procurement - 4.09 (3-5,8)																																	

Activity ID	Activity Name	Original Duration	Start	Finish	2018				2019				2020				2021				2022				2023				2024				2025				2026			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Construction					Construction																																			
CT12231	Construction - 4.09 (3-5,8)	86	14-Apr-14 A	22-Mar-17 A	Construction - 4.09 (3-5,8)																																			
CT12241	Substantial Completion (CD Compliance Date 10/17/20) - 4.9 (3-5,8)	0		11-Aug-14 A	Construction - 4.09 (3-5,8)																																			
CT80630	Project Closeout - 4.9 (3-5,8)	149	25-Oct-16 A	22-Mar-17 A	Construction - 4.09 (3-5,8)																																			
Project Administration					4.9 (3-5,8)																																			
CT38500	WASD Project Administration - 4.09 (3-5,8)	510	28-Aug-12 A	11-Aug-14 A	4.9 (3-5,8)																																			
4.09 (6-7) Replace 325LF of 6" ACP FM from PS #0362 to NW52nd Ct. and 190th St. & 400LF 10" to 189th					31-Jan-20, 4.09 (6-7) Replace 325LF of 6" ACP FM from PS #0362 to NW52nd Ct. and 190th St. & 400LF 10" to 189th																																			
Pre-Design					Pre-Design - 4.09 (6-7)																																			
CT22270	Pre-Design - 4.09 (6-7)	210	29-Aug-14 A	26-Mar-15 A	Pre-Design - 4.09 (6-7)																																			
Engineering Design					Engineering Design - 4.09 (6-7)																																			
CT12251	Engineering Design - 4.09 (6-7)	220	27-Mar-15 A	02-Nov-15 A	Engineering Design - 4.09 (6-7)																																			
Permitting					Permitting - 4.09 (6-7)																																			
CT12261	Permitting - 4.09 (6-7)	155	03-Nov-15 A	06-Apr-16 A	Permitting - 4.09 (6-7)																																			
Procurement					Procurement - 4.09 (6-7)																																			
CT35280	Design Documents Sent to Procurement - 4.09 (6-7)	0	15-Apr-16 A	26-Jun-16 A	Procurement - 4.09 (6-7)																																			
CT35290	Submit/Approve SBD Goals and Request to Advertise - 4.09 (6-7)	73	15-Apr-16 A	26-Jun-16 A	Procurement - 4.09 (6-7)																																			
CT35300	Advertise Bid Package - 4.09 (6-7)	0	27-Jun-16 A	26-Jul-16 A	Procurement - 4.09 (6-7)																																			
CT35310	Bid Solicitation Period - 4.09 (6-7)	30	27-Jun-16 A	26-Jul-16 A	Procurement - 4.09 (6-7)																																			
CT35320	Bids Due - 4.09 (6-7)	0	27-Jul-16 A	10-Sep-16 A	Procurement - 4.09 (6-7)																																			
CT35330	Bid Review Period - 4.09 (6-7)	46	27-Jul-16 A	10-Sep-16 A	Procurement - 4.09 (6-7)																																			
CT35340	Award Recommendation - 4.09 (6-7)	0		10-Sep-16 A	Procurement - 4.09 (6-7)																																			
CT35350	Final Approvals - 4.09 (6-7)	19	11-Sep-16 A	29-Sep-16 A	Procurement - 4.09 (6-7)																																			
CT51010	P.O. Issued - 4.09 (6-7)	0		29-Sep-16 A	Procurement - 4.09 (6-7)																																			
CT80450	Contractor Withdrew Bid - 4.09 (6-7)	0	25-Jan-17 A	06-Mar-17 A	Procurement - 4.09 (6-7)																																			
CT80460	Bid Review Period (Second Bidder) - 4.09 (6-7)	41	25-Jan-17 A	06-Mar-17 A	Procurement - 4.09 (6-7)																																			
CT80470	Award Recommendation (Second Bidder) - 4.09 (6-7)	0		06-Mar-17 A	Procurement - 4.09 (6-7)																																			
CT12271	Procurement - 4.09 (6-7)	168	15-Apr-16 A	26-Jun-17 A	Procurement - 4.09 (6-7)																																			
CT80480	Final Approvals (Second Bidder) - 4.09 (6-7)	112	07-Mar-17 A	26-Jun-17 A	Procurement - 4.09 (6-7)																																			
CT80490	P.O. Issued (Second Bidder) - 4.09 (6-7)	0		26-Jun-17 A	Procurement - 4.09 (6-7)																																			
Construction					Construction																																			
CT35360	Contractor Notice to Proceed (NTP) - 4.09 (6-7)	0	26-Jun-17 A	31-Jan-20	Construction - 4.09 (6-7)																																			
CT12281	Construction - 4.09 (6-7)	54	26-Jun-17 A	18-Aug-17 A	Construction - 4.09 (6-7)																																			
CT12291	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (6-7)	0		18-Aug-17 A	Construction - 4.09 (6-7)																																			
CT40460	Project Closeout - 4.09 (6-7)	74	19-Aug-17 A	31-Jan-20*	Construction - 4.09 (6-7)																																			
Project Administration					31-Jan-20, Project Administration																																			
CT38360	WASD Project Administration - 4.09 (6-7)	950	27-Mar-15 A	31-Jan-20	31-Jan-20, Project Administration																																			
4.09 (9-13) Replacement of 6, 8 and 12" ACP FM Between PS#0385, PS#0374 and NW 119th St./37th Ave.					31-Jan-20, Project Administration																																			
Engineering Design					Engineering Design - 4.09 (9-13)																																			
CT12301	Engineering Design - 4.09 (9-13)	394	28-Aug-12 A	28-Feb-14 A	Engineering Design - 4.09 (9-13)																																			
Permitting					Permitting - 4.09 (9-13)																																			
CT12311	Permitting - 4.09 (9-13)	65	03-Mar-14 A	31-May-14 A	Permitting - 4.09 (9-13)																																			
Procurement					Procurement - 4.09 (9-13)																																			
CT12321	Procurement - 4.09 (9-13)	177	01-Jun-14 A	03-Feb-15 A	Procurement - 4.09 (9-13)																																			
Construction					Construction - 4.09 (9-13)																																			
CT12331	Construction - 4.09 (9-13)	185	04-Feb-15 A	07-Aug-15 A	Construction - 4.09 (9-13)																																			
CT12341	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (9-13)	133	04-Feb-15 A	07-Aug-15 A	Construction - 4.09 (9-13)																																			
Project Administration					4.09 (9-13)																																			
CT38490	WASD Project Administration - 4.09 (9-13)	769	28-Aug-12 A	07-Aug-15 A	4.09 (9-13)																																			
4.09 (14-19) Replacement of 6, 8 & 10" ACP FM Around PS#0376, 0427, 0375, 0377 and 0368					4.09 (9-13)																																			
Engineering Design					Engineering Design - 4.09 (14-19)																																			
CT12351	Engineering Design - 4.09 (14-19)	415	28-Aug-12 A	31-Mar-14 A	Engineering Design - 4.09 (14-19)																																			
Permitting					Permitting - 4.09 (14-19)																																			
CT12361	Permitting - 4.09 (14-19)	65	01-Apr-14 A	30-Jun-14 A	Permitting - 4.09 (14-19)																																			
Procurement					Procurement - 4.09 (14-19)																																			
CT12371	Procurement - 4.09 (14-19)	164	01-Jul-14 A	15-Feb-15 A	Procurement - 4.09 (14-19)																																			
Construction					Construction - 4.09 (14-19)																																			
CT12381	Construction - 4.09 (14-19)	107	17-Feb-15 A	03-Jun-15 A	Construction - 4.09 (14-19)																																			
CT12391	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (14-19)	77	17-Feb-15 A	03-Jun-15 A	Construction - 4.09 (14-19)																																			
Project Administration					4.09 (14-19)																																			
CT38520	WASD Project Administration - 4.09 (14-19)	722	28-Aug-12 A	03-Jun-15 A	4.09 (14-19)																																			
4.09 (20-21) Replace 467LF 8" ACP FM from PS#0366 to NW42ndPl/199thTer.& 1792LF 10"- 39thCt/199th St					11-Dec-19 A, 4.09 (20-21) Replace 467LF 8" ACP FM from PS#0366 to NW42ndPl/199thTer.& 1792LF 10"- 39thCt/199th St																																			
Pre-Design					Pre-Design - 4.9 (20-21)																																			
CT20030	Pre-Design - 4.9 (20-21)	244	29-Aug-14 A	30-Apr-15 A	Pre-Design - 4.9 (20-21)																																			
Engineering Design					Engineering Design - 4.09 (20-21)																																			
CT31001	30% Design Submittal - 4.09 (20-21)	152	30-Apr-15 A	29-Sep-15 A	Engineering Design - 4.09 (20-21)																																			
CT31011	60% Design Submittal - 4.09 (20-21)	34	01-May-15 A	03-Jun-15 A	Engineering Design - 4.09 (20-21)																																			
CT31021	90% Design Submittal - 4.09 (20-21)	28	04-Jun-15 A	01-Jul-15 A	Engineering Design - 4.09 (20-21)																																			
CT12401	Engineering Design - 4.09 (20-21)	22	02-Jul-15 A	23-Jul-15 A	Engineering Design - 4.09 (20-21)																																			
Permitting					Permitting - 4.09 (20-21)																																			
CT12411	Permitting - 4.09 (20-21)	152	30-Apr-15 A	29-Sep-15 A	Permitting - 4.09 (20-21)																																			
Procurement					Procurement - 4.09 (20-21)																																			
CT35370	100% Design Documents Sent to Procurement - 4.09 (20-21)	83	29-Sep-15 A	21-Dec-15 A	Procurement - 4.09 (20-21)																																			
CT35380	Submit/Approve SBD Goals and Request to Advertise - 4.09 (20-21)	84	29-Sep-15 A	21-Dec-15 A	Procurement - 4.09 (20-21)																																			
CT35390	Advertise Bid Package - 4.09 (20-21)	170	22-Dec-15 A	09-Jun-16 A	Procurement - 4.09 (20-21)																																			
CT35400	Bid Solicitation Period - 4.09 (20-21)	0	22-Dec-15 A	06-Mar-16 A	Procurement - 4.09 (20-21)																																			
CT35410	Bids Due - 4.09 (20-21)	76	22-Dec-15 A	06-Mar-16 A	Procurement - 4.09 (20-21)																																			
		0	07-Mar-16 A	05-Apr-16 A	Procurement - 4.09 (20-21)																																			
		30	07-Mar-16 A	05-Apr-16 A	Procurement - 4.09 (20-21)																																			
		0	06-Apr-16 A		Procurement - 4.09 (20-21)																																			

Activity ID	Activity Name	Original Duration	Start	Finish	2018				2019				2020				2021				2022				2023				2024				2025				2026			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
CT36720	Design Documents Sent to Procurement - 4.09 (65)	0	29-Aug-18 A		◆ Design Documents Sent to Procurement - 4.09 (65)																																			
CT36730	Submit/Approve SBD Goals and Request to Advertise - 4.09 (65)	30	29-Aug-18 A	25-Sep-18 A	■ Submit/Approve SBD Goals and Request to Advertise - 4.09 (65)																																			
CT36740	Advertise Bid Package - 4.09 (65)	0	26-Sep-18 A		◆ Advertise Bid Package - 4.09 (65)																																			
CT36750	Bid Solicitation Period - 4.09 (65)	30	26-Sep-18 A	25-Oct-18 A	■ Bid Solicitation Period - 4.09 (65)																																			
CT36760	Bids Due - 4.09 (65)	0	26-Oct-18 A		◆ Bids Due - 4.09 (65)																																			
CT36770	Bid Review Period - 4.09 (65)	15	26-Oct-18 A	30-Jan-19 A	■ Bid Review Period - 4.09 (65)																																			
CT36780	Award Recommendation - 4.09 (65)	0		30-Jan-19 A	◆ Award Recommendation - 4.09 (65)																																			
CT13771	Procurement - 4.09 (65)	105	29-Aug-18 A	14-Mar-19 A	■ Procurement - 4.09 (65)																																			
CT36790	Final Approvals - 4.09 (65)	15	31-Jan-19 A	14-Mar-19 A	■ Final Approvals - 4.09 (65)																																			
Construction					11-Mar-20, Construction																																			
CT36800	Contractor Notice to Proceed (NTP) - 4.09 (65)	0	24-Jun-19 A		◆ Contractor Notice to Proceed (NTP) - 4.09 (65)																																			
CT13781	Construction - 4.09 (65)	220	24-Jun-19 A	12-Dec-19 A	■ Construction - 4.09 (65)																																			
CT13791	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (65)	0		12-Dec-19 A	◆ Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (65)																																			
CT40660	Project Closeout - 4.09 (65)	90	13-Dec-19 A	11-Mar-20*	■ Project Closeout - 4.09 (65)																																			
Project Administration					11-Mar-20, Project Administration																																			
CT38200	WASD Project Administration - 4.09 (65)	658	19-Oct-17 A	11-Mar-20	■ WASD Project Administration - 4.09 (65)																																			
4.09 (67) Replace 2,700 LF of 8" ACP FM from PS#1132 Along Bikini Blvd to MH5 in Hanger Rd					07-Jul-20, 4.09 (67) Replace 2,700 LF of 8" ACP FM from PS#1132 Along Bikini Blvd to MH5 in Hanger Rd																																			
Pre-Design																																								
CT14201	Pre-Design - 4.09 (67)	137	29-Aug-14 A	13-Jan-15 A	■ Pre-Design - 4.09 (67)																																			
Engineering Design																																								
CT13851	Engineering Design - 4.09 (67)	436	13-Feb-15 A	24-Apr-16 A	■ Engineering Design - 4.09 (67)																																			
Permitting																																								
CT13861	Permitting - 4.09 (67)	192	25-Apr-16 A	03-Nov-16 A	■ Permitting - 4.09 (67)																																			
CT50390	DERM Permit - 4.09 (67)	193	25-Apr-16 A	03-Nov-16 A	■ DERM Permit - 4.09 (67)																																			
CT50400	Public Works Permit - 4.09 (67)	35	30-Sep-16 A	03-Nov-16 A	■ Public Works Permit - 4.09 (67)																																			
Procurement																																								
CT80360	GMOU submittal and approval - 4.09 (67)	21	16-Feb-17 A	08-Mar-17 A	■ GMOU submittal and approval - 4.09 (67)																																			
CT80250	Internal Bid Package Review - 4.09 (67)	6	19-May-17 A	24-May-17 A	■ Internal Bid Package Review - 4.09 (67)																																			
CT36900	Design Documents Sent to Procurement - 4.09 (67)	0	25-May-17 A		◆ Design Documents Sent to Procurement - 4.09 (67)																																			
CT36910	Submit/Approve SBD Goals and Request to Advertise - 4.09 (67)	27	25-May-17 A	20-Jun-17 A	■ Submit/Approve SBD Goals and Request to Advertise - 4.09 (67)																																			
CT36920	Advertise Bid Package - 4.09 (67)	0	21-Jun-17 A		◆ Advertise Bid Package - 4.09 (67)																																			
CT36930	Bid Solicitation Period - 4.09 (67)	49	21-Jun-17 A	08-Aug-17 A	■ Bid Solicitation Period - 4.09 (67)																																			
CT36940	Bids Due - 4.09 (67)	0	09-Aug-17 A		◆ Bids Due - 4.09 (67)																																			
CT36950	Bid Review Period - 4.09 (67)	77	09-Aug-17 A	25-Oct-17 A	■ Bid Review Period - 4.09 (67)																																			
CT36960	Award Recommendation - 4.09 (67)	0		25-Oct-17 A	◆ Award Recommendation - 4.09 (67)																																			
CT13871	Procurement - 4.09 (67)	183	25-May-17 A	29-Jan-18 A	■ Procurement - 4.09 (67)																																			
CT36970	Final Approvals - 4.09 (67)	30	26-Oct-17 A	27-Feb-18 A	■ Final Approvals - 4.09 (67)																																			
Construction					07-Jul-20, Construction																																			
CT36980	Contractor Notice to Proceed (NTP) - 4.09 (67)	0	05-Nov-18 A		◆ Contractor Notice to Proceed (NTP) - 4.09 (67)																																			
CT13881	Construction - 4.09 (67)	250	05-Nov-18 A	08-Apr-20	■ Construction - 4.09 (67)																																			
CT13891	Substantial Completion (Non-Consent Decree) - 4.09 (67)	0		08-Apr-20*	◆ Substantial Completion (Non-Consent Decree) - 4.09 (67)																																			
CT40680	Project Closeout - 4.09 (67)	90	09-Apr-20	07-Jul-20*	■ Project Closeout - 4.09 (67)																																			
Project Administration					07-Jul-20, Project Administration																																			
CT38180	WASD Project Administration - 4.09 (67)	1355	13-Feb-15 A	07-Jul-20	■ WASD Project Administration - 4.09 (67)																																			
4.09 (68) Replacement of 3,400 LF of 6" and 8" ACP FM, from PS#0364 to NW 199th St/42nd Ave.					25-Feb-20, 4.09 (68) Replacement of 3,400 LF of 6" and 8" ACP FM, from PS#0364 to NW 199th St/42nd Ave.																																			
Pre-Design																																								
CT20020	Pre-Design - 4.09 (68)	35	29-Aug-14 A	03-Oct-14 A	■ Pre-Design - 4.09 (68)																																			
Engineering Design																																								
CT13901	Engineering Design - 4.09 (68)	405	06-Oct-14 A	15-Nov-15 A	■ Engineering Design - 4.09 (68)																																			
Permitting																																								
CT13911	Permitting - 4.09 (68)	142	16-Nov-15 A	06-Apr-16 A	■ Permitting - 4.09 (68)																																			
Procurement																																								
CT36990	Design Documents Sent to Procurement - 4.09 (68)	0	07-Apr-16 A		◆ Design Documents Sent to Procurement - 4.09 (68)																																			
CT37000	Submit/Approve SBD Goals and Request to Advertise - 4.09 (68)	8	07-Apr-16 A	14-Apr-16 A	■ Submit/Approve SBD Goals and Request to Advertise - 4.09 (68)																																			
CT37010	Advertise Bid Package - 4.09 (68)	0	15-Apr-16 A		◆ Advertise Bid Package - 4.09 (68)																																			
CT37020	Bid Solicitation Period - 4.09 (68)	39	15-Apr-16 A	23-May-16 A	■ Bid Solicitation Period - 4.09 (68)																																			
CT37030	Bids Due - 4.09 (68)	0	23-May-16 A		◆ Bids Due - 4.09 (68)																																			
CT37040	Bid Review Period - 4.09 (68)	3	24-May-16 A	26-May-16 A	■ Bid Review Period - 4.09 (68)																																			
CT37050	Award Recommendation - 4.09 (68)	0		26-May-16 A	◆ Award Recommendation - 4.09 (68)																																			
CT13921	Procurement - 4.09 (68)	84	07-Apr-16 A	29-Jun-16 A	■ Procurement - 4.09 (68)																																			
CT37060	Final Approvals - 4.09 (68)	34	27-May-16 A	29-Jun-16 A	■ Final Approvals - 4.09 (68)																																			
CT50990	P.O. Issued - 4.09 (68)	0		29-Jun-16 A	◆ P.O. Issued - 4.09 (68)																																			
Construction					25-Feb-20, Construction																																			
CT37070	Contractor Notice to Proceed (NTP) - 4.09 (68)	396	12-Sep-16 A	25-Feb-20	■ Contractor Notice to Proceed (NTP) - 4.09 (68)																																			
CT13931	Construction - 4.09 (68)	184	12-Sep-16 A	14-Mar-17 A	■ Construction - 4.09 (68)																																			
CT13941	Substantial Completion (Non-Consent Decree) - 4.09 (68)	0		14-Mar-17 A	◆ Substantial Completion (Non-Consent Decree) - 4.09 (68)																																			
CT40690	Project Closeout - 4.09 (68)	212	15-Mar-17 A	25-Feb-20	■ Project Closeout - 4.09 (68)																																			
Project Administration					25-Feb-20, Project Administration																																			
CT38170	WASD Project Administration - 4.09 (68)	1103	06-Oct-14 A	25-Feb-20	■ WASD Project Administration - 4.09 (68)																																			
4.09 (69) Replacement of 2,320 LF of 12" ACP FM from PS#0333 South to Miami Lakes Dr.					28-Aug-18 A, 4.09 (69) Replacement of 2,320 LF of 12" ACP FM from PS#0333 South to Miami Lakes Dr.																																			
Pre-Design																																								
CT22590	Pre-Design - 4.09 (69)	318	16-Jun-14 A	30-Apr-15 A	■ Pre-Design - 4.09 (69)																																			
Engineering Design																																								
CT37480	30% Design Submittal - 4.09 (69)	29	01-May-15 A	29-May-15 A	■ 30% Design Submittal - 4.09 (69)																																			
CT37490	60% Design Submittal - 4.09 (69)	33	01-Jun-15 A	03-Jul-15 A	■ 60% Design Submittal - 4.09 (69)																																			

Activity ID	Activity Name	Original Duration	Start	Finish	2018-2026																																			
					2018				2019				2020				2021				2022				2023				2024				2025				2026			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
CT14121	Permitting - 4.09 (73)	246	18-Dec-15 A	19-Aug-16 A	Permitting - 4.09 (73)																																			
CT50870	Tree Permit - 4.09 (73)	39	12-Jul-16 A	19-Aug-16 A																																				
Procurement					503																																			
CT80260	Internal Bid Package Review - 4.09 (73)	5	13-Jan-17 A	17-Jan-17 A	02-Mar-18 A, Procurement																																			
CT80370	GMOU submittal and approval - 4.09 (73)	21	20-Feb-17 A	12-Mar-17 A	Review - 4.09 (73);																																			
CT37260	Design Documents Sent to Procurement - 4.09 (73)	0	18-Apr-17 A		nd approval - 4.09 (73)																																			
CT37270	Submit/Approve SBD Goals and Request to Advertise - 4.09 (73)	16	18-Apr-17 A	03-May-17 A	nts Sent to Procurement - 4.09 (73);																																			
CT80530	Resolution of Easement Conflicts - 4.09 (73)	180	04-May-17 A	01-Nov-17 A	e SBD Goals and Request to Advertise - 4.09 (73)																																			
CT80540	Design Documents Re-Sent to Procurement - 4.09 (73)	0	02-Nov-17 A		olution of Easement Conflicts - 4.09 (73);																																			
CT80550	Re-Submit/Approve SBD Goals and Request to Advertise - 4.09 (73)	45	02-Nov-17 A	28-Nov-17 A	sion Documents Re-Sent to Procurement - 4.09 (73)																																			
CT37280	Advertise Bid Package - 4.09 (73)	0	29-Nov-17 A		Re-Submit/Approve SBD Goals and Request to Advertise - 4.09 (73)																																			
CT37290	Bid Solicitation Period - 4.09 (73)	45	29-Nov-17 A	03-Jan-18 A	Advertise Bid Package - 4.09 (73)																																			
CT37300	Bids Due - 4.09 (73)	0	04-Jan-18 A		Bid Solicitation Period - 4.09 (73)																																			
CT37310	Bid Review Period - 4.09 (73)	30	04-Jan-18 A	17-Jan-18 A	Bids Due - 4.09 (73)																																			
CT37320	Award Recommendation - 4.09 (73)	0		17-Jan-18 A	Bid Review Period - 4.09 (73)																																			
CT14131	Procurement - 4.9 (73)	288	18-Apr-17 A	02-Mar-18 A	Award Recommendation - 4.09 (73)																																			
CT37330	Final Approvals - 4.09 (73)	90	18-Jan-18 A	02-Mar-18 A	Procurement - 4.9 (73)																																			
Construction					566																																			
CT37340	Contractor Notice to Proceed (NTP) - 4.09 (73)	0	23-Jul-18 A		Final Approvals - 4.09 (73)																																			
CT14151	Construction - 4.09 (73)	370	23-Jul-18 A	10-Oct-19 A	Contractor Notice to Proceed (NTP) - 4.09 (73)																																			
CT14181	Substantial Completion (Non-Consent Decree) - 4.09 (73)	0		10-Oct-19 A	Construction - 4.09 (73)																																			
CT40740	Project Closeout - 4.09 (73)	90	11-Oct-19 A	14-Feb-20*	Substantial Completion (Non-Consent Decree) - 4.09 (73)																																			
Project Administration					1494																																			
CT38130	WASD Project Administration - 4.09 (73)	1494	03-Apr-15 A	14-Feb-20	Project Closeout - 4.09 (73)																																			
4.10 Opa-Locka Airport 48" PCCP Force Main Replacement					3532																																			
Engineering Design					578																																			
CT71530	EPA Start Date for Engineering Design - Replace 48" PCCP FM @ Opa-Locka Airport**	0	06-Oct-14 A	05-May-16 A	Airport**																																			
CT50890	EPA Compliance Date for Engineering Design - Replace 48" PCCP FM @ Opa-Locka Airport**	0		23-Apr-15 A	P FM @ Opa-Locka Airport**																																			
CT10100	Engineering Design - Replace 48" PCCP FM @ Opa-Locka Airport	506	17-Dec-14 A	05-May-16 A	P FM @ Opa-Locka Airport																																			
Permitting					725																																			
CT71540	EPA Start Date for Permitting - Replace 48" PCCP FM @ Opa-Locka Airport**	0	29-Jul-14 A	23-Jul-16 A	M @ Opa-Locka Airport																																			
CT10180	Permitting - Replace 48" PCCP FM @ Opa-Locka Airport	321	30-Jul-15 A	14-Jun-16 A	ng - Replace 48" PCCP FM @ Opa-Locka Airport																																			
CT50900	EPA Compliance Date for Permitting - Replace 48" PCCP FM @ Opa-Locka Airport	0		23-Jul-16 A	ert																																			
Procurement					239																																			
CT71550	EPA Start Date for Procurement - Replace 48" PCCP FM @ Opa-Locka Airport**	0	04-May-16 A	29-Dec-16 A	Replace 48" PCCP FM @ Opa-Locka Airport**																																			
CT10260	Procurement - Replace 48" PCCP FM @ Opa-Locka Airport	230	04-May-16 A	19-Dec-16 A	48" PCCP FM @ Opa-Locka Airport																																			
CT50910	EPA Compliance Date for Procurement - Replace 48" PCCP FM @ Opa-Locka Airport	0		29-Dec-16 A	for Procurement - Replace 48" PCCP FM @ Opa-Locka Airport																																			
Construction					596																																			
CT71560	EPA Start Date for Construction - Replace 48" PCCP FM @ Opa-Locka Airport	0	12-Oct-16 A	11-May-18 A	11-May-18 A, Construction																																			
CT50920	EPA Compliance Date for Construction - Replace 48" PCCP FM @ Opa-Locka Airport	0		28-Jan-18 A	tion - Replace 48" PCCP FM @ Opa-Locka Airport																																			
CT10330	Construction - Replace 48" PCCP FM @ Opa-Locka Airport	420	12-Oct-16 A	11-May-18 A	EPA Compliance Date for Construction - Replace 48" PCCP FM @ Opa-Locka Airport																																			
CT10400	Substantial Completion (CD Compliance Date 10/25/18) - Replace 48" PCCP FM @ Opa-Locka Airport	0		11-May-18 A	Construction - Replace 48" PCCP FM @ Opa-Locka Airport																																			
4.10 (1) Rehab Existing 48" FM Along North Side of Biscayne Canal from NW 37th Ave. to NW 32nd Ave.					907																																			
Pre-Design					118																																			
CT37600	Negotiate Scope and Fee for Remaining Design - Rehab Existing 48" FM East of Opa Locka Airport	119	17-Aug-15 A	13-Dec-15 A	29-Apr-19 A, 4.10 (1) Rehab Existing 48" FM Along North Side of Biscayne Canal from NW 37th Ave. to NW 32nd Ave.																																			
Engineering Design					143																																			
CT37630	Draft Performance Specifications - Rehab Existing 48" FM East of Opa Locka Airport	124	14-Dec-15 A	05-May-16 A	- Rehab Existing 48" FM East of Opa Locka Airport																																			
CT37640	Performance Specifications Review - Rehab Existing 48" FM East of Opa Locka Airport	7	16-Apr-16 A	22-Apr-16 A	o Existing 48" FM East of Opa Locka Airport																																			
CT37590	Engineering Design - Rehab Existing 48" FM East of Opa Locka Airport	144	14-Dec-15 A	05-May-16 A	hab Existing 48" FM East of Opa Locka Airport																																			
CT37650	Final Performance Specifications Submittal - Rehab Existing 48" FM East of Opa Locka Airport	13	23-Apr-16 A	05-May-16 A	" FM East of Opa Locka Airport																																			
Permitting					1																																			
CT37660	Permitting - Rehab Existing 48" FM East of Opa Locka Airport	2	04-May-16 A	05-May-16 A	ital - Rehab Existing 48" FM East of Opa Locka Airport																																			
Procurement					227																																			
CT37670	Design Documents Sent to Procurement - Rehab Existing 48" FM East of Opa Locka Airport	0	06-May-16 A		t of Opa Locka Airport																																			
CT37680	Submit/Approve SBD Goals and Request to Advertise - Rehab Existing 48" FM East of Opa Locka Airport	22	06-May-16 A	27-May-16 A	ent - Rehab Existing 48" FM East of Opa Locka Airport																																			
CT37700	Advertise Bid Package - Rehab Existing 48" FM East of Opa Locka Airport	0	16-Sep-16 A		est to Advertise - Rehab Existing 48" FM East of Opa Locka Airport																																			
CT37710	Bid Solicitation Period - Rehab Existing 48" FM East of Opa Locka Airport	34	16-Sep-16 A	19-Oct-16 A	o Existing 48" FM East of Opa Locka Airport																																			
CT37720	Bids Due - Rehab Existing 48" FM East of Opa Locka Airport	0	20-Oct-16 A		ab Existing 48" FM East of Opa Locka Airport																																			
CT37730	Bid Review Period - Rehab Existing 48" FM East of Opa Locka Airport	32	20-Oct-16 A	20-Nov-16 A	8" FM East of Opa Locka Airport																																			
CT37740	Award Recommendation - Rehab Existing 48" FM East of Opa Locka Airport	0		21-Nov-16 A	o Existing 48" FM East of Opa Locka Airport																																			
CT37690	Procurement - Rehab Existing 48" FM East of Opa Locka Airport	228	06-May-16 A	19-Dec-16 A	- Rehab Existing 48" FM East of Opa Locka Airport																																			
CT37750	Final Approvals (BCC, Mayor, Risk Mgmt.) - Rehab Existing 48" FM East of Opa Locka Airport	28	22-Nov-16 A	19-Dec-16 A	isting 48" FM East of Opa Locka Airport																																			
Construction					415																																			
CT37760	Contractor Notice to Proceed (NTP) - Rehab Existing 48" FM East of Opa Locka Airport	0	21-Dec-16 A	29-Apr-19 A	ayor, Risk Mgmt.) - Rehab Existing 48" FM East of Opa Locka Airport																																			
CT37770	Construction - Rehab Existing 48" FM East of Opa Locka Airport	311	21-Dec-16 A	27-Oct-17 A	29-Apr-19 A, Construction																																			
CT37780	Substantial Completion (CD Compliance Date 10/25/18) - Rehab Existing 48" FM East of Opa Locka Airport	0		27-Oct-17 A	ceed (NTP) - Rehab Existing 48" FM East of Opa Locka Airport																																			
CT40750	Project Closeout - Rehab Existing 48" FM East of Opa Locka Airport	90	28-Oct-17 A	29-Apr-19 A	struction - Rehab Existing 48" FM East of Opa Locka Airport																																			
Project Administration					774																																			
CT35381	WASD Project Administration - Rehab Existing 48" FM East of Opa Locka Airport	774	14-Dec-15 A	29-Apr-19 A	stantial Completion (CD Compliance Date 10/25/18) - Rehab Existing 48" FM East of Opa Locka Airport																																			
4.10 (2) Opa-Locka Airport 48" PCCP Force Main Replacement (Sections 1 and 2)					1370																																			
Pre-Design					54																																			
CT22150	Negotiate Scope and Fee for Remaining Design - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	55	01-May-15 A	24-Jun-15 A	Project Closeout - Rehab Existing 48" FM East of Opa Locka Airport																																			
Engineering Design					505																																			
CT22140	Basis of Design Report (BODR) - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	184	17-Dec-14 A	18-Jun-15 A	29-Apr-19 A, Project Administration																																			
CT22160	30% Design Submittal - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	47	25-Jun-15 A	10-Aug-15 A	WASD Project Administration - Rehab Existing 48" FM East of Opa Locka Airport																																			

Activity ID	Activity Name	Original Duration	Start	Finish	Timeline (2018-2026)																									
					2018	2019	2020	2021	2022	2023	2024	2025	2026																	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
CT22170	30% Design Review - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	8	11-Aug-15 A	18-Aug-15 A	Opa-Locka Airport (Sections 1 & 2)																									
CT22180	60% Design Submittal - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	91	15-Aug-15 A	13-Nov-15 A	Opa-Locka Airport (Sections 1 & 2)																									
CT22780	60% Design Review - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	7	14-Nov-15 A	20-Nov-15 A	Opa-Locka Airport (Sections 1 & 2)																									
CT22210	100% Design Submittal - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	124	21-Nov-15 A	23-Mar-16 A	PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																									
CT37540	Engineering Design - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	506	17-Dec-14 A	05-May-16 A	PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																									
Permitting																														
CT50240	RER (DERM) / FDEP Permit - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	13	31-Mar-16 A	12-Apr-16 A	PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																									
CT37550	Permitting - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	321	30-Jul-15 A	14-Jun-16 A	PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																									
CT50250	FAA Permit - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	321	30-Jul-15 A	14-Jun-16 A	PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																									
Procurement																														
CT33101	Design Documents Sent to Procurement - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	0	04-May-16 A		nt - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																									
CT33111	Submit/Approve SBD Goals and Request to Advertise - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	24	04-May-16 A	27-May-16 A	Request to Advertise - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																									
CT33121	Advertise Bid Package - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	0	16-Jun-16 A		PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																									
CT33131	Bid Solicitation Period - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	53	16-Jun-16 A	07-Aug-16 A	48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																									
CT33141	Bids Due - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	0	08-Aug-16 A		PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																									
CT33151	Bid Review Period - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	15	08-Aug-16 A	22-Aug-16 A	PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																									
CT33161	Award Recommendation - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	0	22-Aug-16 A		48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																									
CT37580	Procurement - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	146	04-May-16 A	26-Sep-16 A	PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																									
CT33171	Final Approvals (BCC, Mayor, Risk Mgmt.) - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	35	23-Aug-16 A	26-Sep-16 A	Risk Mgmt. - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																									
Construction																														
CT33181	Contractor Notice to Proceed (NTP) - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	0	12-Oct-16 A	31-Jan-20	NTP - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																									
CT37560	Construction - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	420	12-Oct-16 A	11-May-18 A	Construction - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																									
CT37570	Substantial Completion (CD Compliance Date 10/25/18) - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	0	11-May-18 A		Substantial Completion (CD Compliance Date 10/25/18) - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																									
CT40760	Project Closeout - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	90	12-May-18 A	31-Jan-20*	Project Closeout - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																									
Project Administration																														
CT35371	WASD Project Administration - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	1175	17-Dec-14 A	31-Jan-20	WASD Project Administration - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																									
4.10 (3) Replace 16" FM Along NW 159th St. from NW 57th St. to NW 54th St.																														
Pre-Design																														
CT50000	Pre-Design - 4.10 (3)	114	07-Mar-16 A	29-Jun-16 A	Pre-Design - 4.10 (3)																									
Engineering Design																														
CT50010	Engineering Design - 4.10 (3)	132	11-May-16 A	20-Sep-16 A	Engineering Design - 4.10 (3)																									
Permitting																														
CT50260	FDOT Utility Permit - 4.10 (3)	42	10-Sep-16 A	21-Oct-16 A	FDOT Utility Permit - 4.10 (3)																									
CT50280	DERM Sewer Permit - 4.10 (3)	72	21-Sep-16 A	01-Dec-16 A	DERM Sewer Permit - 4.10 (3)																									
CT50020	Permitting - 4.10 (3)	95	20-Sep-16 A	23-Dec-16 A	Permitting - 4.10 (3)																									
CT50270	City Of Miami Gardens Public Works Permit - 4.10 (3)	94	21-Sep-16 A	23-Dec-16 A	City Of Miami Gardens Public Works Permit - 4.10 (3)																									
Procurement																														
CT80070	Design Documents Sent to Procurement - 4.10 (3)	0	28-Nov-16 A		Design Documents Sent to Procurement - 4.10 (3)																									
CT80150	Phase I Procurement (Emergency Project) - 4.10 (3)	6	30-Nov-16 A	05-Dec-16 A	Phase I Procurement (Emergency Project) - 4.10 (3)																									
CT80080	Submit/Approve SBD Goals and Request to Advertise - 4.10 (3)	57	28-Nov-16 A	23-Jan-17 A	Submit/Approve SBD Goals and Request to Advertise - 4.10 (3)																									
CT80090	Advertise Bid Package - 4.10 (3)	0	24-Jan-17 A		Advertise Bid Package - 4.10 (3)																									
CT80100	Bid Solicitation Period - 4.10 (3)	35	24-Jan-17 A	27-Feb-17 A	Bid Solicitation Period - 4.10 (3)																									
CT80110	Bids Due - 4.10 (3)	0	28-Feb-17 A		Bids Due - 4.10 (3)																									
CT80120	Bid Review Period - 4.10 (3)	22	28-Feb-17 A	21-Mar-17 A	Bid Review Period - 4.10 (3)																									
CT80130	Award Recommendation - 4.10 (3)	0	21-Mar-17 A		Award Recommendation - 4.10 (3)																									
CT50030	Procurement - 4.10 (3)	232	28-Nov-16 A	17-Jul-17 A	Procurement - 4.10 (3)																									
CT80140	Final Approvals (BCC, Mayor, Risk Mgmt.) - 4.10 (3)	118	22-Mar-17 A	17-Jul-17 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - 4.10 (3)																									
CT80500	P.O. Issued - 4.10 (3)	0	17-Jul-17 A		P.O. Issued - 4.10 (3)																									
Construction																														
CT80160	Phase I Construction (Emergency Project) - 4.10 (3)	60	06-Dec-16 A	03-Feb-17 A	Phase I Construction (Emergency Project) - 4.10 (3)																									
CT80380	Contractor Notice to Proceed (NTP) - (Remaining Scope of Work) - 4.10 (3)	0	24-Jul-17 A		Contractor Notice to Proceed (NTP) - (Remaining Scope of Work) - 4.10 (3)																									
CT50040	Construction - 4.10 (3)	410	06-Dec-16 A	14-Dec-17 A	Construction - 4.10 (3)																									
CT80170	Construction (Remaining Scope of Work) - 4.10 (3)	180	24-Jul-17 A	14-Dec-17 A	Construction (Remaining Scope of Work) - 4.10 (3)																									
CT50050	Substantial Completion - 4.10 (3)	0	14-Dec-17 A		Substantial Completion - 4.10 (3)																									
CT50060	Project Closeout - 4.10 (3)	90	15-Dec-17 A	04-Sep-18 A	Project Closeout - 4.10 (3)																									
Project Administration																														
CT80800	WASD Project Administration - 4.10 (3)	709	11-May-16 A	04-Sep-18 A	WASD Project Administration - 4.10 (3)																									
4.10 (4) Opa-Locka Airport Concessions Project																														
Pre-Design																														
CT80000	Pre-Design - 4.10 (4)	447	12-Oct-16 A	17-Jul-18 A	Pre-Design - 4.10 (4)																									
Engineering Design																														
CT81170	30% Design Submittal - 4.10 (4)	150	17-Jul-18 A	27-Jun-19 A	30% Design Submittal - 4.10 (4)																									
CT81180	30% Design Review - 4.10 (4)	30	28-Jun-19 A	06-Nov-19 A	30% Design Review - 4.10 (4)																									
CT81190	75% Design Submittal - 4.10 (4)	167	07-Nov-19 A	21-Apr-20	75% Design Submittal - 4.10 (4)																									
CT81200	75% Design Review - 4.10 (4)	7	22-Apr-20	28-Apr-20	75% Design Review - 4.10 (4)																									
CT81210	100% Design Submittal - 4.10 (4)	173	29-Apr-20	18-Oct-20	100% Design Submittal - 4.10 (4)																									
CT80010	Engineering Design - 4.10 (4)	150	17-Jul-18 A	01-Nov-20	Engineering Design - 4.10 (4)																									
CT81220	100% Design Review/Permit Ready Submittal - 4.10 (4)	14	19-Oct-20	01-Nov-20	100% Design Review/Permit Ready Submittal - 4.10 (4)																									
Permitting																														
CT80020	Permitting - 4.10 (4)	334	02-Nov-20	01-Oct-21	Permitting - 4.10 (4)																									
Procurement																														
CT80030	Procurement - 4.10 (4)	270	02-Oct-21	28-Jun-22	Procurement - 4.10 (4)																									
Construction																														
CT81060	Notice to Proceed (NTP) - 4.10 (4)	0	29-Jun-22		Notice to Proceed (NTP) - 4.10 (4)																									
CT80040	Construction - 4.10 (4)	550	29-Jun-22	30-Dec-23	Construction - 4.10 (4)																									

Activity ID	Activity Name	Original Duration	Start	Finish	Timeline (2018-2026)																															
					2018				2019				2020				2021				2022				2023				2024				2025		2026	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
CT81130	Commissioning - 4.10 (4)	30	01-Dec-23	30-Dec-23	█ Commissioning - 4.10 (4)																															
CT80050	Substantial Completion (Not Consent Decree) - 4.10 (4)	0		30-Dec-23	◆ Substantial Completion (Not Consent Decree) - 4.10 (4)																															
CT80060	Project Closeout - 4.10 (4)	90	31-Dec-23	29-Mar-24*	█ Project Closeout - 4.10 (4)																															
Project Administration																																				
CT80810	WASD Project Administration - 4.10 (4)	1674	17-Jul-18 A	29-Mar-24	█ WASD Project Administration - 4.10 (4)																															
5. Sewer Pump Station System		4135	12-Dec-10 A	07-Apr-22	█ 5. Sewer Pump Station System																															
5.01 Upgrade of PS#0418		2356	01-Nov-13 A	02-Mar-20	█ 5.01 Upgrade of PS#0418																															
Engineering Design		217	01-Nov-13 A	06-Jun-14 A																																
PS51540	EPA Start Date for Engineering Design - Upgrade PS#0418	0	01-Nov-13 A																																	
PS10040	Engineering Design - Upgrade PS#0418	192	01-Nov-13 A	12-May-14 A																																
PS50820	EPA Compliance Date for Engineering Design - Upgrade PS#0418	0		06-Jun-14 A																																
Permitting		395	14-Jul-14 A	13-Aug-15 A																																
PS51550	EPA Start Date for Permitting - Upgrade PS#0418**	0	14-Jul-14 A																																	
PS50830	EPA Compliance Date for Permitting - Upgrade PS#0418**	0		17-Jun-15 A																																
PS10190	Permitting - Upgrade PS#0418	389	21-Jul-14 A	13-Aug-15 A																																
Procurement		364	07-Jun-15 A	05-Jun-16 A																																
PS51560	EPA Start Date for Procurement - Upgrade PS#0418**	0	07-Jun-15 A																																	
PS32740	Design Documents Sent to Procurement	0	18-Sep-15 A																																	
PS32750	Submit/Approve SBD Goals and Request to Advertise - Upgrade PS#0418	42	18-Sep-15 A	29-Oct-15 A																																
PS32770	Advertise Bid Package - Upgrade PS#0418	0	30-Oct-15 A																																	
PS32780	Bid Solicitation Period - Upgrade PS#0418	50	30-Oct-15 A	18-Dec-15 A																																
PS32790	Bids Due - Upgrade PS#0418	0	18-Dec-15 A																																	
PS32800	Bid Review Period - Upgrade PS#0418	98	19-Dec-15 A	25-Mar-16 A																																
PS32810	Award Recommendation - Upgrade PS#0418	0		25-Mar-16 A																																
PS10360	Procurement - Upgrade PS#0418	289	13-Aug-15 A	27-May-16 A																																
PS32820	Final Approvals (BCC, Mayor, Risk Mgmt.) - Upgrade PS#0418	63	26-Mar-16 A	27-May-16 A																																
PS50840	EPA Compliance Date for Procurement - Upgrade PS#0418	0		05-Jun-16 A																																
Construction		1417	28-May-16 A	02-Mar-20																																
PS32830	Contractor Notice to Proceed (NTP) - Upgrade PS#0418	0	28-May-16 A																																	
PS51570	EPA Start Date for Construction - Upgrade PS#0418	0	06-Jun-16 A																																	
PS11111	City of Hialeah Completes Reroute of Gravity Mains from PS#418 to PS#200	0		17-Nov-16 A																																
PS50850	EPA Compliance Date for Construction - Upgrade PS#0418	0		22-Oct-19 A																																
PS10550	Construction - Upgrade PS#0418	724	28-May-16 A	08-Nov-19 A																																
PS72990	Commissioning - Upgrade PS#0418	30	17-Jun-19 A	08-Nov-19 A																																
PS10830	Construction Completion (CD Compliance Date 10/22/19) - Upgrade PS#0418	0		08-Nov-19 A																																
PS40770	Project Closeout - Upgrade PS#0418	115	09-Nov-19 A	02-Mar-20*																																
Project Administration		1703	01-Nov-13 A	02-Mar-20																																
PS35360	WASD Project Administration - Upgrade PS#0418	1703	01-Nov-13 A	02-Mar-20																																
5.02 Upgrade of PS#0691		2066	04-Aug-14 A	06-Feb-20	█ 5.02 Upgrade of PS#0691																															
Pre-Design		112	04-Aug-14 A	24-Nov-14 A																																
PS20010	Pre-Design - Upgrade PS#0691	113	04-Aug-14 A	24-Nov-14 A																																
Engineering Design		703	07-Oct-14 A	09-Sep-16 A																																
PS51580	EPA Start Date for Engineering Design - Upgrade PS#0691**	0	07-Oct-14 A																																	
PS10120	Engineering Design - Upgrade PS#0691	126	26-Nov-14 A	31-Mar-15 A																																
PS31230	Design (City of Homestead) - Upgrade PS#0691	86	05-Jan-15 A	31-Mar-15 A																																
PS20000	Basis of Design Report (BODR) - Upgrade PS#0691	178	26-Nov-14 A	22-May-15 A																																
PS31180	BODR Review Period - Upgrade PS#0691	26	25-May-15 A	19-Jun-15 A																																
PS50860	EPA Compliance Date for Engineering Design - Upgrade PS#0691**	0		09-Sep-16 A																																
Permitting		941	10-Aug-14 A	08-Mar-17 A																																
PS51590	EPA Start Date for Permitting - Upgrade PS#0691**	0	10-Aug-14 A																																	
PS10280	Permitting (City of Homestead) - Upgrade PS#0691	121	01-Apr-15 A	30-Jul-15 A																																
PS50870	EPA Compliance Date for Permitting - Upgrade PS#0691	0		08-Mar-17 A																																
Procurement		884	31-Jul-15 A	03-Dec-17 A																																
PS10450	Procurement (City of Homestead) - Upgrade PS#0691	169	31-Jul-15 A	15-Jan-16 A																																
PS51600	EPA Start Date for Procurement - Upgrade PS#0691	0	09-Mar-17 A																																	
PS50880	EPA Compliance Date for Procurement - Upgrade PS#0691	0		03-Dec-17 A																																
Construction		1183	03-Jan-17 A	06-Feb-20																																
PS32930	Contractor Notice to Proceed (NTP) - Upgrade PS#0691	0	03-Jan-17 A																																	
PS51610	EPA Start Date for Construction - Upgrade PS#0691	0	04-Dec-17 A																																	
PS50890	EPA Compliance Date for Construction - Upgrade PS#0691	0		27-Jan-19 A																																
PS10650	Construction (City of Homestead) - Upgrade PS#0691	394	03-Jan-17 A	08-Nov-19 A																																
PS10850	Substantial Completion (CD Compliance Date 1/27/19) - Upgrade PS#0691	0		08-Nov-19 A																																
PS40780	Project Closeout - Upgrade PS#0691	90	09-Nov-19 A	06-Feb-20*																																
Project Administration		1253	26-Nov-14 A	06-Feb-20																																
PS35350	WASD Project Administration - Upgrade PS#0691	1253	26-Nov-14 A	06-Feb-20																																
5.03 Upgrade of PS#0692		2169	04-Aug-14 A	11-Jul-20	█ 5.03 Upgrade of PS#0692																															
Pre-Design		112	04-Aug-14 A	24-Nov-14 A																																
PS20080	Pre-Design - Upgrade PS#0692	113	04-Aug-14 A	24-Nov-14 A																																
Engineering Design		713	26-Nov-14 A	08-Nov-16 A																																
PS51620	EPA Start Date for Engineering Design - Upgrade PS#0692	0	07-Dec-14 A																																	
PS50900	EPA Compliance Date for Engineering Design - Upgrade PS#0692**	0		15-May-15 A																																
PS20090	Basis of Design Report (BODR) - Upgrade PS#0692	248	26-Nov-14 A	31-Jul-15 A																																
PS20120	BODR Review Period - Upgrade PS#0692	68	03-Aug-15 A	09-Oct-15 A																																
PS31370	Negotiate Scope & Fee of Remaining Design - Upgrade PS#0692	277	21-Aug-15 A	23-May-16 A																																

Activity ID	Activity Name	Original Duration	Start	Finish	2018		2019				2020				2021				2022				2023				2024				2025		2026		
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
Permitting					1116	10-Aug-14 A	30-Aug-17 A																												
PS51710	EPA Start Date for Permitting - PS#0415**	0	10-Aug-14 A																																
PS50250	DERM Permit Submittal - PS#0415	0	31-May-16 A																																
PS50270	Derm Permit Submittal Review - PS#0415	62	01-Jun-16 A	01-Aug-16 A																															
PS50310	A/E Prepares/Submits Responses to DERM Permit Submittal - PS#0415	31	02-Aug-16 A	01-Sep-16 A																															
PS50260	Municipality Bldg. Dept. Submittal - PS#0415	0	28-Sep-16 A																																
PS50330	DERM Permit Approval - PS#0415	104	02-Sep-16 A	14-Dec-16 A																															
PS50290	Municipality Bldg. Dept. Submittal Review - PS#0415	186	28-Sep-16 A	01-Apr-17 A																															
PS50320	A/E Prepares/Submits Responses to Municipality Bldg. Dept. Submittal - PS#0415	34	02-Apr-17 A	05-May-17 A																															
PS10270	Permitting - PS#0415	365	31-May-16 A	30-May-17 A																															
PS50340	Municipality Bldg. Dept. Submittal Approval - PS#0415	25	06-May-17 A	30-May-17 A																															
PS50990	EPA Compliance Date for Permitting - PS#0415	0		30-Aug-17 A																															
Procurement					348	17-Nov-16 A	15-Oct-17 A																												
PS32380	Design Documents Sent to Procurement - PS#0415	0	17-Nov-16 A																																
PS51720	EPA Start Date for Procurement - PS#0415	0	03-Dec-16 A																																
PS32390	Submit/Approve SBD Goals and Request to Advertise - PS#0415	197	17-Nov-16 A	01-Jun-17 A																															
PS32400	Advertise Bid Package - PS#0415	0	02-Jun-17 A																																
PS32410	Bid Solicitation Period - PS#0415	56	02-Jun-17 A	27-Jul-17 A																															
PS32420	Bids Due - PS#0415	0	28-Jul-17 A																																
PS32430	Bid Review Period - PS#0415	54	28-Jul-17 A	19-Sep-17 A																															
PS32440	Award Recommendation - PS#0415	0		19-Sep-17 A																															
PS10440	Procurement - PS#0415	328	17-Nov-16 A	10-Oct-17 A																															
PS32450	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0415	21	20-Sep-17 A	10-Oct-17 A																															
PS51000	EPA Compliance Date for Procurement - PS#0415	0		15-Oct-17 A																															
Construction					1065	11-Oct-17 A	30-Sep-20																												
PS32460	Contractor Notice to Proceed (NTP) - PS#0415	0	11-Oct-17 A																																
PS51730	EPA Start Date for Construction - PS#0415	0	16-Oct-17 A																																
PS723780	FPL Connection - PS#0415	0		24-Jun-19 A																															
PS51010	EPA Compliance Date for Construction - PS#0415	0		02-Sep-19 A																															
PS10640	Construction - PS#0415	421	11-Oct-17 A	13-Nov-19 A																															
PS723020	Commissioning - PS#0415	30	12-Jul-19 A	13-Nov-19 A																															
PS10870	Construction Completion (CD Compliance Date 9/02/19) - PS#0415	0		13-Nov-19 A																															
PS40000	Project Closeout - PS#0415	30	14-Nov-19 A	30-Sep-20																															
Project Administration					1456	09-Feb-15 A	30-Sep-20																												
PS35320	WASD Project Administration - PS#0415	1456	09-Feb-15 A	30-Sep-20																															
5.06 Replacement of Switchgear PS#0416					1800	07-Oct-14 A	15-Apr-20																												
Pre-Design					110	18-Oct-14 A	05-Feb-15 A																												
PS20260	Pre-Design - PS#0416	111	18-Oct-14 A	05-Feb-15 A																															
Engineering Design					595	07-Oct-14 A	24-May-16 A																												
PS51740	EPA Start Date for Engineering Design - PS#0416**	0	07-Oct-14 A																																
PS51020	EPA Compliance Date for Engineering Design - PS#0416**	0		13-May-15 A																															
PS30600	Basis of Design Report (BODR) - PS#0416	117	06-Feb-15 A	02-Jun-15 A																															
PS30610	BODR Review Period - PS#0416	34	03-Jun-15 A	06-Jul-15 A																															
PS31270	Negotiate Scope & Fee of Remaining Design - PS#0416	153	08-Jul-15 A	07-Dec-15 A																															
PS30620	30% Design Submittal - PS#0416	77	29-Sep-15 A	14-Dec-15 A																															
PS30630	30% Design Review - PS#0416	10	15-Dec-15 A	24-Dec-15 A																															
PS30640	60% Design Submittal - PS#0416	46	25-Dec-15 A	08-Feb-16 A																															
PS30650	60% Design Review - PS#0416	21	09-Feb-16 A	29-Feb-16 A																															
PS10080	Engineering Design - PS#0416	474	06-Feb-15 A	24-May-16 A																															
PS30660	100% Design Submittal - PS#0416	99	16-Feb-16 A	24-May-16 A																															
Permitting					748	14-May-15 A	31-May-17 A																												
PS51750	EPA Start Date for Permitting - PS#0416**	0	14-May-15 A																																
PS50130	DERM Permit Submittal - PS#0416	0	25-May-16 A																																
PS50150	Derm Permit Submittal Review - PS#0416	23	25-May-16 A	16-Jun-16 A																															
PS50190	A/E Prepares/Submits Responses to DERM Permit Submittal - PS#0416	77	17-Jun-16 A	01-Sep-16 A																															
PS50120	Bldg. Dept. Permit Submittal - PS#0416	0	29-Sep-16 A																																
PS50160	Bldg. Dept. Permit Submittal Review - PS#0416	55	29-Sep-16 A	22-Nov-16 A																															
PS50210	DERM Permit Approval - PS#0416	104	02-Sep-16 A	14-Dec-16 A																															
PS50180	A/E Prepares/Submits Responses to Bldg. Dept. Permit Submittal - PS#0416	144	23-Nov-16 A	15-Apr-17 A																															
PS10230	Permitting - PS#0416	351	24-May-16 A	09-May-17 A																															
PS50230	Bldg. Dept. Permit Approval - PS#0416	24	16-Apr-17 A	09-May-17 A																															
PS51030	EPA Compliance Date for Permitting - PS#0416	0		31-May-17 A																															
Procurement					799	08-Jun-15 A	15-Aug-17 A																												
PS51760	EPA Start Date for Procurement - PS#0416**	0	08-Jun-15 A																																
PS32470	Design Documents Sent to Procurement - PS#0416	0	15-Nov-16 A																																
PS32480	Submit/Approve SBD Goals and Request to Advertise - PS#0416	127	15-Nov-16 A	21-Mar-17 A																															
PS32490	Advertise Bid Package - PS#0416	0	22-Mar-17 A																																
PS32500	Bid Solicitation Period - PS#0416	36	22-Mar-17 A	26-Apr-17 A																															
PS32510	Bids Due - PS#0416	0	27-Apr-17 A																																
PS32520	Bid Review Period - PS#0416	41	27-Apr-17 A	06-Jun-17 A																															
PS32530	Award Recommendation - PS#0416	0		06-Jun-17 A																															
PS10400	Procurement - PS#0416	246	15-Nov-16 A	18-Jul-17 A																															
PS32540	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0416	42	07-Jun-17 A	18-Jul-17 A																															
PS51040	EPA Compliance Date for Procurement - PS#0416	0		15-Aug-17 A																															

Activity ID	Activity Name	Original Duration	Start	Finish	2018				2019				2020				2021				2022				2023				2024				2025				2026			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Construction					783																																			
PS32550	Contractor Notice to Proceed (NTP) - PS#0416	0	20-Jul-17 A	15-Apr-20	15-Apr-20, Construction																																			
PS51770	EPA Start Date for Construction - PS#0416	0	16-Aug-17 A		Contractor Notice to Proceed (NTP) - PS#0416																																			
PS723800	FPL Connection - PS#0416	0		13-Mar-19 A	FPL Connection - PS#0416																																			
PS10590	Construction - PS#0416	300	20-Jul-17 A	11-Jun-19 A	Construction - PS#0416																																			
PS723030	Commissioning - PS#0416	59	18-Mar-19 A	11-Jun-19 A	Commissioning - PS#0416																																			
PS10780	Substantial Completion (CD Compliance Date 6/13/19) - PS#0416	0		11-Jun-19 A	Substantial Completion (CD Compliance Date 6/13/19) - PS#0416																																			
PS51050	EPA Compliance Date for Construction - PS#0416	0		13-Jun-19 A	EPA Compliance Date for Construction - PS#0416																																			
PS40810	Project Closeout - PS#0416	63	12-Jun-19 A	15-Apr-20*	Project Closeout - PS#0416																																			
Project Administration					1255																																			
PS35310	WASD Project Administration - PS#0416	1255	06-Feb-15 A	15-Apr-20	WASD Project Administration - PS#0416																																			
5.07 Replacement of Switchgear and Rehabilitation of Wetwell PS#0417					2197																																			
Pre-Design					128																																			
PS20270	Pre-Design - PS#0417	129	30-Sep-14 A	05-Feb-15 A																																				
Engineering Design					601																																			
PS51780	EPA Start Date for Engineering Design - PS#0417**	0	07-Oct-14 A																																					
PS30670	Basis of Design Report (BODR) - PS#0417	130	06-Feb-15 A	15-Jun-15 A																																				
PS30680	BODR Review Period - PS#0417	120	16-Jun-15 A	13-Oct-15 A																																				
PS31280	Negotiate Scope & Fee of Remaining Design - PS#0417	147	23-Jul-15 A	16-Dec-15 A																																				
PS30690	30% Design Submittal - PS#0417	76	14-Oct-15 A	28-Dec-15 A																																				
PS30700	30% Design Review - PS#0417	15	29-Dec-15 A	12-Jan-16 A																																				
PS30710	60% Design Submittal - PS#0417	46	13-Jan-16 A	27-Feb-16 A																																				
PS30720	60% Design Review - PS#0417	13	28-Feb-16 A	11-Mar-16 A																																				
PS51060	EPA Compliance Date for Engineering Design - PS#0417**	0		16-Apr-16 A																																				
PS10130	Engineering Design - PS#0417	480	06-Feb-15 A	30-May-16 A																																				
PS30730	100% Design Submittal - PS#0417	78	14-Mar-16 A	30-May-16 A																																				
Permitting					1087																																			
PS51790	EPA Start Date for Permitting - PS#0417**	0	10-Aug-14 A																																					
PS50020	DERM Permit Submittal - PS#0417	0	31-May-16 A																																					
PS50030	Dem Permit Submittal Review - PS#0417	14	01-Jun-16 A	14-Jun-16 A																																				
PS50070	A/E Prepares/Submits Responses to DERM Permit Submittal - PS#0417	79	15-Jun-16 A	01-Sep-16 A																																				
PS50000	Bldg. Dept. Permit Submittal - PS#0417	0	29-Sep-16 A																																					
PS50100	DERM Permit Approval - PS#0417	77	02-Sep-16 A	17-Nov-16 A																																				
PS50010	Bldg. Dept. Permit Submittal Review - PS#0417	53	29-Sep-16 A	20-Nov-16 A																																				
PS50060	A/E Prepares/Submits Responses to Bldg. Dept. Permit Submittal - PS#0417	146	21-Nov-16 A	15-Apr-17 A																																				
PS51070	EPA Compliance Date for Permitting - PS#0417**	0		31-Jul-17 A																																				
PS10290	Permitting - PS#0417	429	30-May-16 A	01-Aug-17 A																																				
PS50090	Bldg. Dept. Permit Approval - PS#0417	108	16-Apr-17 A	01-Aug-17 A																																				
Procurement					451																																			
PS32560	Design Documents Sent to Procurement - PS#0417	0	09-Dec-16 A	25-Jan-18 A																																				
PS51800	EPA Start Date for Procurement - PS#0417	0	01-Feb-17 A																																					
PS32570	Submit/Approve SBD Goals and Request to Advertise - PS#0417	195	09-Dec-16 A	21-Jun-17 A																																				
PS32580	Advertise Bid Package - PS#0417	0	22-Jun-17 A																																					
PS32590	Bid Solicitation Period - PS#0417	63	22-Jun-17 A	23-Aug-17 A																																				
PS32600	Bids Due - PS#0417	0	24-Aug-17 A																																					
PS51080	EPA Compliance Date for Procurement - PS#0417	0		30-Sep-17 A																																				
PS32610	Bid Review Period - PS#0417	51	24-Aug-17 A	28-Dec-17 A																																				
PS32620	Award Recommendation - PS#0417	0		28-Dec-17 A																																				
PS10460	Procurement - PS#0417	326	09-Dec-16 A	25-Jan-18 A																																				
PS32630	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0417	17	29-Dec-17 A	25-Jan-18 A																																				
Construction					1019																																			
PS51810	EPA Start Date for Construction - PS#0417**	0	01-Oct-17 A	14-Aug-20	14-Aug-20, Construction																																			
PS32640	Contractor Notice to Proceed (NTP) - PS#0417	0	12-Feb-18 A		Contractor Notice to Proceed (NTP) - PS#0417																																			
PS723810	FPL Connection - PS#0417	0		31-Mar-20*	FPL Connection - PS#0417																																			
PS10660	Construction - PS#0417	420	12-Feb-18 A	15-Jun-20	Construction - PS#0417																																			
PS723040	Commissioning - PS#0417	40	07-May-20	15-Jun-20	Commissioning - PS#0417																																			
PS10880	Substantial Completion (CD Compliance Date 7/25/20) - PS#0417	0		15-Jun-20*	Substantial Completion (CD Compliance Date 7/25/20) - PS#0417																																			
PS51090	EPA Compliance Date for Construction - PS#0417	0		25-Jul-20*	EPA Compliance Date for Construction - PS#0417																																			
PS40820	Project Closeout - PS#0417	60	16-Jun-20	14-Aug-20*	Project Closeout - PS#0417																																			
Project Administration					1478																																			
PS35300	WASD Project Administration - PS#0417	1478	06-Feb-15 A	14-Aug-20	WASD Project Administration - PS#0417																																			
5.08 Replacement of Electrical and Mechanical Equipment in PS#0107					1635																																			
Pre-Design					63																																			
PS20470	Pre-Design - PS#0107	64	06-Apr-15 A	08-Jun-15 A																																				
Engineering Design					703																																			
PS51820	EPA Start Date for Engineering Design - PS#0107**	0	07-Oct-14 A																																					
PS30760	30% Design Submittal - PS#0107	25	08-Jun-15 A	03-Jul-15 A																																				
PS30770	30% Design Review - PS#0107	6	04-Jul-15 A	09-Jul-15 A																																				
PS30780	60% Design Submittal - PS#0107	32	10-Jul-15 A	10-Aug-15 A																																				
PS30790	60% Design Review - PS#0107	7	11-Aug-15 A	17-Aug-15 A																																				
PS30800	100% Design Submittal - PS#0107	37	11-Aug-15 A	16-Sep-15 A																																				
PS10150	Engineering Design - PS#0107	100	08-Jun-15 A	16-Sep-15 A																																				
PS51100	EPA Compliance Date for Engineering Design - PS#0107	0		09-Sep-16 A																																				
Permitting					941																																			
			10-Aug-14 A	08-Mar-17 A																																				

Activity ID	Activity Name	Original Duration	Start	Finish	2018				2019				2020				2021				2022				2023				2024				2025				2026	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
5.16 (1) Pump Station 0198 Compliance Project					28-Feb-19 A, 5.16 (1) Pump Station 0198 Compliance Project																																	
Pre-Design																																						
PS20290	Pre-Design - PS#0198 Compliance Project	179	03-Nov-14 A	30-Apr-15 A																																		
Engineering Design																																						
PS12352	Engineering Design - PS#0198 Compliance Project	96	01-May-15 A	04-Aug-15 A																																		
Permitting																																						
PS12362	Permitting - PS#0198 Compliance Project	67	10-Aug-15 A	15-Oct-15 A																																		
Procurement																																						
PS33300	Design Documents Sent to Procurement - PS#0198 Compliance Project	0	04-Nov-15 A																																			
PS33310	Submit/Approve SBD Goals and Request to Advertise - PS#0198 Compliance Project	26	04-Nov-15 A	29-Nov-15 A																																		
PS33320	Advertise Bid Package - PS#0198 Compliance Project	0	07-Dec-15 A																																			
PS33330	Bid Solicitation Period - PS#0198 Compliance Project	31	07-Dec-15 A	06-Jan-16 A																																		
PS33340	Bids Due - PS#0198 Compliance Project	0	06-Jan-16 A																																			
PS33350	Bid Review Period - PS#0198 Compliance Project	20	06-Jan-16 A	25-Jan-16 A																																		
PS41140	Bid Cancellation - PS#0198 Compliance Project	3	26-Jan-16 A	28-Jan-16 A																																		
PS41150	Re-Bid Solicitation - PS#0198 Compliance Project	30	09-Feb-16 A	09-Mar-16 A																																		
PS41160	Re-Bids Due - PS#0198 Compliance Project	0	10-Mar-16 A																																			
PS41170	Re-Bid Review Period - PS#0198 Compliance Project	14	10-Mar-16 A	23-Mar-16 A																																		
PS33360	Award Recommendation - PS#0198 Compliance Project	0		23-Mar-16 A																																		
PS12372	Procurement - PS#0198 Compliance Project	163	04-Nov-15 A	14-Apr-16 A																																		
PS33370	Final Approvals - PS#0198 Compliance Project	22	24-Mar-16 A	14-Apr-16 A																																		
PS50780	P.O. Issued - PS#0198 Compliance Project	0		14-Apr-16 A																																		
Construction					28-Feb-19 A, Construction																																	
PS33380	Contractor Notice to Proceed (NTP) - PS#0198 Compliance Project	0	25-Apr-16 A																																			
PS12382	Construction - PS#0198 Compliance Project	562	18-Apr-16 A	24-Jan-18 A																																		
PS12392	Substantial Completion - PS#0198 Compliance Project	0		24-Jan-18 A																																		
PS40880	Project Closeout - PS#0198 Compliance Project	90	25-Jan-18 A	28-Feb-19 A																																		
Project Administration																																						
PS35240	WASD Project Administration - PS#0198 Compliance Project	1005	01-May-15 A	28-Feb-19 A																																		
5.16 (2) Pump Station No. 0437 Upgrade					28-Mar-19 A, 5.16 (2) Pump Station No. 0437 Upgrade																																	
Pre-Design																																						
PS20300	Pre-Design -PS#0437 Upgrade	179	03-Nov-14 A	30-Apr-15 A																																		
Engineering Design																																						
PS12402	Engineering Design - PS#0437 Upgrade	96	01-May-15 A	04-Aug-15 A																																		
Permitting																																						
PS12412	Permitting - PS#0437 Upgrade	68	10-Aug-15 A	16-Oct-15 A																																		
Procurement																																						
PS33390	Design Documents Sent to Procurement - PS#0437 Upgrade	0	24-Nov-15 A																																			
PS33410	Advertise Bid Package - PS#0437 Upgrade	0	09-Dec-15 A																																			
PS33400	Submit/Approve SBD Goals and Request to Advertise - PS#0437 Upgrade	46	24-Nov-15 A	08-Jan-16 A																																		
PS33420	Bid Solicitation Period - PS#0437 Upgrade	31	09-Dec-15 A	08-Jan-16 A																																		
PS33430	Bids Due - PS#0437 Upgrade	0	09-Jan-16 A																																			
PS33440	Bid Review Period - PS#0437 Upgrade	12	09-Jan-16 A	20-Jan-16 A																																		
PS33450	Award Recommendation - PS#0437 Upgrade	0		20-Jan-16 A																																		
PS33460	Final Approvals -PS#0437 Upgrade	28	21-Jan-16 A	17-Feb-16 A																																		
PS50790	P.O. Issued - PS#0437 Upgrade	0		17-Feb-16 A																																		
PS12422	Procurement - PS#0437 Upgrade	146	24-Nov-15 A	17-Apr-16 A																																		
Construction					28-Mar-19 A, Construction																																	
PS33470	Contractor Notice to Proceed (NTP) - PS#0437 Upgrade	0	18-Apr-16 A																																			
PS12432	Construction - PS#0437 Upgrade	243	02-May-16 A	30-Dec-16 A																																		
PS12442	Substantial Completion (CD Compliance Date 12/31/18) - PS#0437 Upgrade	0		30-Dec-16 A																																		
PS40890	Project Closeout - PS#0437 Upgrade	274	31-Dec-16 A	28-Mar-19 A																																		
Project Administration																																						
PS35230	WASD Project Administration - PS#0437 Upgrade	884	01-May-15 A	28-Mar-19 A																																		
5.16 (3) Pump Station 0466 Compliance Project					Oct-17 A, 5.16 (3) Pump Station 0466 Compliance Project																																	
Pre-Design																																						
PS20310	Pre-Design - PS#0466 Compliance Project	264	03-Nov-14 A	24-Jul-15 A																																		
Engineering Design																																						
PS12452	Engineering Design - PS#0466 Compliance Project	67	27-Jul-15 A	02-Oct-15 A																																		
Permitting																																						
PS12462	Permitting - PS#0466 Compliance Project	1	02-Oct-15 A	02-Oct-15 A																																		
Procurement																																						
PS33480	Design Documents Sent to Procurement - PS#0466 Compliance Project	115	26-Feb-16 A	20-Jun-16 A																																		
PS33490	Submit/Approve SBD Goals and Request to Advertise - PS#0466 Compliance Project	0	26-Feb-16 A																																			
PS33500	Advertise Bid Package - PS#0466 Compliance Project	18	26-Feb-16 A	14-Mar-16 A																																		
PS33510	Bid Solicitation Period - PS#0466 Compliance Project	0	15-Mar-16 A																																			
PS33520	Bids Due - PS#0466 Compliance Project	32	15-Mar-16 A	15-Apr-16 A																																		
PS33530	Bid Review Period - PS#0466 Compliance Project	0	15-Apr-16 A																																			
PS33540	Award Recommendation - PS#0466 Compliance Project	8	15-Apr-16 A	22-Apr-16 A																																		
PS33550	Final Approvals - PS#0466 Compliance Project	0		22-Apr-16 A																																		
PS12472	Procurement - PS#0466 Compliance Project	116	26-Feb-16 A	20-Jun-16 A																																		
PS33550	Final Approvals - PS#0466 Compliance Project	59	23-Apr-16 A	20-Jun-16 A																																		
PS50810	P.O. Issued - PS#0466 Compliance Project	0		20-Jun-16 A																																		
Construction					Oct-17 A, Construction																																	
PS33560	Contractor Notice to Proceed (NTP) - PS#0466 Compliance Project	0	11-Jul-16 A																																			
PS12482	Construction - PS#0466 Compliance Project	103	11-Jul-16 A	21-Oct-16 A																																		

Activity ID	Activity Name	Original Duration	Start	Finish	2018				2019				2020				2021				2022				2023				2024				2025				2026			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PS12492	Substantial Completion (CD Compliance Date 12/31/18) - PS#0466 Compliance Project	0		21-Oct-16 A	Compliance Date 12/31/18) - PS#0466 Compliance Project																																			
PS40900	Project Closeout - PS#0466 Compliance Project	344	22-Oct-16 A	27-Oct-17 A	Project Closeout - PS#0466 Compliance Project																																			
Project Administration					Project Administration																																			
PS35220	WASD Project Administration - PS#0466 Compliance Project	797	27-Jul-15 A	27-Oct-17 A	WASD Project Administration - PS#0466 Compliance Project																																			
5.16 (4) Pump Station 0680 Upgrade					5.16 (4) Pump Station 0680 Upgrade																																			
Pre-Design					Pre-Design																																			
PS20320	Pre-Design - PS#0680 Upgrade	179	03-Nov-14 A	30-Apr-15 A	Pre-Design - PS#0680 Upgrade																																			
Engineering Design					Engineering Design																																			
PS12502	Engineering Design - PS#0680 Upgrade	179	03-Nov-14 A	30-Apr-15 A	Engineering Design - PS#0680 Upgrade																																			
Permitting					Permitting																																			
PS12512	Permitting - PS#0680 Upgrade	95	01-May-15 A	04-Aug-15 A	Permitting - PS#0680 Upgrade																																			
Procurement					Procurement																																			
PS33570	Design Documents Sent to Procurement - PS#0680 Upgrade	96	01-May-15 A	04-Aug-15 A	Design Documents Sent to Procurement - PS#0680 Upgrade																																			
PS33580	Submit/Approve SBD Goals and Request to Advertise - PS#0680 Upgrade	140	10-Aug-15 A	28-Dec-15 A	Submit/Approve SBD Goals and Request to Advertise - PS#0680 Upgrade																																			
PS33590	Advertise Bid Package - PS#0680 Upgrade	141	10-Aug-15 A	28-Dec-15 A	Advertise Bid Package - PS#0680 Upgrade																																			
PS33600	Bid Solicitation Period - PS#0680 Upgrade	85	24-Nov-15 A	17-Feb-16 A	Bid Solicitation Period - PS#0680 Upgrade																																			
PS33610	Bids Due - PS#0680 Upgrade	0	24-Nov-15 A	09-Dec-15 A	Bids Due - PS#0680 Upgrade																																			
PS33620	Bid Review Period - PS#0680 Upgrade	16	24-Nov-15 A	09-Dec-15 A	Bid Review Period - PS#0680 Upgrade																																			
PS33630	Award Recommendation - PS#0680 Upgrade	0	09-Dec-15 A	08-Jan-16 A	Award Recommendation - PS#0680 Upgrade																																			
PS12522	Procurement - PS#0680 Upgrade	31	09-Dec-15 A	08-Jan-16 A	Procurement - PS#0680 Upgrade																																			
PS33640	Final Approvals - PS#0680 Upgrade	0	09-Jan-16 A	20-Jan-16 A	Final Approvals - PS#0680 Upgrade																																			
PS50800	P.O. Issued - PS#0680 Upgrade	12	09-Jan-16 A	20-Jan-16 A	P.O. Issued - PS#0680 Upgrade																																			
Construction					Construction																																			
PS33650	Contractor Notice to Proceed (NTP) - PS#0680 Upgrade	0	18-Apr-16 A	30-Nov-19 A	Contractor Notice to Proceed (NTP) - PS#0680 Upgrade																																			
PS12532	Construction - PS#0680 Upgrade	228	18-Apr-16 A	01-Dec-16 A	Construction - PS#0680 Upgrade																																			
PS12542	Substantial Completion (CD Compliance Date 12/31/18) - PS#0680 Upgrade	0		01-Dec-16 A	Substantial Completion (CD Compliance Date 12/31/18) - PS#0680 Upgrade																																			
PS40910	Project Closeout - PS#0680 Upgrade	303	02-Dec-16 A	30-Nov-19 A	Project Closeout - PS#0680 Upgrade																																			
Project Administration					Project Administration																																			
PS35210	WASD Project Administration - PS#0680 Upgrade	884	01-May-15 A	30-Nov-19 A	WASD Project Administration - PS#0680 Upgrade																																			
5.17 Upgrade of PS#0037, 0351, 0370, 0403					5.17 Upgrade of PS#0037, 0351, 0370, 0403																																			
Engineering Design					Engineering Design																																			
PS71750	EPA Start Date for Engineering Design - Upgrade PS#0037, 0351, 0370, 0403	336	05-Oct-15 A	05-Sep-16 A	EPA Start Date for Engineering Design - Upgrade PS#0037, 0351, 0370, 0403																																			
PS10510	Engineering Design - Upgrade PS#0037, 0351, 0370, 0403	0	02-Jan-16 A	05-Sep-16 A	Engineering Design - Upgrade PS#0037, 0351, 0370, 0403																																			
PS51440	EPA Compliance Date for Engineering Design - Upgrade PS#0037, 0351, 0370, 0403	337	05-Oct-15 A	05-Sep-16 A	EPA Compliance Date for Engineering Design - Upgrade PS#0037, 0351, 0370, 0403																																			
Permitting					Permitting																																			
PS71760	EPA Start Date for Permitting - Upgrade PS#0037, 0351, 0370, 0403	0	05-Jun-16 A	15-Apr-17 A	EPA Start Date for Permitting - Upgrade PS#0037, 0351, 0370, 0403																																			
PS10620	Permitting - Upgrade PS#0037, 0351, 0370, 0403	314	05-Jun-16 A	15-Apr-17 A	Permitting - Upgrade PS#0037, 0351, 0370, 0403																																			
PS51450	EPA Compliance Date for Permitting - Upgrade PS#0037, 0351, 0370, 0403	0	06-Sep-16 A	15-Apr-17 A	EPA Compliance Date for Permitting - Upgrade PS#0037, 0351, 0370, 0403																																			
Procurement					Procurement																																			
PS71770	EPA Start Date for Procurement - Upgrade PS#0037, 0351, 0370, 0403	173	23-Nov-16 A	15-May-17 A	EPA Start Date for Procurement - Upgrade PS#0037, 0351, 0370, 0403																																			
PS10690	Procurement - Upgrade PS#0037, 0351, 0370, 0403	0	29-Dec-16 A	15-May-17 A	Procurement - Upgrade PS#0037, 0351, 0370, 0403																																			
PS51460	EPA Compliance Date for Procurement - Upgrade PS#0037, 0351, 0370, 0403	164	23-Nov-16 A	05-May-17 A	EPA Compliance Date for Procurement - Upgrade PS#0037, 0351, 0370, 0403																																			
Construction					Construction																																			
PS71780	EPA Start Date for Construction - Upgrade PS#0037, 0351, 0370, 0403	628	12-Apr-17 A	30-Nov-18 A	EPA Start Date for Construction - Upgrade PS#0037, 0351, 0370, 0403																																			
PS10720	Construction - Upgrade PS#0037, 0351, 0370, 0403	0	16-May-17 A	30-Nov-18 A	Construction - Upgrade PS#0037, 0351, 0370, 0403																																			
PS10750	Substantial Completion (CD Compliance Date 11/20/18) - Upgrade PS#0037, 0351, 0370, 0403	203	12-Apr-17 A	30-Apr-18 A	Substantial Completion (CD Compliance Date 11/20/18) - Upgrade PS#0037, 0351, 0370, 0403																																			
PS51470	EPA Compliance Date for Construction - Upgrade PS#0037, 0351, 0370, 0403	0		30-Nov-18 A	EPA Compliance Date for Construction - Upgrade PS#0037, 0351, 0370, 0403																																			
5.17 (1) Pump Station 0037 Compliance Project					5.17 (1) Pump Station 0037 Compliance Project																																			
Pre-Design					Pre-Design																																			
PS20330	Negotiate Design Scope & Fee - PS#0037 Compliance Project	978	05-Oct-15 A	31-Jan-20	Negotiate Design Scope & Fee - PS#0037 Compliance Project																																			
Engineering Design					Engineering Design																																			
PS35020	Site Selection - PS#0037 Compliance Project	69	31-Jan-16 A	08-Apr-16 A	Site Selection - PS#0037 Compliance Project																																			
PS35010	Preliminary Engineering/Site Assessment Report - PS#0037 Compliance Project	69	31-Jan-16 A	08-Apr-16 A	Preliminary Engineering/Site Assessment Report - PS#0037 Compliance Project																																			
PS35030	Land Acquisition - PS#0037 Compliance Project	315	05-Oct-15 A	15-Aug-16 A	Land Acquisition - PS#0037 Compliance Project																																			
PS50480	30% Design Submittal - PS#0037 Compliance Project	2	23-Nov-15 A	24-Nov-15 A	30% Design Submittal - PS#0037 Compliance Project																																			
PS50490	30% Design Review - PS#0037 Compliance Project	79	05-Oct-15 A	22-Dec-15 A	30% Design Review - PS#0037 Compliance Project																																			
PS50500	90% Design Submittal - PS#0037 Compliance Project	98	24-Nov-15 A	29-Feb-16 A	90% Design Submittal - PS#0037 Compliance Project																																			
PS12552	Engineering Design - PS#0037 Compliance Project	53	12-Apr-16 A	03-Jun-16 A	Engineering Design - PS#0037 Compliance Project																																			
PS41180	90% Design Review - PS#0037 Compliance Project	7	04-Jun-16 A	10-Jun-16 A	90% Design Review - PS#0037 Compliance Project																																			
Permitting					Permitting																																			
PS41700	Site Plan Approval - PS#0037 Compliance Project	56	11-Jun-16 A	05-Aug-16 A	Site Plan Approval - PS#0037 Compliance Project																																			
PS41730	FDOT Utility Permit - PS#0037 Compliance Project	316	05-Oct-15 A	15-Aug-16 A	FDOT Utility Permit - PS#0037 Compliance Project																																			
PS41710	RER DERM Permit - PS#0037 Compliance Project	10	06-Aug-16 A	15-Aug-16 A	RER DERM Permit - PS#0037 Compliance Project																																			
PS41740	City Of Miami Public Works Permit - PS#0037 Compliance Project	255	05-Jun-16 A	15-Feb-17 A	City Of Miami Public Works Permit - PS#0037 Compliance Project																																			
PS12562	Permitting - PS#0037 Compliance Project	103	05-Jun-16 A	15-Sep-16 A	Permitting - PS#0037 Compliance Project																																			
PS41720	City Of Miami Building Dept Permit - PS#0037 Compliance Project	20	14-Oct-16 A	02-Nov-16 A	City Of Miami Building Dept Permit - PS#0037 Compliance Project																																			
Procurement					Procurement																																			
PS33660	Design Documents Sent to Procurement - PS#0037 Compliance Project	108	16-Aug-16 A	01-Dec-16 A	Design Documents Sent to Procurement - PS#0037 Compliance Project																																			
PS33670	Submit/Approve SBD Goals and Request to Advertise - PS#0037 Compliance Project	51	24-Oct-16 A	13-Dec-16 A	Submit/Approve SBD Goals and Request to Advertise - PS#0037 Compliance Project																																			
PS33680	Advertise Bid Package - PS#0037 Compliance Project	256	05-Jun-16 A	15-Feb-17 A	Advertise Bid Package - PS#0037 Compliance Project																																			
PS33690	Bid Solicitation Period - PS#0037 Compliance Project	115	24-Oct-16 A	15-Feb-17 A	Bid Solicitation Period - PS#0037 Compliance Project																																			
PS33700	Bids Due - PS#0037 Compliance Project	140	23-Nov-16 A	12-Apr-17 A	Bids Due - PS#0037 Compliance Project																																			
PS33710	Bid Review Period - PS#0037 Compliance Project	0	23-Nov-16 A	24-Jan-17 A	Bid Review Period - PS#0037 Compliance Project																																			
PS33720	Award Recommendation - PS#0037 Compliance Project	63	23-Nov-16 A	24-Jan-17 A	Award Recommendation - PS#0037 Compliance Project																																			
PS12572	Procurement - PS#0037 Compliance Project	40	25-Jan-17 A	05-Mar-17 A	Procurement - PS#0037 Compliance Project																																			

Activity ID	Activity Name	Original Duration	Start	Finish	2018				2019				2020				2021				2022				2023				2024				2025				2026			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PS33730	Final Approvals - PS#0037 Compliance Project	26	18-Mar-17 A	12-Apr-17 A	-PS#0037 Compliance Project																																			
PS72560	P.O. Issued - PS#0037 Compliance Project	0		12-Apr-17 A	#0037 Compliance Project																																			
Construction					31-Jan-20, Construction																																			
PS33740	Contractor Notice to Proceed (NTP) - PS#0037 Compliance Project	0	09-May-17 A	31-Jan-20	Contractor Notice to Proceed (NTP) - PS#0037 Compliance Project																																			
PS12582	Milestone I Construction of PS and FM - PS#0037 Compliance Project	210	09-May-17 A	14-Nov-17 A	Milestone I Construction of PS and FM - PS#0037 Compliance Project																																			
PS12592	Milestone I Substantial Completion of PS and FM (CD Compliance Date 11/20/18) - PS#0037 Compliance Project	0		14-Nov-17 A	Milestone I Substantial Completion of PS and FM (CD Compliance Date 11/20/18) - PS#0037 Compliance Project																																			
PS72010	Phase II Substantial Completion (Non-Consent Decree) - PS#0037 Compliance Project	0		27-Apr-18 A	Phase II Substantial Completion (Non-Consent Decree) - PS#0037 Compliance Project																																			
PS40920	Project Closeout - PS#0037 Compliance Project	40	28-Apr-18 A	31-Jan-20*	Project Closeout - PS#0037 Compliance Project																																			
Project Administration					31-Jan-20, Project Administration																																			
PS35200	WASD Project Administration - PS#0037 Compliance Project	832	05-Oct-15 A	31-Jan-20	WASD Project Administration - PS#0037 Compliance Project																																			
5.17 (2) Pump Station No. 0351 Upgrade					31-Jan-19 A, 5.17 (2) Pump Station No. 0351 Upgrade																																			
Pre-Design																																								
PS20340	Pre-Design - PS#0351 Upgrade	89	15-Jan-16 A	12-Apr-16 A	Pre-Design - PS#0351 Upgrade																																			
Engineering Design																																								
PS50510	30% Design Submittal - PS#0351 Upgrade	53	12-Apr-16 A	03-Jun-16 A	30% Design Submittal - PS#0351 Upgrade																																			
PS50520	30% Design Review - PS#0351 Upgrade	7	04-Jun-16 A	10-Jun-16 A	30% Design Review - PS#0351 Upgrade																																			
PS50530	90% Design Submittal - PS#0351 Upgrade	56	11-Jun-16 A	05-Aug-16 A	90% Design Submittal - PS#0351 Upgrade																																			
PS12602	Engineering Design - PS#0351 Upgrade	126	12-Apr-16 A	15-Aug-16 A	Engineering Design - PS#0351 Upgrade																																			
PS50540	90% Design Review - PS#0351 Upgrade	10	06-Aug-16 A	15-Aug-16 A	90% Design Review - PS#0351 Upgrade																																			
Permitting																																								
PS41750	RER DERM Permit - PS#0351 Upgrade	113	16-Aug-16 A	06-Dec-16 A	RER DERM Permit - PS#0351 Upgrade																																			
PS12612	Permitting - PS#0351 Upgrade	197	15-Aug-16 A	27-Feb-17 A	Permitting - PS#0351 Upgrade																																			
PS41760	Municipal PW Permit - PS#0351 Upgrade	127	24-Oct-16 A	27-Feb-17 A	Municipal PW Permit - PS#0351 Upgrade																																			
PS41780	City of Miami Gardens Building Dept Permit - PS#0351 Upgrade	127	24-Oct-16 A	27-Feb-17 A	City of Miami Gardens Building Dept Permit - PS#0351 Upgrade																																			
PS50760	MDDTPW Permit - PS#0351 Upgrade	127	24-Oct-16 A	27-Feb-17 A	MDDTPW Permit - PS#0351 Upgrade																																			
Procurement																																								
PS33750	Design Documents Sent to Procurement - PS#0351 Upgrade	0	23-Nov-16 A		Design Documents Sent to Procurement - PS#0351 Upgrade																																			
PS33760	Submit/Approve SBD Goals and Request to Advertise - PS#0351 Upgrade	70	23-Nov-16 A	31-Jan-17 A	Submit/Approve SBD Goals and Request to Advertise - PS#0351 Upgrade																																			
PS33770	Advertise Bid Package - PS#0351 Upgrade	0	01-Feb-17 A		Advertise Bid Package - PS#0351 Upgrade																																			
PS33780	Bid Solicitation Period - PS#0351 Upgrade	36	01-Feb-17 A	08-Mar-17 A	Bid Solicitation Period - PS#0351 Upgrade																																			
PS33790	Bids Due - PS#0351 Upgrade	0	09-Mar-17 A		Bids Due - PS#0351 Upgrade																																			
PS33800	Bid Review Period - PS#0351 Upgrade	13	09-Mar-17 A	21-Mar-17 A	Bid Review Period - PS#0351 Upgrade																																			
PS33810	Award Recommendation - PS#0351 Upgrade	0		21-Mar-17 A	Award Recommendation - PS#0351 Upgrade																																			
PS12622	Procurement - PS#0351 Upgrade	164	23-Nov-16 A	05-May-17 A	Procurement - PS#0351 Upgrade																																			
PS33820	Final Approvals - PS#0351 Upgrade	45	22-Mar-17 A	05-May-17 A	Final Approvals - PS#0351 Upgrade																																			
PS72570	P.O. Issued - PS#0351 Upgrade	0		05-May-17 A	P.O. Issued - PS#0351 Upgrade																																			
Construction					31-Jan-19 A, Construction																																			
PS33830	Contractor Notice to Proceed (NTP) - PS#0351 Upgrade	0	05-May-17 A	31-Jan-19 A	Contractor Notice to Proceed (NTP) - PS#0351 Upgrade																																			
PS12632	Construction - PS#0351 Upgrade	180	05-May-17 A	01-Dec-17 A	Construction - PS#0351 Upgrade																																			
PS12642	Substantial Completion (CD Compliance Date 11/20/18) - PS#0351 Upgrade	0		01-Dec-17 A	Substantial Completion (CD Compliance Date 11/20/18) - PS#0351 Upgrade																																			
PS40930	Project Closeout - PS#0351 Upgrade	50	01-Dec-17 A	31-Jan-19 A	Project Closeout - PS#0351 Upgrade																																			
Project Administration					31-Jan-19 A, Project Administration																																			
PS35190	WASD Project Administration - PS#0351 Upgrade	668	12-Apr-16 A	31-Jan-19 A	WASD Project Administration - PS#0351 Upgrade																																			
5.17 (2.1) Pump Station 0351 FM Replacement					15-Sep-21, 5.17 (2.1) Pump Station 0351 FM Replacement																																			
Pre-Design					01-Jul-19 A, Pre-Design																																			
PS723500	Pre-Design - PS#0351 FM Replacement	90	16-Jul-18 A	01-Jul-19 A	Pre-Design - PS#0351 FM Replacement																																			
Engineering Design					22-Jun-20, Engineering Design																																			
PS723510	30% Design Submittal / Review - PS#0351 FM Replacement	30	02-Jul-19 A	02-Mar-20	30% Design Submittal / Review - PS#0351 FM Replacement																																			
PS723530	90% Design Submittal / Review - PS#0351 FM Replacement	96	03-Mar-20	06-Jun-20	90% Design Submittal / Review - PS#0351 FM Replacement																																			
PS723540	Engineering Design - PS#0351 FM Replacement	74	02-Jul-19 A	22-Jun-20	Engineering Design - PS#0351 FM Replacement																																			
PS723550	100% Design Submittal / Review - PS#0351 FM Replacement	16	07-Jun-20	22-Jun-20	100% Design Submittal / Review - PS#0351 FM Replacement																																			
Permitting					05-Jun-20, Permitting																																			
PS723570	Permitting - PS#0351 FM Replacement	95	03-Mar-20	05-Jun-20	Permitting - PS#0351 FM Replacement																																			
Procurement					19-Dec-20, Procurement																																			
PS723610	Design Documents Sent to Procurement - PS#0351 FM Replacement	0	23-Jun-20		Design Documents Sent to Procurement - PS#0351 FM Replacement																																			
PS723620	Submit/Approve SBD Goals and Request to Advertise - PS#0351 FM Replacement	60	23-Jun-20	21-Aug-20	Submit/Approve SBD Goals and Request to Advertise - PS#0351 FM Replacement																																			
PS723630	Advertise Bid Package - PS#0351 FM Replacement	0	22-Aug-20		Advertise Bid Package - PS#0351 FM Replacement																																			
PS723640	Bid Solicitation Period - PS#0351 FM Replacement	45	22-Aug-20	05-Oct-20	Bid Solicitation Period - PS#0351 FM Replacement																																			
PS723650	Bids Due - PS#0351 FM Replacement	0	06-Oct-20		Bids Due - PS#0351 FM Replacement																																			
PS723660	Bid Review Period - PS#0351 FM Replacement	30	06-Oct-20	04-Nov-20	Bid Review Period - PS#0351 FM Replacement																																			
PS723670	Award Recommendation - PS#0351 FM Replacement	0		04-Nov-20	Award Recommendation - PS#0351 FM Replacement																																			
PS723680	Procurement - PS#0351 FM Replacement	180	23-Jun-20	19-Dec-20	Procurement - PS#0351 FM Replacement																																			
PS723690	Final Approvals - PS#0351 FM Replacement	45	05-Nov-20	19-Dec-20	Final Approvals - PS#0351 FM Replacement																																			
PS723700	P.O. Issued - PS#0351 FM Replacement	0		19-Dec-20	P.O. Issued - PS#0351 FM Replacement																																			
Construction					15-Sep-21, Construction																																			
PS723710	Contractor Notice to Proceed (NTP) - PS#0351 FM Replacement	0	20-Dec-20		Contractor Notice to Proceed (NTP) - PS#0351 FM Replacement																																			
PS723720	Construction - PS#0351 FM Replacement	180	20-Dec-20	17-Jun-21	Construction - PS#0351 FM Replacement																																			
PS723750	Commissioning - PS#0351 FM Replacement	30	19-May-21	17-Jun-21	Commissioning - PS#0351 FM Replacement																																			
PS723730	Substantial Completion (Non-Consent Decree) - PS#0351 FM Replacement	0		17-Jun-21	Substantial Completion (Non-Consent Decree) - PS#0351 FM Replacement																																			
PS723740	Project Closeout - PS#0351 FM Replacement	90	18-Jun-21	15-Sep-21	Project Closeout - PS#0351 FM Replacement																																			
5.17 (3) Pump Station No. 0370 Upgrade and Installation of FM					31-Jan-19 A, 5.17 (3) Pump Station No. 0370 Upgrade and Installation of FM																																			
Pre-Design					11-Apr-16 A																																			
PS20360	Pre-Design - PS#0370 Upgrade and FM Installation	118	16-Dec-15 A	11-Apr-16 A	Pre-Design - PS#0370 Upgrade and FM Installation																																			
Engineering Design					23-Aug-16 A																																			
PS50550	30% Design Submittal - PS#0370 Upgrade and FM Installation	49	12-Apr-16 A	30-May-16 A	30% Design Submittal - PS#0370 Upgrade and FM Installation																																			

Activity ID	Activity Name	Original Duration	Start	Finish	2018				2019				2020				2021				2022				2023				2024				2025				2026			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PS71820	EPA Start Date for Construction - Upgrade PS#0441, 0491, 0710, 0827, 0852, 1236	0	06-Apr-18 A		◆ EPA Start Date for Construction - Upgrade PS#0441, 0491, 0710, 0827, 0852, 1236																																			
PS10760	Construction - Upgrade PS#0441, 0491, 0710, 0827, 0852, 1236	443	12-Dec-17 A	18-Nov-19 A	Construction - Upgrade PS#0441, 0491, 0710, 0827, 0852, 1236																																			
PS10840	Substantial Completion (CD Compliance Date 12/13/19) - Upgrade PS#0441, 0491, 0710, 0827, 0852, 1236	0		18-Nov-19 A	◆ Substantial Completion (CD Compliance Date 12/13/19) - Upgrade PS#0441, 0491, 0710, 0827, 0852, 1236																																			
PS51510	EPA Compliance Date for Construction - Upgrade PS#0441, 0491, 0710, 0827, 0852, 1236	0		13-Dec-19 A	◆ EPA Compliance Date for Construction - Upgrade PS#0441, 0491, 0710, 0827, 0852, 1236																																			
5.18 (1) Pump Station 0441 Upgrade					1097	08-Nov-16 A	31-Jan-20	◆ 31-Jan-20, 5.18 (1) Pump Station 0441 Upgrade																																
Pre-Design					140	08-Nov-16 A	27-Mar-17 A	Pre-Design - PS#0441 Upgrade																																
PS20390	Pre-Design - PS#0441 Upgrade	140	08-Nov-16 A	27-Mar-17 A	Pre-Design - PS#0441 Upgrade																																			
Engineering Design					111	28-Mar-17 A	17-Jul-17 A	Engineering Design - PS#0441 Upgrade																																
PS72230	30% Design Submittal - PS#0441 Upgrade	23	28-Mar-17 A	19-Apr-17 A	30% Design Submittal - PS#0441 Upgrade																																			
PS72240	30% Design Review - PS#0441 Upgrade	14	20-Apr-17 A	03-May-17 A	30% Design Review - PS#0441 Upgrade																																			
PS72250	90% Design Submittal - PS#0441 Upgrade	58	04-May-17 A	30-Jun-17 A	90% Design Submittal - PS#0441 Upgrade																																			
PS12852	Engineering Design - PS#0441 Upgrade	112	28-Mar-17 A	17-Jul-17 A	Engineering Design - PS#0441 Upgrade																																			
PS72260	90% Design Review/Permit Ready Submittal - PS#0441 Upgrade	17	01-Jul-17 A	17-Jul-17 A	90% Design Review/Permit Ready Submittal - PS#0441 Upgrade																																			
Permitting					311	18-Jul-17 A	15-Mar-18 A	Permitting - PS#0441 Upgrade																																
PS72270	RER/DERM Permit - PS#0441 Upgrade	106	18-Jul-17 A	15-Nov-17 A	RER/DERM Permit - PS#0441 Upgrade																																			
PS72810	MDC Public Works Permit - PS#0441 Upgrade	49	02-Feb-18 A	08-Feb-18 A	MDC Public Works Permit - PS#0441 Upgrade																																			
PS72280	County Bldg Dept Permit - PS#0441 Upgrade	49	14-Dec-17 A	05-Mar-18 A	County Bldg Dept Permit - PS#0441 Upgrade																																			
PS12862	Permitting - PS#0441 Upgrade	155	18-Jul-17 A	15-Mar-18 A	Permitting - PS#0441 Upgrade																																			
PS72300	Miami Gardens Public Works Permit - PS#0441 Upgrade	49	19-Oct-17 A	15-Mar-18 A	Miami Gardens Public Works Permit - PS#0441 Upgrade																																			
PS72290	Miami Gardens Bldg Dept Permit - PS#0441 Upgrade	49	06-Mar-18 A	15-Mar-18 A	Miami Gardens Bldg Dept Permit - PS#0441 Upgrade																																			
Procurement					189	29-Jan-18 A	24-Aug-18 A	Procurement - PS#0441 Upgrade																																
PS71860	Internal Bid Package Review - PS#0441 Upgrade	8	29-Jan-18 A	05-Feb-18 A	Internal Bid Package Review - PS#0441 Upgrade																																			
PS34200	Design Documents Sent to Procurement - PS#0441 Upgrade	0	06-Feb-18 A		Design Documents Sent to Procurement - PS#0441 Upgrade																																			
PS34210	Submit/Approve SBD Goals and Request to Advertise - PS#0441 Upgrade	30	06-Feb-18 A	21-Feb-18 A	Submit/Approve SBD Goals and Request to Advertise - PS#0441 Upgrade																																			
PS34220	Advertise Bid Package - PS#0441 Upgrade	0	22-Feb-18 A		Advertise Bid Package - PS#0441 Upgrade																																			
PS34230	Bid Solicitation Period - PS#0441 Upgrade	45	22-Feb-18 A	17-May-18 A	Bid Solicitation Period - PS#0441 Upgrade																																			
PS34240	Bids Due - PS#0441 Upgrade	0	18-May-18 A		Bids Due - PS#0441 Upgrade																																			
PS34250	Bid Review Period - PS#0441 Upgrade	15	18-May-18 A	12-Jul-18 A	Bid Review Period - PS#0441 Upgrade																																			
PS34260	Award Recommendation - PS#0441 Upgrade	0		12-Jul-18 A	Award Recommendation - PS#0441 Upgrade																																			
PS34270	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0441 Upgrade	30	13-Jul-18 A	23-Aug-18 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0441 Upgrade																																			
PS12872	Procurement - PS#0441 Upgrade	120	06-Feb-18 A	24-Aug-18 A	Procurement - PS#0441 Upgrade																																			
Construction					424	24-Aug-18 A	31-Jan-20	Construction - PS#0441 Upgrade																																
PS34280	Contractor Notice to Proceed (NTP) - PS#0441 Upgrade	0	24-Aug-18 A		Contractor Notice to Proceed (NTP) - PS#0441 Upgrade																																			
PS12882	Construction - PS#0441 Upgrade	300	24-Aug-18 A	14-Aug-19 A	Construction - PS#0441 Upgrade																																			
PS723080	Commissioning - PS#0441 Upgrade	50	02-Jul-19 A	14-Aug-19 A	Commissioning - PS#0441 Upgrade																																			
PS12892	Substantial Completion (CD Compliance Date 12/13/19) - PS#0441 Upgrade	0		14-Aug-19 A	◆ Substantial Completion (CD Compliance Date 12/13/19) - PS#0441 Upgrade																																			
PS40980	Project Closeout - PS#0441 Upgrade	50	15-Aug-19 A	31-Jan-20*	Project Closeout - PS#0441 Upgrade																																			
Project Administration					664	28-Mar-17 A	31-Jan-20	Project Administration - PS#0441 Upgrade																																
PS35140	WASD Project Administration - PS#0441 Upgrade	664	28-Mar-17 A	31-Jan-20	WASD Project Administration - PS#0441 Upgrade																																			
5.18 (2) Pump Station 0491 Compliance Project					772	07-Jul-17 A	13-Feb-20	◆ 13-Feb-20, 5.18 (2) Pump Station 0491 Compliance Project																																
Construction					772	07-Jul-17 A	13-Feb-20	Construction - PS#0491 Compliance Project																																
PS34370	Phase II (Non-Consent Decree) Transferred to WASD - PS#0491 Compliance Project	0		07-Jul-17 A	Phase II (Non-Consent Decree) Transferred to WASD - PS#0491 Compliance Project																																			
PS12932	Phase I Construction (I/I) - PS#0491 Compliance Project	365	12-Dec-17 A	15-Nov-19 A	Phase I Construction (I/I) - PS#0491 Compliance Project																																			
PS12942	Phase I Substantial Completion (CD Compliance Date 12/13/19) - PS#0491 Compliance Project	0		15-Nov-19 A	◆ Phase I Substantial Completion (CD Compliance Date 12/13/19) - PS#0491 Compliance Project																																			
PS40990	Project Closeout - PS#0491 Compliance Project	90	16-Nov-19 A	13-Feb-20*	Project Closeout - PS#0491 Compliance Project																																			
Project Administration					425	12-Dec-17 A	13-Feb-20	Project Administration - PS#0491 Compliance Project																																
PS35130	WASD Project Administration - PS#0491 Compliance Project	425	12-Dec-17 A	13-Feb-20	WASD Project Administration - PS#0491 Compliance Project																																			
5.18 (3) Pump Station 0710 Compliance Project					1104	22-Nov-16 A	30-Mar-20	◆ 30-Mar-20, 5.18 (3) Pump Station 0710 Compliance Project																																
Pre-Design					91	22-Nov-16 A	20-Feb-17 A	Pre-Design - PS#0710 Compliance Project																																
PS20410	Pre-Design - PS#0710 Compliance Project	91	22-Nov-16 A	20-Feb-17 A	Pre-Design - PS#0710 Compliance Project																																			
Engineering Design					155	21-Mar-17 A	23-Aug-17 A	Engineering Design - PS#0710 Compliance Project																																
PS72310	30% Design Submittal - PS#0710 Compliance Project	77	21-Mar-17 A	05-Jun-17 A	30% Design Submittal - PS#0710 Compliance Project																																			
PS72320	30% Design Review - PS#0710 Compliance Project	10	06-Jun-17 A	15-Jun-17 A	30% Design Review - PS#0710 Compliance Project																																			
PS72330	100% Design Submittal - PS#0710 Compliance Project	33	16-Jun-17 A	18-Jul-17 A	100% Design Submittal - PS#0710 Compliance Project																																			
PS12952	Engineering Design - PS#0710 Compliance Project	156	21-Mar-17 A	23-Aug-17 A	Engineering Design - PS#0710 Compliance Project																																			
PS72340	100% Design Review/Permit Ready Submittal - PS#0710 Compliance Project	36	19-Jul-17 A	23-Aug-17 A	100% Design Review/Permit Ready Submittal - PS#0710 Compliance Project																																			
Permitting					194	24-Aug-17 A	15-Mar-18 A	Permitting - PS#0710 Compliance Project																																
PS72350	RER/DERM Permit - PS#0710 Compliance Project	69	24-Aug-17 A	19-Dec-17 A	RER/DERM Permit - PS#0710 Compliance Project																																			
PS72370	Public Works Permit - PS#0710 Compliance Project	49	18-Dec-17 A	19-Dec-17 A	Public Works Permit - PS#0710 Compliance Project																																			
PS12962	Permitting - PS#0710 Compliance Project	109	24-Aug-17 A	15-Mar-18 A	Permitting - PS#0710 Compliance Project																																			
PS72360	County Bldg Dept Permit - PS#0710 Compliance Project	49	29-Dec-17 A	15-Mar-18 A	County Bldg Dept Permit - PS#0710 Compliance Project																																			
Procurement					138	29-Jan-18 A	23-Jul-18 A	Procurement - PS#0710 Compliance Project																																
PS71880	Internal Bid Package Review - PS#0710 Compliance Project	8	29-Jan-18 A	05-Feb-18 A	Internal Bid Package Review - PS#0710 Compliance Project																																			
PS34380	Design Documents Sent to Procurement - PS#0710 Compliance Project	0	06-Feb-18 A		Design Documents Sent to Procurement - PS#0710 Compliance Project																																			
PS34390	Submit/Approve SBD Goals and Request to Advertise - PS#0710 Compliance Project	30	06-Feb-18 A	27-Feb-18 A	Submit/Approve SBD Goals and Request to Advertise - PS#0710 Compliance Project																																			
PS34400	Advertise Bid Package - PS#0710 Compliance Project	0	28-Feb-18 A		Advertise Bid Package - PS#0710 Compliance Project																																			
PS34410	Bid Solicitation Period - PS#0710 Compliance Project	36	28-Feb-18 A	18-Apr-18 A	Bid Solicitation Period - PS#0710 Compliance Project																																			
PS34420	Bids Due - PS#0710 Compliance Project	0	19-Apr-18 A		Bids Due - PS#0710 Compliance Project																																			
PS34430	Bid Review Period - PS#0710 Compliance Project	15	19-Apr-18 A	17-May-18 A	Bid Review Period - PS#0710 Compliance Project																																			
PS34440	Award Recommendation - PS#0710 Compliance Project	0		17-May-18 A	Award Recommendation - PS#0710 Compliance Project																																			
PS12972	Procurement - PS#0710 Compliance Project	120	06-Feb-18 A	23-Jul-18 A	Procurement - PS#0710 Compliance Project																																			
PS34450	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0710 Compliance Project	30	18-May-18 A	23-Jul-18 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0710 Compliance Project																																			
Construction					457	20-Aug-18 A	30-Mar-20	Construction - PS#0710 Compliance Project																																
PS34460	Contractor Notice to Proceed (NTP) - PS#0710 Compliance Project	0	20-Aug-18 A		Contractor Notice to Proceed (NTP) - PS#0710 Compliance Project																																			
PS12982	Construction - PS#0710 Compliance Project	300	20-Aug-18 A	14-Aug-19 A	Construction - PS#0710 Compliance Project																																			

Activity ID	Activity Name	Original Duration	Start	Finish	Timeline (2018-2026)																											
					2018	2019	2020	2021	2022	2023	2024	2025	2026																			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
PS723090	Commissioning - PS#0710 Compliance Project	60	24-Jun-19 A	14-Aug-19 A	■ Commissioning - PS#0710 Compliance Project																											
PS12992	Substantial Completion (CD Compliance Date 12/13/19) - PS#0710 Compliance Project	0		14-Aug-19 A	◆ Substantial Completion (CD Compliance Date 12/13/19) - PS#0710 Compliance Project																											
PS41000	Project Closeout - PS#0710 Compliance Project	61	15-Aug-19 A	30-Mar-20*	■ Project Closeout - PS#0710 Compliance Project																											
Project Administration																																
PS35120	WASD Project Administration - PS#0710 Compliance Project	718	21-Mar-17 A	30-Mar-20	■ WASD Project Administration - PS#0710 Compliance Project																											
5.18 (4) Pump Station 0827 Compliance Project																																
Pre-Design																																
PS20430	Pre-Design - PS#0827 Compliance Project	94	06-Dec-16 A	09-Mar-17 A	■ Pre-Design - PS#0827 Compliance Project																											
Engineering Design																																
PS72380	30% Design Submittal - PS#0827 Compliance Project	42	09-Mar-17 A	19-Apr-17 A	■ 30% Design Submittal - PS#0827 Compliance Project																											
PS72390	30% Design Review - PS#0827 Compliance Project	14	20-Apr-17 A	03-May-17 A	■ 30% Design Review - PS#0827 Compliance Project																											
PS72400	100% Design Submittal - PS#0827 Compliance Project	54	04-May-17 A	26-Jun-17 A	■ 100% Design Submittal - PS#0827 Compliance Project																											
PS13052	Engineering Design - PS#0827 Compliance Project	123	09-Mar-17 A	09-Jul-17 A	■ Engineering Design - PS#0827 Compliance Project																											
PS72410	100% Design Review/Permit Ready Submittal - PS#0827 Compliance Project	13	27-Jun-17 A	09-Jul-17 A	■ 100% Design Review/Permit Ready Submittal - PS#0827 Compliance Project																											
Permitting																																
PS72440	Public Works Permit - PS#0827 Compliance Project	49	18-Dec-17 A	19-Dec-17 A	■ Public Works Permit - PS#0827 Compliance Project																											
PS72420	RER/DERM Permit - PS#0827 Compliance Project	114	10-Jul-17 A	05-Jan-18 A	■ RER/DERM Permit - PS#0827 Compliance Project																											
PS13062	Permitting - PS#0827 Compliance Project	154	10-Jul-17 A	13-Jun-18 A	■ Permitting - PS#0827 Compliance Project																											
PS72430	County Bldg Dept Permit - PS#0827 Compliance Project	49	19-Jan-18 A	13-Jun-18 A	■ County Bldg Dept Permit - PS#0827 Compliance Project																											
Procurement																																
PS71890	Internal Bid Package Review - PS#0827 Compliance Project	5	28-Feb-18 A	04-Mar-18 A	■ Internal Bid Package Review - PS#0827 Compliance Project																											
PS34560	Design Documents Sent to Procurement - PS#0827 Compliance Project	0	05-Mar-18 A		◆ Design Documents Sent to Procurement - PS#0827 Compliance Project																											
PS34570	Submit/Approve SBD Goals and Request to Advertise - PS#0827 Compliance Project	30	05-Mar-18 A	18-Mar-18 A	■ Submit/Approve SBD Goals and Request to Advertise - PS#0827 Compliance Project																											
PS34580	Advertise Bid Package - PS#0827 Compliance Project	0	19-Mar-18 A		◆ Advertise Bid Package - PS#0827 Compliance Project																											
PS34590	Bid Solicitation Period - PS#0827 Compliance Project	45	19-Mar-18 A	19-Apr-18 A	■ Bid Solicitation Period - PS#0827 Compliance Project																											
PS34600	Bids Due - PS#0827 Compliance Project	0	20-Apr-18 A		◆ Bids Due - PS#0827 Compliance Project																											
PS34610	Bid Review Period - PS#0827 Compliance Project	15	20-Apr-18 A	22-May-18 A	■ Bid Review Period - PS#0827 Compliance Project																											
PS34620	Award Recommendation - PS#0827 Compliance Project	0		22-May-18 A	◆ Award Recommendation - PS#0827 Compliance Project																											
PS13072	Procurement - PS#0827 Compliance Project	120	05-Mar-18 A	29-Jun-18 A	■ Procurement - PS#0827 Compliance Project																											
PS34630	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0827 Compliance Project	30	23-May-18 A	29-Jun-18 A	■ Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0827 Compliance Project																											
Construction																																
PS34640	Contractor Notice to Proceed (NTP) - PS#0827 Compliance Project	0	06-Aug-18 A		◆ Contractor Notice to Proceed (NTP) - PS#0827 Compliance Project																											
PS13082	Construction - PS#0827 Compliance Project	300	06-Aug-18 A	18-Nov-19 A	■ Construction - PS#0827 Compliance Project																											
PS723100	Commissioning - PS#0827 Compliance Project	33	14-Oct-19 A	18-Nov-19 A	■ Commissioning - PS#0827 Compliance Project																											
PS13092	Substantial Completion (CD Compliance Date 12/13/19) - PS#0827 Compliance Project	0		18-Nov-19 A	◆ Substantial Completion (CD Compliance Date 12/13/19) - PS#0827 Compliance Project																											
PS41020	Project Closeout - PS#0827 Compliance Project	50	19-Nov-19 A	27-Mar-20*	■ Project Closeout - PS#0827 Compliance Project																											
Project Administration																																
PS35110	WASD Project Administration - PS#0827 Compliance Project	730	09-Mar-17 A	27-Mar-20	■ WASD Project Administration - PS#0827 Compliance Project																											
5.18 (5) Pump Station 0852 Compliance Project																																
Pre-Design																																
PS20450	Pre-Design - PS#0852 Compliance Project	112	06-Dec-16 A	27-Mar-17 A	■ Pre-Design - PS#0852 Compliance Project																											
Engineering Design																																
PS72450	30% Design Submittal - PS#0852 Compliance Project	49	28-Mar-17 A	15-May-17 A	■ 30% Design Submittal - PS#0852 Compliance Project																											
PS72460	30% Design Review - PS#0852 Compliance Project	10	16-May-17 A	25-May-17 A	■ 30% Design Review - PS#0852 Compliance Project																											
PS72470	100% Design Submittal - PS#0852 Compliance Project	67	26-May-17 A	31-Jul-17 A	■ 100% Design Submittal - PS#0852 Compliance Project																											
PS13152	Engineering Design - PS#0852 Compliance Project	135	28-Mar-17 A	09-Aug-17 A	■ Engineering Design - PS#0852 Compliance Project																											
PS72480	100% Design Review/Permit Ready Submittal - PS#0852 Compliance Project	9	01-Aug-17 A	09-Aug-17 A	■ 100% Design Review/Permit Ready Submittal - PS#0852 Compliance Project																											
Permitting																																
PS72510	Public Work Permit - PS#0852 Compliance Project	49	18-Dec-17 A	21-Dec-17 A	■ Public Work Permit - PS#0852 Compliance Project																											
PS72490	RER/DERM Permit - PS#0852 Compliance Project	82	10-Aug-17 A	29-Jan-18 A	■ RER/DERM Permit - PS#0852 Compliance Project																											
PS13162	Permitting - PS#0852 Compliance Project	142	10-Aug-17 A	30-Mar-18 A	■ Permitting - PS#0852 Compliance Project																											
PS72500	County Bldg Dept Permit - PS#0852 Compliance Project	49	19-Feb-18 A	30-Mar-18 A	■ County Bldg Dept Permit - PS#0852 Compliance Project																											
Procurement																																
PS71900	Internal Bid Package Review - PS#0852 Compliance Project	3	02-Mar-18 A	04-Mar-18 A	■ Internal Bid Package Review - PS#0852 Compliance Project																											
PS34740	Design Documents Sent to Procurement - PS#0852 Compliance Project	0	05-Mar-18 A		◆ Design Documents Sent to Procurement - PS#0852 Compliance Project																											
PS34750	Submit/Approve SBD Goals and Request to Advertise - PS#0852 Compliance Project	30	06-Mar-18 A	25-Mar-18 A	■ Submit/Approve SBD Goals and Request to Advertise - PS#0852 Compliance Project																											
PS34760	Advertise Bid Package - PS#0852 Compliance Project	0	26-Mar-18 A		◆ Advertise Bid Package - PS#0852 Compliance Project																											
PS34770	Bid Solicitation Period - PS#0852 Compliance Project	45	26-Mar-18 A	25-Apr-18 A	■ Bid Solicitation Period - PS#0852 Compliance Project																											
PS34780	Bids Due - PS#0852 Compliance Project	0	26-Apr-18 A		◆ Bids Due - PS#0852 Compliance Project																											
PS34790	Bid Review Period - PS#0852 Compliance Project	15	26-Apr-18 A	31-May-18 A	■ Bid Review Period - PS#0852 Compliance Project																											
PS34800	Award Recommendation - PS#0852 Compliance Project	0		31-May-18 A	◆ Award Recommendation - PS#0852 Compliance Project																											
PS13172	Procurement - PS#0852 Compliance Project	120	05-Mar-18 A	02-Aug-18 A	■ Procurement - PS#0852 Compliance Project																											
PS34810	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0852 Compliance Project	30	01-Jun-18 A	02-Aug-18 A	■ Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0852 Compliance Project																											
Construction																																
PS34820	Contractor Notice to Proceed (NTP) - PS#0852 Compliance Project	0	04-Sep-18 A		◆ Contractor Notice to Proceed (NTP) - PS#0852 Compliance Project																											
PS13182	Construction - PS#0852 Compliance Project	250	04-Sep-18 A	26-Jul-19 A	■ Construction - PS#0852 Compliance Project																											
PS723110	Commissioning - PS#0852 Compliance Project	60	30-Apr-19 A	26-Jul-19 A	■ Commissioning - PS#0852 Compliance Project																											
PS13192	Substantial Completion (CD Compliance Date 12/13/19) - PS#0852 Compliance Project	0		26-Jul-19 A	◆ Substantial Completion (CD Compliance Date 12/13/19) - PS#0852 Compliance Project																											
PS41040	Project Closeout - PS#0852 Compliance Project	50	26-Jul-19 A	30-Mar-20*	■ Project Closeout - PS#0852 Compliance Project																											
Project Administration																																
PS35100	WASD Project Administration - PS#0852 Compliance Project	712	28-Mar-17 A	30-Mar-20	■ WASD Project Administration - PS#0852 Compliance Project																											
5.18 (6) Pump Station 1236 Compliance Project																																
Construction																																
PS13242	Phase I Substantial Completion Inspection (CD Compliance Date 12/13/19) - PS#1236 Compliance Project	0	01-May-17 A	01-May-17 A	■ Phase I Substantial Completion Inspection (CD Compliance Date 12/13/19) - PS#1236 Compliance Project																											
5.19 SCADA RTU Upgrades																																
		899	01-Oct-13 A	18-Mar-16 A																												

Appendix C
CMOM Program:
Financial Analysis Program Report

MIAMI-DADE WATER AND SEWER DEPARTMENT
Consolidated Financial Projection - Wastewater Systems (\$000)
Fiscal Year Actuals Year to Date (October - September 2019)
(On an accrual basis)

<i>In Thousands</i>	Audited	UnAudited
	Oct-Sep	Oct-Sep
Wastewater System	FY 17-18 Actual	FY 18-19 Actual
Revenues:		
Wastewater System Operating Revenues	\$388,105	\$406,399
Interest Income	\$5,603	\$9,460
Other Adjustments (net change accruals&payables)	\$0	\$0
Transferred From WASD Water Operations (*Occurs at Year-end FY2019 flow of funds)	\$71,867	\$0
Total Revenues:	\$465,575	\$415,859
Expenditures:		
Wastewater System Operating & Maintenance Expenditures	(\$248,936)	(\$243,324)
Debt Service - Existing (net of Swap receipts)	(\$143,498)	(\$151,738)
Operating Revenues Transferred To Wastewater Renewal & Replacement Capital Fund	(\$50,000)	(\$49,000)
Operating Revenues Transferred To Bond Required Reserve	(\$3,758)	(\$1,390)
Transferred To WASD Water Operations	\$0	\$0
Total Expenditures Operating and Non-Operating	(\$446,192)	(\$445,452)
Net Overage/(Deficit) in Wastewater System Revenues (*Pending FY19 transfer from water)	\$19,383	(\$29,593)
% Increase for Net Deficit	0.00%	0.00%

* YTD ACTUAL Note: Transfers to the R&R capital fund and to/from water and sewer occur at year-end flow of funds entry that record through the audit process.

Water and Wastewater Reserve Balances Projected Fiscal Year-End In Thousands

Reserve Required By Bond Ordinance Water and Wastewater	\$74,199	\$78,099
Water and Wastewater Rate Stabilization Fund Balance	\$30,534	\$30,534
Water and Sewer General Reserve Fund Beginning Balance	\$57,563	\$65,676
Water and Wastewater Systems Transfer to/(from) General Reserve	\$8,113	\$10,984
Water and Sewer General Reserve Fund Ending Balance	\$65,676	\$76,660

Miami-Dade Water and Sewer Department
Statement of Revenues, Expenses and Changes in Net Position
WASTEWATER - Wastewater Funds
For 12 Months Ending September 30, 2019

Report Id: WGLZ11B
Run on: 01/09/20 11:43 AM
Source: GL

	Unaudited FY 2019			FY 2018	
	Actual	Budget	Variance Fav/(Unfav)	Actual	Variance Fav/(Unfav)
OPERATING REVENUES					
Retail Water	-	-	-	-	-
Retail Wastewater	308,852,626.69	314,420,293.00	(5,567,666.31)	295,563,765.83	13,288,860.86
Wholesale Water	-	-	-	-	-
Wholesale Wastewater	83,450,495.88	77,991,451.00	5,459,044.88	78,424,565.95	5,025,929.93
Other Revenues	14,096,038.22	13,644,335.00	451,703.22	14,116,436.21	(20,397.99)
TOTAL OPERATING REVENUES	406,399,160.79	406,056,079.00	343,081.79	388,104,767.99	18,294,392.80
OPERATING & MAINTENANCE EXPENSES					
Water Source of Supply	-	-	-	-	-
Water Pumping	-	-	-	-	-
Water Treatment and Purification	-	-	-	-	-
Water Transmission and Distribution	-	-	-	-	-
Sewer Collection	32,481,170.68	35,636,372.85	3,155,202.17	34,048,558.62	1,567,387.94
Sewer Pumping	47,937,513.89	42,963,440.88	(4,974,073.01)	43,499,331.88	(4,438,182.01)
Sewer Treatment and Disposal	100,523,032.56	110,367,741.82	9,844,709.26	100,728,223.15	205,190.59
Customer Accounting	3,733,726.26	4,113,212.62	379,486.36	4,950,828.80	1,217,102.54
Customer Service	10,838,089.28	11,101,799.87	263,710.59	10,535,760.34	(302,328.94)
General and Administration	47,810,653.86	63,108,607.41	15,297,953.55	55,172,871.28	7,362,217.42
Fringes and Overhead	-	-	-	-	-
Stores Overhead	-	-	-	-	-
Vehicle Overhead	-	-	-	-	-
TOTAL OPERATING & MAINTENANCE EXPENSES	243,324,186.54	267,291,175.45	23,966,988.91	248,935,574.07	5,611,387.53
OPERATING INCOME BEFORE DEPRECIATION	163,074,974.25	138,764,903.55	24,310,070.70	139,169,193.92	23,905,780.33
Depreciation	128,094,580.71	126,855,000.00	(1,239,580.71)	124,835,710.92	(3,258,869.79)
OPERATING INCOME (LOSS)	34,980,393.54	11,909,903.55	23,070,489.99	14,333,483.00	20,646,910.54

**Miami-Dade Water and Sewer Department
Statement of Revenues, Expenses and Changes in Net Position
WASTEWATER - Wastewater Funds
For 12 Months Ending September 30, 2019**

Report Id: WGLZ11B
Run on: 01/09/20 11:43 AM
Source: GL

	Unaudited FY 2019			FY 2018	
	Actual	Budget	Variance Fav/(Unfav)	Actual	Variance Fav/(Unfav)
NON-OPERATING REVENUE (EXPENSE)					
Customer Connection Fees	32,720,165.88	-	32,720,165.88	27,821,795.83	4,898,370.05
Other Revenue	6,288,605.84	-	6,288,605.84	(8,183,033.23)	14,471,639.07
Other Expense	-	-	-	-	-
Change in Fair Value	5,958,694.24	-	5,958,694.24	(4,716,174.08)	10,674,868.32
Interest Income	9,460,342.88	5,223,195.00	4,237,147.88	6,118,835.21	3,341,507.67
Interest Expense	(82,678,498.10)	(80,442,028.00)	(2,236,470.10)	(74,120,412.88)	(8,558,085.22)
Capitalized Interest	(2,700,468.75)	-	(2,700,468.75)	47,417,198.76	(50,117,667.51)
Amortization of Debt Issue	(7,254,229.04)	(7,229,332.00)	(24,897.04)	(10,652,687.11)	3,398,458.07
Operating Disaster Revenue	-	-	-	-	-
Operating Grants	-	-	-	-	-
Job Order Recovery	783,802.86	-	783,802.86	555,452.87	228,349.99
Job Order Expenses	(1,342,430.58)	-	(1,342,430.58)	(628,222.91)	(714,207.67)
Gen Fund Admin Support Fee	-	-	-	-	-
Non-Operating Transfers	-	-	-	-	-
Non-Operating Activity	-	-	-	-	-
Non-O&M Activity	-	-	-	-	-
TOTAL NON-OPERATING REVENUE (EXPENSE)	(38,764,014.77)	(82,448,165.00)	43,684,150.23	(16,387,247.54)	(22,376,767.23)
INCOME (LOSS) BEFORE CAPITAL CONTRIBUTIONS	(3,783,621.23)	(70,538,261.45)	66,754,640.22	(2,053,764.54)	(1,729,856.69)
Capital Contributions	12,591,905.02	10,000,000.00	2,591,905.02	11,434,812.71	1,157,092.31
INCREASE (DECREASE) IN NET POSITION	8,808,283.79	(60,538,261.45)	69,346,545.24	9,381,048.17	(572,764.38)

**Miami-Dade Water and Sewer Department
GL O&M Expense Analysis by O&M Activity
As of September 30, 2019**

Report Id: WFR018
Run on: 01/09/20 11:10 AM
Source: GL

	Annual Budget 2019	CURRENT MONTH		YEAR-TO-DATE (Oct - Sept)				
		Actual 2019	Budget 2019	Actual 2019	Budget 2019	Actual 2018	Budget 2018	
OPERATING & MAINTENANCE EXPENSES								
100057	OM Activity - GL use only (SC)	535,100	105,584	43,236	736,554	535,100	746,178	506,172
212005	Sewer Collect and Trans (SC)	-	-	-	13	-	-	-
260004	Security Services (SC)	780,000	69,167	101,478	597,966	780,000	556,192	780,000
260110	Communications (SC)	1,344,932	29,799	109,774	367,400	1,344,932	368,321	1,240,288
260402	Damages (SC)	29,780	11,594	2,507	143,064	29,780	138,231	23,730
360002	Sewer Collection & Trans (SC)	-	-	-	-	-	135	-
520051	Disaster Coordination (SC)	-	-	-	-	-	320	-
520101	Install. of Elect Equip (SC)	-	13	-	13	-	2,693	-
520521	Grounds Installs/Landscp (SC)	-	-	-	-	-	93	500
520541	Grounds Maint. Services (SC)	-	-	-	364	-	681	-
520601	Indoor Air Qly Insp Compl (SC)	82,000	-	10,668	2,568	82,000	2,573	72,000
520621	Install Mech/Hvac-Refr Eq (SC)	-	6	-	1,386	-	2,820	-
520751	Install. of Plumb Equip (SC)	-	-	-	428	-	6	-
520777	Maint. of Plumbing Equip (SC)	6,000	(87)	781	8,446	6,000	10,165	500
520871	Misc Projects/Tasks (SC)	-	67	-	10,809	-	20,629	-
520901	Carpentry (SC)	-	-	-	-	-	514	-
520905	Locksmith Services (SC)	-	2	-	596	-	143	-
520913	Painting (SC)	-	-	-	-	-	31	-
520921	Structural Misc Task (SC)	-	(1,128)	-	2,948	-	309	-
620004	Sewer Collection & Trans (SC)	500,000	15,236	65,050	58,481	500,000	26,248	-
630117	Sewer Collection & Trans (SC)	2,500	-	325	-	2,500	-	5,000
650002	Sewer Collection & Trans (SC)	3,560,795	79,896	405,856	1,103,978	3,560,795	1,108,602	3,137,245
711301	Sewer Meter Related Work (SC)	1,013,933	59,948	93,998	711,056	1,013,933	1,006,925	450,759
711302	Maint Swr Meter Vaults (SC)	-	-	-	7,811	-	77,907	-
810002	Sewer Collection Actv (SC)	-	3,520	-	243,293	-	(189,198)	-
811015	Telemetry/SCADA (SC)	84,909	14,844	1,617	140,364	84,909	137,934	104,125
840001	Admin. & General (SC)	1,781,592	190,497	218,819	3,151,242	1,781,592	2,694,345	3,221,708
840002	Facilities Maint (SC)	8,800	-	1,145	13,636	8,800	10,363	10,400
840101	Cleaning (SC)	4,866,577	336,824	557,600	3,068,502	4,866,577	3,175,065	3,492,623
840102	Evaluation/Review (SC)	777,619	60,599	62,958	701,817	777,619	769,856	720,377
840103	Force Main Inspection (SC)	69,927	8,947	5,650	156,465	69,927	475,083	69,885
840104	Inspection-Repair Shop (SC)	723,733	65,667	87,620	1,005,407	723,733	817,169	424,219
840105	Joint Grouting (SC)	524,200	4,502	58,844	598,191	524,200	1,873,111	1,661,234
840106	Lateral TV Inspection (SC)	232,011	57,247	18,753	711,712	232,011	977,132	-
840107	Manhole Inspections (SC)	-	21,084	-	239,954	-	180,552	-
840108	Manhole Sealing (SC)	18,000	86,285	1,483	1,179,049	18,000	1,516,004	26,000
840109	Metering-Conductivity (SC)	511,399	79,590	52,857	280,314	511,399	164,956	415,191

**Miami-Dade Water and Sewer Department
GL O&M Expense Analysis by O&M Activity
As of September 30, 2019**

Report Id: WFR018
Run on: 01/09/20 11:10 AM
Source: GL

	Annual Budget 2019	CURRENT MONTH		YEAR-TO-DATE (Oct - Sept)			
		Actual 2019	Budget 2019	Actual 2019	Budget 2019	Actual 2018	Budget 2018
840110 Metering-Night Flow (SC)	172,931	14,638	13,973	366,844	172,931	482,801	166,523
840111 Metering-Pre/Post (SC)	59,800	-	7,780	-	59,800	-	-
840112 Special Projects Inspect (SC)	3,324,028	166,914	268,581	2,258,976	3,324,028	1,677,941	3,041,170
840113 Pump Station Improv Prog (SC)	-	1,098	-	1,098	-	-	-
840114 Smoke Test (SC)	1,200	2,157	156	202,574	1,200	37,203	326,749
840116 Wellfield Protect Inspec. (SC)	-	134,402	-	825,558	-	62,233	-
840117 I/I Contract - Inspection (SC)	1,000,000	409,590	130,100	1,068,324	1,000,000	2,858,302	500,000
840201 Air Rel Valve Maint & Ble (SC)	-	21,014	-	212,815	-	236,519	1,100
840202 Aut Air Rel Valve Install (SC)	-	1,663	-	5,961	-	959	-
840203 Autom Air Rel Valve Rep (SC)	-	41,608	-	547,794	-	452,929	-
840204 Dye Tests (SC)	-	7,360	-	60,109	-	33,119	-
840205 Force Main Installation (SC)	-	-	-	407	-	26,022	-
840206 Force Main Repairs (SC)	(370,900)	413,382	(29,574)	1,012,906	(370,900)	425,226	762,078
840207 Gravity Main Installation (SC)	-	-	-	2,627	-	3,821	-
840208 Gravity Main Point Reps (SC)	6,638,473	430,235	536,790	4,171,560	6,638,473	3,049,074	7,319,203
840209 Lateral Location (SC)	-	-	-	-	-	274	-
840210 Lateral Point Repairs (SC)	1,251,522	249,935	152,042	1,798,761	1,251,522	2,081,846	1,854,466
840211 Maint./Rep-Rep Shop (SC)	318,700	32,231	41,463	147,160	318,700	129,573	310,000
840212 Manhole Installation (SC)	-	2,771	-	13,358	-	781	-
840213 Manhole-Repairs (SC)	2,206,280	116,668	183,081	1,644,128	2,206,280	2,254,414	-
840214 Restoration (SC)	526,600	95,019	68,511	671,552	526,600	783,636	-
840215 Sewer Lateral Inspection (SC)	-	74	-	74	-	2,542	-
840216 Sewer Lateral Install. (SC)	150,000	-	150,000	148	150,000	9,118	-
840217 System Valve Exercising (SC)	1,887,483	238,821	164,045	2,065,154	1,887,483	1,762,219	1,382,877
840218 System Valve Installation (SC)	6,000	-	781	80,071	6,000	157,457	-
840219 System Valve Repair (SC)	-	180	-	(2,664)	-	316,845	-
840220 I/I Contract - Maint/Repr (SC)	950,000	(0)	123,595	(4,489)	950,000	472,874	1,200,000
840240 Assisting Other Divisions (SC)	-	2,880	-	86,365	-	58,592	-
850129 Metering (SC)	60,450	27	7,858	175	60,450	149	51,250
Sewer Collection	35,636,373	3,682,369	3,720,198	32,481,171	35,636,373	34,048,559	33,277,371

**Miami-Dade Water and Sewer Department
GL O&M Expense Analysis by O&M Activity
As of September 30, 2019**

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		Annual Budget 2019	CURRENT MONTH		YEAR-TO-DATE (Oct - Sept)			
			Actual 2019	Budget 2019	Actual 2019	Budget 2019	Actual 2018	Budget 2018
100058	OM Activity - GL use only (SP)	841,000	163,357	67,953	1,149,076	841,000	1,162,445	795,487
212006	Sewer Pumping (SP)	116,219	9,996	9,391	135,853	116,219	124,975	-
260005	Security Services (SP)	1,720,000	58,023	223,772	480,131	1,720,000	487,391	1,800,000
260120	Communications (SP)	366,796	38,394	30,740	526,866	366,796	471,990	363,499
350102	Construction Mgmt (SP)	-	-	-	6,134	-	-	-
360001	Sewer Pumping (SP)	736,220	168,585	59,635	775,490	736,220	641,269	1,753,706
520002	Admin. & General (SP)	-	25,097	-	37,915	-	21,269	17,600
520102	Install. of Elect Equip (SP)	17,418	102	1,445	102	17,418	39,538	10,765
520301	Fueling/Recovery Deliv (SP)	-	6,556	-	99,423	-	(30,024)	7,653
520462	Fire Protection System (SP)	-	-	-	-	-	1,199	-
520522	Grounds Installs/Landscp (SP)	-	-	-	134	-	404	500
520542	Grounds Maint. Services (SP)	382,990	22,762	30,946	255,155	382,990	189,524	231,517
520622	Install Mech/Hvac-Refr Eq (SP)	41,000	-	5,334	9,173	41,000	27,269	41,000
520662	Maint. of Mech Hvac Equip (SP)	40,200	5,378	5,230	14,336	40,200	16,116	39,600
520778	Maint. of Plumbing Equip (SP)	5,000	(418)	651	33,775	5,000	12,726	2,000
520872	Misc Projects/Tasks (SP)	5,000	-	651	3,132	5,000	20,611	1,500
520902	Carpentry (SP)	1,500	-	195	-	1,500	2,779	1,000
520906	Locksmith Services (SP)	-	(62)	-	2,352	-	100	-
520910	Masonry (SP)	-	-	-	12	-	789	-
520914	Painting (SP)	-	-	-	-	-	3,504	-
520922	Structural Misc Task (SP)	5,000	1,358	651	30,707	5,000	43,351	1,500
630112	Hazardous Waste Disposal (SP)	-	-	-	(15,010)	-	15,010	-
630114	Sewer Pumping (SP)	462,400	-	60,158	54,264	462,400	74,380	490,900
650001	Sewer Pumping (SP)	-	-	-	7,887	-	23,837	-
810001	Sewer Pumping Activities (SP)	-	9,014	-	-	-	(32,771)	-
811016	Telemetering/SCADA (SP)	567,787	167,526	73,150	2,120,145	567,787	2,133,299	1,846,594
830001	Adm&Gnl (SP)	1,714,798	159,837	172,401	1,835,506	1,714,798	1,964,492	2,237,868
830002	Adm&Gnl-Admin Support (SP)	638,480	49,877	51,589	542,874	638,480	451,472	1,173,082
830003	Adm&Gnl-Training (SP)	20,900	1,267	2,719	62,104	20,900	17,096	19,900
830004	Adm&Gnl-Supv (SP)	201,194	12,472	16,281	171,107	201,194	199,543	202,650
830005	Adm&Gnl-Other (SP)	363,043	82,554	42,626	925,160	363,043	1,153,239	352,088
830100	Odor Control (SP)	-	-	-	24	-	-	-
830200	Operations (SP)	-	16,944	-	89,827	-	77,215	-
830201	OP-Shutdowns (SP)	124	-	10	-	124	1,389	100
830202	OP-Bypass (SP)	-	-	-	49	-	-	-
830203	OP-Supv (SP)	1,253,798	106,886	101,754	1,183,309	1,253,798	985,978	1,022,215
830204	OP-Engineering (SP)	-	-	-	-	-	228	-
830205	OP-Operations (SP)	112,567	(803)	9,095	97,670	112,567	190,474	-
830206	OP-Other (SP)	7,200,633	264,369	583,190	1,962,663	7,200,633	1,919,186	6,187,334
830300	Equipment (SP)	7,108,400	1,143,608	724,463	7,191,325	7,108,400	6,046,362	7,255,300

**Miami-Dade Water and Sewer Department
GL O&M Expense Analysis by O&M Activity
As of September 30, 2019**

Report Id: WFR018
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		Annual Budget 2019	CURRENT MONTH		YEAR-TO-DATE (Oct - Sept)			
			Actual 2019	Budget 2019	Actual 2019	Budget 2019	Actual 2018	Budget 2018
830301	Equip-Routine (SP)	5,606,825	291,592	463,662	3,579,652	5,606,825	3,611,311	5,111,784
830302	Equip-Preventive (SP)	791,498	75,424	65,462	745,917	791,498	728,225	32,100
830303	Equip-Predictive (SP)	2,300	4,074	299	54,945	2,300	42,985	900
830304	Equip-Corrective (SP)	6,238,978	1,183,381	715,424	14,966,694	6,238,978	13,529,248	6,159,010
830305	Equip-Engineering (SP)	-	-	-	397	-	77	200
830306	Equip-Supervision (SP)	877,242	91,205	71,416	1,084,730	877,242	874,411	823,228
830307	Equip-Other (SP)	39,773	262,657	5,085	1,027,166	39,773	463,303	186,300
830401	GroundsRoutine (SP)	10,000	2,140	1,301	7,483	10,000	4,516	-
830404	GroundsCorrective (SP)	1,000	649	130	2,227	1,000	11,192	700
830405	GroundsEngineering (SP)	-	-	-	196	-	-	-
830407	GroundsOther (SP)	100	-	13	-	100	10	-
830500	Structures (SP)	16,100	5,480	2,066	32,891	16,100	20,182	148,600
830501	Struct-Routine (SP)	113,300	86,036	15,085	1,040,637	113,300	1,052,888	72,100
830502	Struct-Preventive (SP)	-	(2)	-	2,458	-	1,119	200
830503	Struct-Predictive (SP)	100	-	13	6,325	100	14,552	-
830504	Struct-Corrective (SP)	200,282	105,658	21,430	1,309,144	200,282	971,608	159,955
830505	Struct-Engineering (SP)	-	-	-	1,715	-	14,202	(127,360)
830506	Struct-Supervision (SP)	492,363	56,169	39,808	650,354	492,363	525,712	810,552
830507	Struct-Other (SP)	2,891,698	83,582	235,985	1,040,582	2,891,698	996,499	2,274,845
830601	RemAct/Spil-Supv (SP)	-	-	-	-	-	1,461	-
830603	RemAct/Spil-Shutdowns (SP)	-	-	-	147	-	5	-
830700	Inspection (SP)	-	(186)	-	18,970	-	3,570	1,100
830703	Insp-ET's (SP)	32,624	25,764	4,239	248,640	32,624	236,601	27,200
830704	Insp-Prop Pump Stations (SP)	3,100	6,338	403	33,947	3,100	38,419	14,500
830900	Emergency (SP)	124	-	10	22,791	124	3,375	100
830901	Emerg - Hurrican Preparat (SP)	3,400	47,530	442	48,619	3,400	653	-
830902	Emerg-Hurricane Recovery (SP)	1,200	4,887	156	4,887	1,200	3,874	-
830904	Emergency - Run Generator (SP)	300	753	39	44,249	300	1,269	-
830907	Assist other Division (SP)	-	30,643	-	91,048	-	16,214	-
850130	Utilities Monitoring (SP)	1,405,300	234,651	145,831	1,606,409	1,405,300	1,302,310	1,435,700
850203	Assistance to Other Div (SP)	1,550	-	164	-	1,550	-	11,050
850205	Emerg Actv/Emg Gen-Stby (SP)	-	-	-	-	-	-	50
850209	Maint/Rep-Diesel Eqp/Gens(SP)	107,515	75,543	13,206	307,998	107,515	132,728	108,208
850213	Maint/Rep-Pump Stations (SP)	203,100	18,399	23,010	157,110	203,100	355,978	226,500
850220	Maint/Rep-Struct/Grounds (SP)	50	-	6	5	50	40	50
850222	Underground Piping/Valves (SP)	1,050	-	134	10,512	1,050	64,424	1,050
850224	Remedial Action/Spills (SP)	100	-	13	-	100	-	100
850226	Telemetry/SCADA (SP)	-	-	-	-	-	8,003	-
850228	Odor Control (SP)	-	-	-	-	-	10,716	-
Sewer Pumping		42,963,441	5,205,049	4,098,864	47,937,514	42,963,441	43,499,332	43,334,079

**Miami-Dade Water and Sewer Department
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As of September 30, 2019**

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	Annual Budget 2019	CURRENT MONTH		YEAR-TO-DATE (Oct - Sept)				
		Actual 2019	Budget 2019	Actual 2019	Budget 2019	Actual 2018	Budget 2018	
100059	OM Activity - GL use only (ST)	1,628,916	404,405	132,436	2,301,217	1,628,916	2,331,244	1,525,102
210001	Sewer Trmnt & Disposal (ST)	6,500,000	-	541,667	-	6,500,000	-	-
212007	Sewer Treat and Disposal (ST)	302,314	25,394	24,469	329,043	302,314	311,182	-
227001	Sewer Treatment Activity (ST)	483,194	27,796	39,641	338,805	483,194	623,758	445,767
228001	Sewer Treatment Activity (ST)	294,023	14,920	23,915	189,624	294,023	239,359	235,431
260006	Security Services (ST)	3,500,000	120,963	455,350	1,657,295	3,500,000	2,259,451	3,500,000
320002	Expense Projects (ST)	-	2,489	-	48,074	-	-	-
350107	Construction Mgmt (ST)	-	-	-	-	-	138	-
520302	Fueling/Recovery Deliv (ST)	-	4,367	-	53,843	-	(49,883)	10,000
520463	Fire Protection System (ST)	1,000	685	130	23,195	1,000	7,304	-
520501	Grounds Contract Services (ST)	484,037	21,597	56,037	369,610	484,037	453,481	322,000
520523	Grounds Installs/Landscp (ST)	-	-	-	7,782	-	20,259	6,400
520543	Grounds Maint. Services (ST)	1,385,143	98,515	115,677	1,171,690	1,385,143	1,549,029	1,564,176
520623	Install Mech/Hvac-Refr Eq (ST)	-	49,825	-	50,236	-	-	-
520663	Maint. of Mech Hvac Equip (ST)	1,364,249	41,190	134,219	936,355	1,364,249	961,771	1,304,022
520779	Maint. of Plumbing Equip (ST)	-	-	-	444	-	692	-
520873	Misc Projects/Tasks (ST)	208,787	-	20,859	8,154	208,787	14,124	6,459
520923	Structural Misc Task (ST)	12,000	-	1,561	-	12,000	-	9,000
520974	Rentals-Other Divisions (ST)	860,000	73,045	111,886	818,678	860,000	781,397	633,000
610001	Sewer Treatment Plant (ST)	-	-	-	-	-	169,190	-
620001	Sewer Treatment Plant (ST)	1,152,000	860,977	149,875	1,148,618	1,152,000	1,215,931	1,500,000
630102	Hazardous Waste Disposal (ST)	-	-	-	-	-	-	-
630119	Sewer Treatment Plant (ST)	499,800	155,591	62,991	337,778	499,800	413,501	406,730
740001	LabS Treat & Disp Exp (ST)	3,045,933	233,077	272,847	2,752,890	3,045,933	2,774,339	3,070,972
810003	Sewer Treatment Actv (ST)	250,000	39,850	32,525	320,928	250,000	394,215	6,750,000
811017	Telemetering/SCADA (ST)	4,920,996	240,533	426,943	2,815,831	4,920,996	2,483,143	4,439,220
811018	Main/Rep-Rad/Com Eq (ST)	41,600	6,313	4,504	44,712	41,600	60,460	89,300
811021	Instl/Rep/Cam/Surv Eq (ST)	233,215	16,212	18,882	203,990	233,215	276,929	366,350
850001	Admin. & General (ST)	29,714,770	3,490,799	2,646,001	34,961,486	29,714,770	30,515,428	26,450,010
850002	Adm&Gnl-CMMS (ST)	491,787	48,199	43,047	437,780	491,787	445,688	585,238
850003	Adm&Gnrl-Supervision (ST)*	150	-	15	-	150	-	150
850004	Adm & Gnl-Permitting (ST)	17,375	1,278	2,258	57,656	17,375	29,110	2,975
850005	CDL Random Testing (ST)	200	-	16	154	200	-	200
850006	Training (ST)	21,584	(631)	2,644	106,432	21,584	90,112	34,377
850007	Union Activities (ST)	200	-	24	-	200	-	200
850103	Emerg Power Generation (ST)	10,306	(589)	1,067	4,794	10,306	2,037	6,653
850104	Odor Control (ST)	5,423,906	681,347	446,974	6,595,531	5,423,906	8,133,194	6,612,157
850105	Effluent Pumping (ST)	-	-	-	-	-	8,798	-
850106	Pumping Stations (ST)	39,496	-	4,996	-	39,496	302	72,553

**Miami-Dade Water and Sewer Department
GL O&M Expense Analysis by O&M Activity
As of September 30, 2019**

Report Id: WFR018
Run on: 01/09/20 11:10 AM
Source: GL

	Annual Budget 2019	CURRENT MONTH		YEAR-TO-DATE (Oct - Sept)			
		Actual 2019	Budget 2019	Actual 2019	Budget 2019	Actual 2018	Budget 2018
850109 Training (ST)	84,853	7,276	7,729	94,947	84,853	130,513	60,140
850111 Purchased Treatment (ST)	1,100	-	93	-	1,100	-	1,100
850112 Reuse Facility (ST)	6,006	-	505	7,537	6,006	-	5,683
850114 Sludge Cons & Diges Ops (ST)	23,772	-	1,979	661	23,772	2,782	264,791
850115 Dewatering (ST)	3,014,230	249,948	247,295	3,721,054	3,014,230	3,485,573	2,966,868
850116 Solids Handling (ST)	12,967,990	531,023	1,068,371	9,537,871	12,967,990	11,023,274	15,075,364
850117 Headworks (ST)	1,000	-	130	-	1,000	11	-
850119 Secondary Clarification (ST)	33,624	(367)	2,801	(320)	33,624	15,519	103,659
850120 O2 Generation (ST)	568,100	115,125	53,256	552,716	568,100	463,035	1,083,551
850121 Non Emer Power Generation (ST)	367,437	13,738	29,903	249,255	367,437	253,898	947,016
850122 Final Station (ST)	250	-	33	-	250	1,471	250
850123 Deep Well Injection (ST)	1,710,400	738	222,523	435,923	1,710,400	991,220	1,210,400
850124 Tanker Duty (ST)	11,612	278	964	2,139	11,612	2,687	538
850125 Biosolids Processing (ST)	51,950	-	4,347	2,677	51,950	111	51,450
850127 Vessel Cleaning (ST)	146,450	(1,767)	12,164	17,514	146,450	147,143	195,970
850128 Special Projects (ST)	122,458	638	13,158	26,662	122,458	19,305	80,933
850202 Other Maintenance (ST)	463,263	100,252	58,376	757,378	463,263	500,375	455,531
850204 Assistance to Other Div (ST)	44,822	11,482	3,904	72,178	44,822	46,453	21,533
850206 Emerg Actv/Emerg Gen-Stby (ST)	98,690	8,121	8,734	136,192	98,690	116,239	44,763
850208 Maint/Rep-Co-Generation(ST)	680,445	150,340	68,451	1,568,030	680,445	1,235,037	145,071
850210 Maint/Rep-Diesel Eqp/Gens(ST)	2,982,259	124,498	267,208	1,903,756	2,982,259	2,459,508	2,744,278
850211 Maint/Rep-Plant Equipment (ST)	17,702,554	1,383,489	1,637,262	15,782,259	17,702,554	15,161,112	16,075,216
850212 Maint/Rep-Instr/Ctrls/Mtrs(ST)	1,080,048	56,396	104,690	374,136	1,080,048	1,515,765	2,032,542
850214 Maint/Rep-Pump Stations (ST)	2,050	-	252	1,497	2,050	2,116	4,050
850215 Maint/Rep-Radio/Comm (ST)	350	-	46	-	350	-	350
850216 Maint/Rep-Cryogenic Plant (ST)	8,674	24,501	947	102,783	8,674	90,428	17,781
850217 Maint/Rep-Sldg Concnt/Digs(ST)	291,123	26,391	37,244	102,015	291,123	50,738	209,580
850218 Maint/Rep-Sldg Dewatering(ST)	42,822	40,673	5,452	177,085	42,822	60,101	47,133
850219 Maint/Rep-Sludge Handling (ST)	701,226	4,729	56,704	60,248	701,226	59,215	713,932
850221 Maint/Rep-Struct/Grounds (ST)	2,747,813	267,345	234,185	3,641,004	2,747,813	3,628,485	2,829,312
850223 Underground Piping/Valves (ST)	180,524	115,444	17,449	734,237	180,524	478,699	521,506
850225 Remedial Action/Spills (ST)	1,750	-	202	-	1,750	-	1,750
850227 Telemetering/SCADA (ST)	200	(962)	26	27,428	200	74,895	200
850230 Special Projects (ST)	1,340,916	260,161	110,245	2,341,543	1,340,916	2,196,837	735,713
Sewer Treatment and Disposal	110,367,742	10,147,634	10,050,083	100,523,033	110,367,742	100,728,223	108,596,394
TOTAL O&M EXPENSES	468,591,705	43,454,063	48,783,501	425,257,628	468,591,705	423,307,064	445,194,203
TOTAL DIRECT O&M WASTEWATER SYSTEM EXPENSES				180,941,717		178,276,114	
				Oct-Sep FY 2019		Oct-Sep FY 2018	

Miami-Dade Water and Sewer Department
Wastewater Capital Expenditures by Project/Sub-Projects

Data for 10/1/18 through 9/30/19 as of 9/30/19

PROJECT NUMBER	PROJECT DESCRIPTION	SUBPROJECT NUMBER	SUB PROJECT DESCRIPTION	EXPENDITURES FROM 10/1/18 - 9/30/19
1002	NORTH DISTRICT UPGRADES - WASTEWATER TREATMENT PLANT	101638	NDWWTP - INJECTION WELLS PS UPGRADE	\$293,408
1002	NORTH DISTRICT UPGRADES - WASTEWATER TREATMENT PLANT	101947	NDWWTP FA MONITORING WELLS TO MEET FDEP REQ.	\$11,417
1006	SOUTH DISTRICT WASTEWATER TREATMENT PLANT EXPANSION - PHASE III	102102	SDWWTP FA MONITORING WELL REPLACEMENT	\$46,819
1007	SOUTH DISTRICT UPGRADES - WASTEWATER TREATMENT PLANT	102184	SDWWTP FOG RECOVERY STATION	\$571,399
1008	NORTH MIAMI-DADE WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	101768	WASD SERVICE AREA WEST OF I-75 AND NORTH OF NW 170 ST. (AREA SURROUNDING AMERICAN DREAM MALL)	\$556,707
1008	NORTH MIAMI-DADE WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	102072	NL-1A TO PHASE I: 48" FM FROM BISCAYNE BLVD. TO N. MIAMI AVE.	\$1,774,629
1009	CENTRAL MIAMI-DADE WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	102200	BISCAYNE BASIN PROJECTS RELATED TO CL-1	\$15,727,501
1011	FLOW REDUCTION PROGRAM (FRP)	100050	REHABILITATION OF SEWER MAINS DUE TO I/I - SECTIONAL LINING	\$973,443
1012	SANITARY SEWER SYSTEM IMPROVEMENTS	102229	DESIGN BUILD REPLACEMENT OF GRAVITY MAIN IN SHENANDOAH AREA - PHASE B	\$46,723
1013	WASTEWATER GENERAL MAINTENANCE AND OFFICE FACILITIES	101506	SOUTH MAINTENANCE CENTER	\$3,389
1013	WASTEWATER GENERAL MAINTENANCE AND OFFICE FACILITIES	101887	MEDLEY YARD BUILDING	\$242,875
1013	WASTEWATER GENERAL MAINTENANCE AND OFFICE FACILITIES	103005	SOUTH MIAMI HEIGHTS TRAILER INSTALLATION AND SITE DEVELOPMENT	\$388,443
1015	PUMP STATION IMPROVEMENTS PROGRAM	101454	PUMP STATION IMPROVEMENT PROGRAM	\$24,690,995
1018	PEAK FLOW MANAGEMENT FACILITIES	101774	Force Main in Doral 36-Inch Diameter Sanitary Sewer FM: in 107 Avenue - from NW 7 St. to NW 25 Street 36-Inch Diameter Sanitary Sewer Force Main: In 107 Avenue – from N.W.7 Street to N.W. 25 Street	\$97,340
1019	SANITARY SEWER SYSTEM EXTENSION	100877	SANITARY SEWER SYSTEM EXTENSION	\$6,119,519
1019	SANITARY SEWER SYSTEM EXTENSION	101733	SANITARY SEWER SYSTEM EXTENSION FOR JPA's	\$89,644
1021	PUMP STATION GENERATORS AND MISCELLANEOUS UPGRADES	102164	REPLACEMENT OF CONE VALVES AT PS# 1310	\$1,586,263
1023	WASTEWATER TELEMETERING SYSTEM	100621	TELEMETERING SYSTEM - WASTEWATER	\$434,787
1024	WASTEWATER SYSTEM MAINTENANCE AND UPGRADES	100622	WASTEWATER SYSTEM UPGRADES	\$16,312,500
1025	LIFT STATION UPGRADES AND STRUCTURAL MAINTENANCE IMPROVEMENTS	100623	LIFT STATION STRUCTURAL MAINTENANCE & UPGRADES	\$1,227,615
1027	WASTEWATER EQUIPMENT AND VEHICLES	100625	MISCELLANEOUS TOOLS AND EQUIPMENT	\$68,976
1027	WASTEWATER EQUIPMENT AND VEHICLES	101729	VEHICLES/TRANSPORTATION EQUIPMENT	\$4,832,901
1027	WASTEWATER EQUIPMENT AND VEHICLES	101730	HEAVY CONSTRUCTION EQUIPMENT	\$1,746,176
1029	WASTEWATER TREATMENT PLANTS REPLACEMENT AND RENOVATION	100627	WASTEWATER TREATMENT PLANTS REHABILITATION	\$11,121,282
1029	WASTEWATER TREATMENT PLANTS REPLACEMENT AND RENOVATION	101732	SECURITY PROJECTS	\$82,689
1040	OCEAN OUTFALL LEGISLATION REGULATORY	101867	CDWWTP HLD FILTERS (141 MGD) (CT-2)	\$1,018,697
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102007	NDWWTP- BZ DEEP INJECTION WELLS (NE-2) (WIFIA)	\$367,262
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102010	CDWWTP- BZ DEEP INJECTION WELLS (CE-2) (WIFIA)	\$561,814
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102038	CDWWTP - CENTRATE INJECTION WELL (CE-4)	\$3,340,186
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102073	CDWWTP - PEAK FLOW TREATMENT (CT-3)	\$0
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102096	CDWWTP PUMP STATION FOR CENTRATE WELL (CE-3)	\$16,694,879

Miami-Dade Water and Sewer Department
Wastewater Capital Expenditures by Project/Sub-Projects

Data for 10/1/18 through 9/30/19 as of 9/30/19

PROJECT NUMBER	PROJECT DESCRIPTION	SUBPROJECT NUMBER	SUB PROJECT DESCRIPTION	EXPENDITURES FROM 10/1/18 - 9/30/19
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102138	OWNERS REPRESENTATIVE SERVICES FOR OOL PROGRAM AND WASTEWATER SYSTEM	\$915,812
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102150	SE-2 SDWWTP BZ DEEP MUNICIPAL INJECTION WELLS (WIFIA)	\$169,464
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102222	CDWWTP ELECTRICAL DISTRIBUTION BUILDINGS 2 AND 3 (CT-3C)	\$1,003,302
1041	GENERAL OBLIGATION BOND (GOB)	101612	SANITARY SEWER NEEDS ASSESSMENT	\$161,396
1042	WASTEWATER - PIPES AND INFRASTRUCTURE PROJECTS	101967	WASTEWATER - PIPES AND INFRASTRUCTURE PROJECTS	\$132,702
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102500	SDWWTP - Headworks	\$123,472
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102501	SDWWTP - Oxygen Production	\$2,999,259
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102502	SDWWTP - Oxygenation Trains	\$291,366
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102503	SDWWTP - Chlorine Building	\$126,908
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102504	SDWWTP - Effluent Pump Station	\$1,146,794
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102506	SDWWTP - Digesters and Control Buildings	\$32,215,135
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102507	SDWWTP - Dewatering Facility	\$43,968
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102508	SDWWTP - FOG Removal Facility	\$3,784,371
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102509	SDWWTP - Odor Control	\$612,077
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102510	SDWWTP - General Electrical	\$293,614
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102511	SDWWTP - Chlorine Contact Chamber Structural	\$536,012
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102600	CDWWTP - Electrical Improvements	\$667,143
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102601	CDWWTP - Building improvements	\$538,793
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102602	Headworks Plant 1	\$2,674,754
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102603	CDWWTP - Headworks Plant 2	\$3,178,331
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102604	CDWWTP - Oxygenation Trains Plant 1	\$173,679
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102606	CDWWTP - Secondary Clarifiers Plant 1	\$44,368
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102607	CDWWTP - Secondary Clarifiers Plant 2	\$2,018,567
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102608	CDWWTP - RS Pump Stations Plant 1	\$799,426
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102609	CDWWTP - RS Pump Stations Plant 2	\$2,893,599
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102610	CDWWTP - Effluent Pump Station	\$157,540
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102613	CDWWTP - Digesters Plant 1	\$113,373
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102614	CDWWTP - Digesters Plant 2	\$26,341,214
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102615	CDWWTP - Dewatering Building	\$441,750
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102616	CDWWTP - Chlorination Facilities	\$2,061,032

Miami-Dade Water and Sewer Department
Wastewater Capital Expenditures by Project/Sub-Projects

Data for 10/1/18 through 9/30/19 as of 9/30/19

PROJECT NUMBER	PROJECT DESCRIPTION	SUBPROJECT NUMBER	SUB PROJECT DESCRIPTION	EXPENDITURES FROM 10/1/18 - 9/30/19
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102618	CDWWTP - Co-Gen Facility	\$24,501,020
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102620	CDWWTP - Pump Station 1	\$4,002,180
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102621	CDWWTP - Pump Station 2	\$1,236,692
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102624	CDWWTP - Ventilation Improvements	\$183,798
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102626	CDWWTP - Oxygen Production	\$5,596,184
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102628	CONSENT DECREE PROGRAM MANAGEMENT & CONSTRUCTION MANAGEMENT	-\$1,764,371
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102700	NDWWTP - Headworks and Sludge Degritting Transfer	\$1,091,496
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102701	NDWWTP - Primary Clarifiers and Odor Control	\$10,760,093
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102703	NDWWTP - Oxygen Production	\$654,724
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102704	NDWWTP - Secondary Clarifiers	\$2,941,300
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102705	NDWWTP - Disinfection	\$2,139,368
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102706	NDWWTP - Effluent Disposal	\$459,820
1045	WASTEWATER COLLECTION AND TRANSMISSION LINES - CONSENT DECREE PROJECTS	102800	Collection System I/I Repairs	\$14,937,103
1045	WASTEWATER COLLECTION AND TRANSMISSION LINES - CONSENT DECREE PROJECTS	102804	South Dade 54 inch PCCP FM Rehabilitation	\$3,430,921
1045	WASTEWATER COLLECTION AND TRANSMISSION LINES - CONSENT DECREE PROJECTS	102807	Rehabilitation of 54 inch PCCP FM in the City of Miami	\$1,961,166
1045	WASTEWATER COLLECTION AND TRANSMISSION LINES - CONSENT DECREE PROJECTS	102808	Replace Approximately 25 miles of AC force mains	\$7,647,654
1045	WASTEWATER COLLECTION AND TRANSMISSION LINES - CONSENT DECREE PROJECTS	102809	Opa-Locka Airport 48" PCCP force main replacement	\$2,320,007
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102900	DORAL BASIN - UPGRADE SEWAGE PS No. 418	\$2,303,479
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102902	Upgrade of PS#0692	\$5,404,857
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102903	Replacement of Switchgear PS#0414	\$3,893,644
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102904	Replacement of Switchgear and Rehabilitation of Wet well PS#0415	\$3,910,590
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102905	Replacement of Switchgear PS#0416	\$2,935,274
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102906	Replacement of Switchgear and Rehabilitation of Wet well PS#0417	\$1,076,677
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102908	Replacement of Plumbing and Electrical Equipment at PS#0301	\$331,848
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102909	Upgrade of PS#0488	\$10,949
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102910	Installation of 60 inch FM from Kendall Dr to PS#0536	\$1,233,731
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102911	Replacement of Switchgear at PS#0187	\$1,667,155

Miami-Dade Water and Sewer Department
Wastewater Capital Expenditures by Project/Sub-Projects

Data for 10/1/18 through 9/30/19 as of 9/30/19

PROJECT NUMBER	PROJECT DESCRIPTION	SUBPROJECT NUMBER	SUB PROJECT DESCRIPTION	EXPENDITURES FROM 10/1/18 - 9/30/19
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102914	Upgrade of PS #0065, 0201, 0334, 0374, 0607	\$178,033
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102915	Upgrade of PS #00198, 0437, 0466, 0680	\$357,934
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102916	Upgrade of PS #0037, 0351, 0370, 0403	\$781,392
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102917	Upgrade of PS #0441, 0491, 0710, 0827, 0852, 1236	\$4,624,774
1047	WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT	103000	WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT - GRAVITY AND FORCE MAINS	\$2,427,019
1047	WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT	103001	WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT - PUMP STATIONS	\$503,688
1047	WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT	103002	SUPPLEMENTAL ENVIRONMENT PROJECT (SEP)	\$2,595,846
1048	OCEAN OUTFALL LEGISLATION CAPACITY	101757	48/36/42-INCH FM FROM INTERCEPTOR TO PS 2 DISCHARGE - BISCAYNE BASIN IMPROVEMENTS (CL-1)	\$8,456,659
1048	OCEAN OUTFALL LEGISLATION CAPACITY	102055	ST-1 TO SDWWTP UPGRADES TO 121 MGD ADF	\$4,308,189
1048	OCEAN OUTFALL LEGISLATION CAPACITY	102056	ST-2 SDWWTP UPGRADES FROM 121 MGD TO 131 MGD ADF	\$6,183,730
1048	OCEAN OUTFALL LEGISLATION CAPACITY	103011	SDWWTP - Electrical Building (ST-2D)	\$2,659,291
1049	ESTABLISHED A PUMP STATION RESILIENCE PROGRAM (PSRP)	101710	MASTER PUMP STATION NO. 3 (FORMERLY P.S. 8)	\$42,289
1049	ESTABLISHED A PUMP STATION RESILIENCE PROGRAM (PSRP)	102192	OUT OF COMPLIANCE PUMP STATIONS	\$854,371
1048	OCEAN OUTFALL LEGISLATION CAPACITY	102012	SOUTHWEST DADE BOOSTER STATION (SP-1)	-\$453,118
1048	OCEAN OUTFALL LEGISLATION CAPACITY	102078	SL-3A TO 48"/54" FM FROM SP-1 TO INTERSECTION OF SW 137th AVE/SW 136th St.	-\$656,730
1048	OCEAN OUTFALL LEGISLATION CAPACITY	102079	SL-2 TO 54"/60" FM FROM SP-1 TO SL-1B	-\$2,289,521
1048	OCEAN OUTFALL LEGISLATION CAPACITY	102121	SL-1 TO SL-1B.2: 54/72" FM CONNECTION FROM SW 248th ST/SW 112th AVE TO SDWWTP	-\$680,055
1048	OCEAN OUTFALL LEGISLATION CAPACITY	102158	SL-3B TO 48"/54" FM ALONG 137th AVE FROM SW 136th St TO SW 104th ST	-\$838,778
			TOTAL	\$331,611,874