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VIA ELECTRONIC CORRESPONDENCE

January 31, 2017

CCN: 60811
File No: 8.DC.20.33

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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 – 2016
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 2016 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, 2016 through December 31, 2016. The report also includes the anticipated work to be completed over the next two calendar quarters through June 30, 2017.

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,



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

Attachment: 2016 Semi-Annual Report No. 2

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2016 Semi-Annual Report No. 2 (Fifth Semi-Annual Report)

July 1, 2016 through December 31, 2016

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
EFT	Electronic Funds Transfer
EPA	Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
FM	Force Main
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
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
SSO	Sanitary Sewer Overflow
VFD	Variable Frequency Drive
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, 2016 through December 31, 2016), and also provides projections for significant projects and activities anticipated to be completed in the next two calendar quarters (January 1, 2017 through June 30, 2017).

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.

The County has failed to meet the CD Compliance Date of December 31, 2016 for CD Appendix D-2 Capital Improvement Project (CIP) 5.16. Beside the aforementioned requirement, all other CD requirements were met for the previous two calendar quarters. The projects, activities, and milestones achieved, and the deliverables submitted to EPA/FDEP for review and comment are listed in Table 1-1. The upcoming projects, activities, milestones, and deliverables for the next two calendar quarters are listed in Table 1-2. Additional program and project information is included in the 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 Response to EPA and FDEP Comments on PSOPMP	Section VI, para 19(f)	N/A	7/29/2016	Yes
Post Response to EPA and FDEP Comments on PSOPMP in PDR	Section V, para 9	1 business day after submittal	7/29/2016	Yes
Submit 2016 Quarterly Report No. 2	Section IX, para 32	8/1/2016	7/29/2016	Yes
Post 2016 Quarterly Report No. 2 in PDR	Section IX, para 36	1 business day after submittal	7/29/2016	Yes
Submit 2016 Semi-Annual Report No. 1	Section IX, para 33	8/1/2016	8/1/2016	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)
Post 2016 Semi-Annual Report No. 1 in PDR	Section IX, para 36	1 business day after submittal	8/1/16	Yes
Submit 2016 Request for Modification to Interim Milestones Report No. 3	Section VI, para 19(i) Section XX, para 82	N/A	8/8/2016	Yes
Post 2016 Request for Modification to Interim Milestones Report No.3 in PDR	Section V, para 9	1 business day after submittal	8/8/2016	Yes
Submit Response to EPA and FDEP Comments on GSSOMP	Section VI, para 19(e)	N/A	8/12/2016	Yes
Post Response to EPA and FDEP Comments GSSOMP in PDR	Section V, para 9	1 business day after submittal	8/12/2016	Yes
Submit Force Majeure Notification Letter for CD Appendix D-2 CIP 4.8	Section XI, para 52	N/A	9/8/2016	Yes
Post Force Majeure Notification Letter for CD Appendix D-2 CIP 4.8 in PDR	Section V, para 9	1 business day after submittal	9/8/2016	Yes
Submit Force Majeure Follow-up Letter for Consent Decree Appendix D-2 CIP 4.8	Section XI, para 52	N/A	9/30/2016	Yes
Post Force Majeure Follow-up Letter for Consent Decree Appendix D-2 CIP 4.8 in PDR	Section V, para 9	1 business day after submittal	9/30/2016	Yes
Submit 2016 Request for Modification to Interim Milestones Report No. 4	Section VI, para 19(i) Section XX, para 82	N/A	10/5/2016	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)
Post 2016 Request for Modification for Non-Material Change to Interim Milestones Report No.4 in PDR	Section V, para 9	1 business day after submittal	10/5/2016	Yes
Submit Payment of 2016 EPA and FDEP Stipulated Penalties	Section X, para 44 and 46; Section VII, para 21	10/16/2016	10/14/2016	Yes
Post Payment of 2016 EPA and FDEP Stipulated Penalties in PDR	Section V, para 9	1 business day after submittal	10/14/2016	Yes
Submit Force Majeure Notification Letter Hurricane Matthew	Section XI, para 52	N/A	10/19/2016	Yes
Post Force Majeure Notification Letter Hurricane Matthew in PDR	Section V, para 9	1 business day after submittal	10/19/2016	Yes
Submit 2016 Quarterly Report No. 3	Section IX, para 32	10/31/2016	10/28/2016	Yes
Post 2016 Quarterly Report No. 3 in PDR	Section IX, para 36	1 business day after submittal	10/28/2016	Yes
Submit Response to EPA and FDEP Comments on WWTP OMP	Section VI, para 19(h)	N/A	11/21/2016	Yes
Post Response to EPA and FDEP Comments WWTP OMP in PDR	Section V, para 9	1 business day after submittal	11/21/2016	Yes
Submit Payment of 2016 FDEP Demand for Stipulated Penalties	Section X, para 44 and 46; Section VII, para 21	12/07/2016	12/07/2016	Yes

CD Projects, Activities, and Milestones	CD Reference	CD Deadline	Completion or Submittal Date	CD Compliant (Yes/No)
Post Payment of 2016 FDEP Demand for Stipulated Penalties in PDR	Section V, para 9	1 business day after submittal	12/07/2016	Yes
Submit 2016 Request for Modification to Interim Milestones Report No. 5	Section VI, para 19(i) Section XX, para 82	N/A	12/21/2016	Yes
Post 2016 Request for Modification for Non-Material Change to Interim Milestones Report No.5 in PDR	Section V, para 9	1 business day after submittal	12/21/2016	Yes
Submit Potential Failure to Meet CD Compliance Date for CIP 5.16	Section VI, para 19(i)	N/A	12/23/2016	Yes
Post Potential Failure to Meet CD Compliance Date for CIP 5.16 in PDR	Section V, para 9	1 business day after submittal	12/23/2016	Yes
CD Capital Improvement Project (CIP) 4.3 - Government Cut Phase 3	Section VI, para 19 (i)	4/8/2017	11/30/2016	Yes
CD CIP 5.10 – Upgrade of Pump Station No. 0488	Section VI, para 19 (i)	5/9/2018	12/8/2016	Yes

CD Projects, Activities, and Milestones	CD Reference	CD Deadline	Anticipated Completion or Submittal Date
Submit 2016 Quarterly Report No. 4	Section IX, para 32	1/31/2017	1/31/2017
Post 2016 Quarterly Report No. 4 in PDR	Section IX, para 36	1 business day after submittal	1 business day after submittal
Submit 2016 Semi-Annual Report No.2	Section IX, para 33	1/31/2017	1/31/2017
Post 2016 Semi-Annual Report No.2	Section IX, para 36	1 business day after submittal	1 business day after submittal

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 2016 Annual Report	Section IX, para 34	3/1/2017	3/1/2017
Post 2016 Annual Report in PDR	Section IX, para 36	1 business day after submittal	1 business day after submittal
Submit 2017 Quarterly Report No. 1	Section IX, para 32	5/1/2017	5/1/2017
Post 2017 Quarterly Report No. 1 in PDR	Section IX, para 36	1 business day after submittal	1 business day after submittal
CD CIP 4.8 – Rehabilitation of 54-inch PCCP FM in the City of Miami	Section VI, para 19(i)	4/9/2017	4/9/2017
CD CIP 5.16 – Upgrade of Pump Station Nos. 0198, 0437, 0466 and 0680	Section IV para 19 (i) and CD Appendix D-2	12/31/2016	2/13/2017

Table 1-3 is an “Issues Log” which includes issues that have been identified by MDWASD, Department of Regulatory and Economic Resources-Division of Environmental Resources Management (“RER-DERM”), EPA or FDEP 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	7/16/15	The CD states in Section X Stipulated Penalties Paragraph 50, “In exercising its discretion of whether to assess a stipulated penalty for an SSO, EPA and/or FDEP will consider the amount of sewage recovered.” Therefore, it is MDWASD’s intention to initiate, when applicable perform, the calculation or estimation of recovered SSO volume. MDWASD will develop the processes and procedures and submit them to EPA/FDEP for approval.	On March 11, 2016, WASD submitted a SOP for calculating recovered SSO volume to EPA/FDEP for review and approval. Final decision still pending.

Table 1-3 Issues Log

Item	Date	Description	Resolution/Clarification/Decision
2	9/17/15	Implementation schedules are required to be included in CMOM Program deliverables. However, these programs are interrelated and one program directly affects another. On the January 22, 2015 CD Program Monthly Progress Meeting with EPA and FDEP, WASD recommended that a consolidated implementation schedule be developed once all of the CMOM Program deliverables have been submitted.	EPA/FDEP followed up with an email on March 19, 2015 and agreed to allow WASD to submit a consolidated implementation schedule for all CMOM programs once all program documents have been submitted. On the September 17, 2015 CD Program Monthly Progress Meeting with EPA and FDEP, Miami-Dade requested a deadline of March 2016 for the submittal of the CMOM Programs Consolidated Schedule of Implementation Activities. EPA and FDEP agreed to the requested deadline. WASD will submit a Consolidated Implementation Schedule for CMOM Programs to EPA/FDEP for review and approval by March 31, 2016. On March 31, 2016, the CMOM Programs Consolidated Implementation Schedule was submitted to EPA and FDEP for review and approval. Final decision still pending.

Table 1-3 Issues Log

Item	Date	Description	Resolution/Clarification/Decision
3	12/04/15	<p>On the December 4, 2015 CD Program Monthly Progress Meeting with EPA and FDEP, WASD presented reasons for rehabilitating 3 clusters/12 digesters at the Central District WWTP, deleting CD Project 2.14 and modifying CD Project 2.15 description. Due to improvements in thickening systems as a result of CD 2.12/2.13/2.16 Thickening and Dewatering, WASD has confirmed that only 2 digester clusters are required to treat the biosolids generated under design conditions and permitted plant capacity.</p>	<p>EPA/FDEP verbally agreed to the proposal and mentioned that they felt the change was a non-material change of the Consent Decree. They requested a formal request for the proposed change. WASD submitted a Request for Non-Material Change for CD Appendix D CIP 2.14 and 2.15 on February 8, 2016. At the April 21, 2016 CD Program Monthly Progress Meeting, Brad Ammons mentioned that the formal request for the proposed modification of projects due to improvements in thickening systems for CDWWTP CIPs 2.14 and 2.15 would constitute a material change to the CD for CIP 2.14 since there was no work being done on Digester Clusters 1 & 2. He suggested WASD reassess the possibility of repurposing the CDWWTP Digester Clusters 1 & 2 and resubmit a request for a different proposed modification of CIP 2.14. On May 13, 2016, WASD resubmitted the Request for the Non-Material Change for CD Appendix D CIP 2.15. WASD is reexamining the possibility of repurposing the CDWWTP Digester Clusters 1 & 2 and will resubmit a different request for the modification of CIP 2.14. On August 2, 2016, WASD received EPA and FDEP approval for modification of CIP 2.15. WASD submittal of proposed modification of CIP 2.14 is still pending.</p>

Table 1-3 Issues Log

Item	Date	Description	Resolution/Clarification/Decision
4	12/04/15	On the December 4, 2015 CD Program Monthly Progress Meeting with EPA and FDEP, WASD proposed an alternate approach (new mechanical thickening centrifuges) to be used in lieu of rehabilitating existing gravity thickeners and merging CD South District CIPs 1.06 and 1.08 into a single project.	EPA/FDEP verbally agreed to the proposal and mentioned that they felt the change was a non-material change of the Consent Decree. They requested a formal request for the proposed change. WASD affirmed that the CD description for CD Appendix D CIP 1.08 remained the same but submitted a Request for Non-Material Change for CD Appendix D CIP 1.06 on February 8, 2016. On August 2, 2016, WASD received EPA and FDEP approval for modification of CIP 1.06.
5	12/04/15	On the December 4, 2015 CD Program Monthly Progress Meeting with EPA and FDEP, WASD proposed an alternate approach (new mechanical thickening centrifuges) to be used in lieu of rehabilitating existing gravity thickeners and merging CD Central District CIPs 2.12, 2.13 and 2.16 into a single project.	EPA/FDEP verbally agreed to the proposal and mentioned that they felt the change was a non-material change of the Consent Decree. They requested a formal request for the proposed change. WASD submitted a Request for Non-Material Change for CD Appendix D CIPs 2.12 and 2.13 on February 11, 2016. On August 2, 2016, WASD received EPA and FDEP approval for modification of CIPs 2.12 and 2.13.
6	07/28/16	At the July 28, 2016 CD Program Monthly Progress Meeting with EPA and FDEP, WASD inquired if the CD 60-day turn-around timeframe requirement for response to EPA/FDEP comments on deliverables would be in effect.	Brad Ammons mentioned that the 60-day turn-around timeframe requirement for responses would be a good guideline going forward. Miami-Dade will respond to EPA/FDEP comments on deliverables within 60-days of certified mailroom receipt.
7	10/20/16	At the October 20, 2016 CD Program Monthly Progress Meeting with EPA and FDEP, WASD requested that EPA/FDEP prioritize their review of response to CMOM Program's comments letters vs. review of CMOM Programs.	Brad Ammons mentioned that he thought it was a good idea and agreed to the request. EPA/FDEP will prioritize reviewing the County's response to EPA/FDEP comments on CMOM Programs upon receipt.

Table 1-3 Issues Log

Item	Date	Description	Resolution/Clarification/Decision
8	11/18/16	In response to a Central District WWTP NOV of NPDES permit in early 2013, Miami-Dade requested all waste haulers to take their loads to the County's South District WWTP. Thus, hauled waste is no longer being accepted at the Central District WWTP and CD CIP 2.20 Septage Uploading was cancelled. At the November 18, 2016 CD Program Monthly Progress Meeting, this topic was discussed. Brad Ammons mentioned that cancellation of the project may require a material change to CD Appendix D.	On December 28, 2016, the Federal Judge granted a motion to modify Miami-Dade's Capital Work Plan and delete CD CIP 2.20 Septage Uploading at the Central District WWTP.

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 County has identified an area in the County which is zoned business, commercial, and industrial, from light to heavy manufacturing where there currently is no access to sewers, and where septic systems are inadequate or failing and many businesses pre-date the current septic system regulations. Disconnecting the industrial users from septic tanks and connecting them to the sewer system will improve water quality in the aquifer and nearby surface waters, and prevent future contamination. The County will install 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.

In the previous two calendar quarters, WASD's Design Consultant completed Engineering Design of the SEP Consent Decree Project (i.e., CD Project 6.00), consisting of approximately 8,000 linear feet of new gravity sewer main, and submitted the project to Permitting. Also, WASD completed construction of the SEP Phase 1A demonstration project (i.e., CD Project 6.01) involving installation of approximately 600 linear feet of new gravity sewer main. The combined

CD Projects 6.00 and CD 6.01 provide approximately 8,600 total linear feet of new gravity sewer main.

In the next two calendar quarters, WASD will finalize Permitting for the SEP CD Project 6.00, and initiate WASD Procurement. The SEP met the December 6, 2016 CD compliance deadline for completion of Engineering Design, and is on schedule to meet the CD compliance deadline for completion of Construction.

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 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 OOL Program has undertaken an extensive master planning approach to better refine WASD's 2013 Compliance Plan and improve implementation by 2025. Significant coordination and planning was conducted to minimize stranded assets while addressing WASD's projected demands to the year 2035 in a cost-effective manner. The Compliance Plan 2016 Update (July 1, 2016) demonstrated that the adjusted Compliance Plan would meet the schedule and all compliance issues. However, the 2016 update noted that the master planning was still underway, which will be completed by March 2017.

WASD is on schedule to meet its obligations under the OOL. As of December 30, 2016, the conceptual designs for the South District projects are almost complete and the Central District conceptual designs will begin in the next quarter. Final design contracts will be assigned for South District upgrades as soon as possible. Two injection wells at the Central District are under construction and these will be operational by 2018 to meet the nutrient reduction requirements by 2025. Reuse master planning will be completed Fall 2017. Land acquisition for the proposed new western wastewater treatment plant is also proceeding. WASD is committed to meeting all objectives and requirements of the OOL and keeps the public informed of its progress through an active public outreach program.

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.	<ol style="list-style-type: none"> 1. Monitored and tracking the monthly submittal of the Elapsed Time (ET) readings by each Volume Sewer Customer Utility. 2. Placed under Moratorium those pump stations that exceeded the maximum 10 hours pursuant to the Nominal Average Pump Operating Time (NAPOT). 3. Removed from Moratorium status those pump stations for which the utility completed and certified the Remedial Action Plans (RAP) to bring below the 10 hours pursuant to the Nominal Average Pump Operating Time (NAPOT). 4. Completed monthly reports for the Certification of Nominal Average Pump Operating Time (NAPOT) for each Volume Sewer Customer Utility. 5. Sent copies of the Certification of Nominal Average Pump Operating Time (NAPOT) to each Volume Sewer Customer Utility. 6. Upgraded ET system/database to automatically place pump stations with missing ET or duplicate readings under Incomplete Moratorium (IN). 7. Upgraded ET system/database to automatically place pump stations under Incomplete Moratorium (IN) for failure to submit ET readings by the 14th of the following month. 	<ol style="list-style-type: none"> 1. Continue Monitoring and Tracking of monthly ET submittals. 2. Automatic and/or Manual placement in moratorium those pump stations that fail to submit ET readings or submit duplicate readings. 3. Continue generating monthly NAPOT & ALLOCATION reports and copy each corresponding Utility and Building Official, respectively. 4. Develop plan for upgrading ET system/database to capture ET readings for ALL-PUMPS ON and Midnight-5 am hours for all pump stations with 26 HP and larger pumps.

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, 2017.

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	<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>Performed preliminary evaluation of operating conditions for development of design consultant scope of work. In addition, completed draft hydraulic modeling analysis to provide evaluation of impact from proposed modifications, upgrades and expansions to the WCTS. These efforts were performed for the following CD Projects: CD 5.18 (1) PS0441; CD 5.18 (2) PS0491; CD 5.18 (3) PS0710; CD 5.18 (4) PS0827; CD 5.18 (5) PS0852, CD 5.18 (6) PS1236; CD 6.00 SEP.</p> <p>Assisted CD PMCM Construction Managers in development of alternate operation strategies for maintenance of service during construction activities for CD Projects 4.5, 4.8 and 4.10 as well as improvements to PS0187. Reports were developed to document hydraulic modeling analysis for submittal to Miami-Dade, RER-DERM, and FDEP as part of the permit application.</p> <p>Completed update of WCTS Hydraulic Model network geometry to match the current conditions of the system, these updates include latest information: Addition of Private Pump Stations; Update Node and Flood Types; Update Ground Levels; Update Floodable Area; Update Solution Model Type; Update Pump Station Information.</p>	<p>Maintain coordination with Ocean Outfall Legislation Projects for timely updating of projects into hydraulic model.</p> <p>Complete Point of Connection letters for RER permit application for CD Projects 5.18(1), 5.18(2), 5.18(3), 5.18(4), 5.18(5) and 5.18(6) and 6.00 SEP. Provide assistance to CD PMCM Construction Managers in development of alternate operation strategies for maintenance of service during construction activities for CD Projects.</p> <p>Continue efforts associated with collection and processing of SCADA data for pump station inflow calculation for all pump stations through implementation of flow calculation algorithm. In addition, WCTS flow monitoring will be performed based on flow meter manual readings comparison with SCADA data.</p> <p>Continue efforts associated with first stage calibration of WASD WCTS Hydraulic Model which involves the hydraulic parameters of all force mains as well as major gravity lines.</p> <p>Assist WASD IT, Planning Division and CMOM team in the development and implementation of tools and methodologies for WCTS Hydraulic Model and GIS database integration.</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, hydraulic model networks were developed to match WCTS conditions at the time of occurrence of calibration events as defined in calibration plan. Completed efforts associated with collection of required data for calibration of hydraulic model according to Paragraph 18(c)(iv). Some of tasks associated with this objective included: Selection of Calibration Events; Determination of Flows; SCADA data compilation for comparison with model results; Development of RTC for selected calibration events; Development of Flow Monitoring Plan; Complete Model/GIS element crosswalk.</p> <p>Initiated first stage calibration of WASD WCTS Hydraulic Model which involves the hydraulic parameters of all force mains as well as major gravity lines.</p> <p>Continued efforts to update hydraulic model with information available for CD Projects, Ocean Outfall Legislation Projects, Master Plan Projects, Pump Station Improvement Projects 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 Pump Model.</p>	<p>Continue efforts to update hydraulic model with information available for CD Projects, Ocean Outfall Legislation Projects, Master Plan Projects, Pump Station Improvement Projects 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 Pump 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, 2017.</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.	<ol style="list-style-type: none"> 1. Reviewed SSO reports from all VSCs. 2. Placed moratoriums within the PS basin when required by Chapter 24 3. RER-DERM received 2017 Electronic GIS Sanitary Sewer Atlas with As-Built from all VSCs. 4. RER-DERM received Sanitary Sewer Evaluation Surveys from All Utilities. 5. RER-DERM & WASD reviewed/testing Electronic Sanitary Sewer GIS Atlas submitted by VSCs. 	<ol style="list-style-type: none"> 1. SSES Annual Report due March 2017. 2. RER-DERM to complete review of Plan of Compliance for VSCs. 3. RER-DERM to complete review of SSES reports for VSCs 4. RER-DERM & WASD will continue testing the As-Built and Electronic Sanitary Sewer GIS Atlas submitted by VSCs.

Table A-2.1 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
19(a)	Fats, Oils and Grease Control Program	The FOG Control Program is being implemented in accordance with Paragraph 19(a) of the CD. The Program allows the County to regulate industrial and commercial sources of fats, oils and grease (FOG). In addition, this 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 submitted to EPA and FDEP on June 5, 2015. Program is pending EPA and FDEP approval.	<p>RER-DERM submitted revisions to FOG Control Program on December 8, 2016.</p> <p>EPA and FDEP sent out comments on the Program on December 22, 2016. Response to EPA and FDEP Comments on the FOG Control Program were initiated. Work on the program was ongoing:</p> <ol style="list-style-type: none"> 1. Continue to develop/improve the FOG Control Technician Training. 2. Updated the "Did You Know" flyers. Flyers are being distributed by DERM Plan Review, FOG Technicians/Inspectors, and Liquid Waste Transporters. 3. Continued FOG Outreach Program, including workshops: <ol style="list-style-type: none"> a. FOG tent at August & September Adopt-A-Tree events. b. 1st FOG Round Table on September 14, 2016 c. South Florida Plumbing and Mechanical Chief Code & Standards meeting September 21, 2016. d. Utility Round Table October 12, 2016. e. eManifest training for LWT on October 13 & 20, 2016. f. Plumbing Contractors Association General Meeting on October 25, 2016. g. Plumbing and Mechanical Trade Show and Expo booth on November 17, 2016. 4. Receive monthly hauled waste disposal data from Pompano/Broward. 5. Updated FSE FOG Operating Permit (GDO) permit conditions, including eManifest reporting as optional with reduced paperwork - but mandatory starting January 2018. 6. Stated to issue tickets to NGTs. 	<ol style="list-style-type: none"> 1. Impalement FOG1.75 review standards. 2. Update LWT Permit Conditions, including eManifest and NO Commingling. 3. Update FOG Plan Review Tracking form. 4. Impalement upgraded FOG database (PEN) to allow improved GDO tracking. 5. Continue ticketing NGTs. 6. Continue FOG Outreach Program: <ol style="list-style-type: none"> a. 2nd FOG Round Table meeting. b. Design Professional FCD Design Training. c. eManifest Training. 7. Update FOG Control Device Design Guidance (FOG1.75/2.0). 8. Implement no-comingling requirements. 8. Submit updated FOG Control Program & Ordinance to EPA. 9. Initiate process to have Board of County Commissioner approve FOG ordinance after receiving EPA/FDEP approval.

Table A-2.1 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
19(b)	Sewer Overflow Response Plan	<p>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.</p>	<p>The Program document was finalized and submitted to the EPA/FDEP on July 2, 2015 ahead of the CD compliance date July 6, 2015.</p>	<p>Program is pending EPA and FDEP approval. Work on the program will be ongoing and will continue beyond June 30, 2017.</p>

Table A-2.1 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
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.	The Program document was finalized and submitted to the EPA/FDEP on December 4, 2015 ahead of CD compliance date December 7, 2015.	Program is pending EPA and FDEP approval. Work on the program will be ongoing and will continue beyond June 30, 2017.

Table A-2.1 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
19(c)(x)	Geographic Information Systems Program	<p>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>	<p>GIS data entry activities included: Completion of 118 Sewer projects: 31 miles of pipe modified or added; 1336 above ground assets modified or added. Completion of 20 sewer AASIS: 1/2 mile of pipe modified or added; 19 above ground assets modified or added. Sewer Backlog has been completed and new sewer projects are being completed within 90 days of being received by the GIS Maintenance Group. Completion of 821 Water projects: 352 miles of pipe modified or added; 18,936 above ground assets modified or added. Completion of 112 water AASIS: 7 miles of pipe modified or added; 310 above ground assets modified or added. Continued manhole rim elevation and gravity invert elevation data capture project. Continued simplification of the AASIS process to facilitate wider usage. New application is being developed. GIS Training Refresher Program was started. Manual and online videos are currently being developed. GIS to Hydraulic Model Interfaces was started. Electronic As-built Submission analysis for conversion tool was started. Streamlining the manual as-built to GIS process to satisfy the 90 day requirement was started by improving as-built submittal specifications. The Department has published these new specifications and have begun efforts to improve as-built acceptance procedures.</p>	<p>GIS activities will include miles of pipe added, miles of pipe modified, above ground assets added and above ground assets modified in the next two calendar quarters. Finalizing task authorizations for:</p> <ol style="list-style-type: none"> 1. GIS Training Refresher Program. 2. GIS to Hydraulic Model Interface. <p>Continue collecting elevation of manhole rims and pipe inverts and their inclusion into GIS. The following tasks should also begin:</p> <ol style="list-style-type: none"> 1. Streamlining the manual as-built to GIS process to satisfy 90 day requirement 2. GIS to Hydraulic Model Integration to satisfy 90 day requirement from GIS to Model 3. GIS Training Refresher Program 4. Electronic As-Built Submittal

Table A-2.1 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
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.	The Program document was finalized and submitted to the EPA/FDEP on the CD compliance date October 6, 2015.	Program is pending EPA and FDEP approval. Work on the program will be ongoing and will continue beyond June 30, 2017.
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.	Program was pending EPA and FDEP approval. EPA and FDEP sent out comments on the Program on June 21, 2016. Response to EPA and FDEP Comments on the GSSOMP were submitted on August 12, 2016. Work on the program was ongoing.	Program is pending EPA and FDEP approval. Work on the program will be ongoing and will continue beyond June 30, 2017.

Table A-2.1 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
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.	Program was pending EPA and FDEP approval. EPA and FDEP sent out comments on the Program on June 21, 2016. Response to EPA and FDEP Comments on the PSOPMP were submitted on July 29, 2016. Work on the program was ongoing.	Program is pending EPA and FDEP approval. Work on the program will be ongoing and will continue beyond June 30, 2017.
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.	The FMOPMAR Program document was finalized and submitted to the EPA/FDEP on the CD compliance date August 6, 2015. The FMRRP was finalized and submitted to the EPA/FDEP on December 4, 2015 ahead of the CD compliance date December 7, 2015.	Programs are pending EPA and FDEP approval. Work on the programs will be ongoing and will continue beyond June 30, 2017.

Table A-2.1 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
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.	Program was pending EPA and FDEP approval. EPA and FDEP sent out comments on the program August 18, 2016. Response to EPA and FDEP Comments on the WWTP OMP were submitted on November 21, 2016. Work on the program was ongoing.	Program is pending EPA and FDEP approval. Work on the program will be ongoing and will continue beyond June 30, 2017.
19(j)	Financial Analysis Program	The Financial Analysis Program is being implemented in accordance with Paragraph 19(j) of the CD. The purpose of this program is to effectively establish and track the sufficiency of funds for operations and maintenance, capital projects financing, and debt service coverage associated with the Sewer System, including, without limitation, the continued Work pursuant to the CD.	Program was pending EPA and FDEP approval. The County received EPA and FDEP comments on November 25, 2015. Response to EPA and FDEP Comments on the FAP submitted on January 29, 2016. Work on the program was ongoing.	Program is pending EPA and FDEP approval. Work on the program will be ongoing and will continue beyond June 30, 2017.

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 continued.	Procurement and construction will continue.
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.	Permitting continued. Procurement commenced.	Permitting will be completed. Procurement will continue. Construction of new electrical building 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
1.3	Oxygenation Trains	<p>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 (3) for the mixer upgrades.</p>	<p>Design for 1.3(1) structural rehab of Train 4 commenced. Design continued for 1.3(2) Electrical Building Expansion. 1.3(3) Construction of Train 7 Mixer Upgrade completed.</p>	<p>Design for structural rehab of Train 4 will continue. Design for structural rehab of Train 5 will commence. Structural Rehab design will commence for Train 5 and be completed for Train 4. Procurement for 1.3(1) Train 4 Oxygenation tanks structural rehab will commence and be completed. Design for 1.3(2) Electrical Building Expansion will continue. Construction for 1.3(3) Train 4 Mixer Upgrade will commence.</p>

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
1.4	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.	In validation/planning stage.	Design 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 respectively; (3) the electrical equipment associated with pumps 7,8 and 9.	Design, permitting, procurement and construction continued.	Design, permitting, procurement and 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. Permitting and procurement continued.	Permitting and procurement will continue.
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.	Design and permitting continued.	Design will be completed. Permitting will continue. Procurement 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
1.8	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. Design completed. Permitting and procurement continued.	Permitting will be completed and procurement will continue.
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.	Permitting was completed. Procurement commenced	Procurement will be completed. Construction will commence.
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.	In validation/planning stage.	No activities milestone scheduled.
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) SDWWTP General Electrical In-House Construction. 2) Expand Switchgear A & B. 3) Replace Primary Feeders from Elect. Bldg. 1 to Substation 8.	Design continued. Permitting commenced.	Design and permitting will continue. Procurement will commence for 1.11(3)

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.	Design, procurement and construction continued.	Design, procurement and 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
2.1	Electrical Improvements	<p>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:</p> <ol style="list-style-type: none"> 1) CDWWTP General Electric In-house Construction - Substations 1, 2, 7A, 8A, 9A & 10A 2) Substations 3, 4A, 4B, 5 & 6 – This work is part of Project 2.27. 3) Substations 9 & 10 - This work is part of Project 2.10. 4) Substations 11 & 12 – This work is part of project 2.11. 5) Substations 15 & 16 – This work is part of Project 2.15. 6) Substations 17 & 18 – This work is part of Project 2.19. 	<p>Design, permitting, procurement, and construction ongoing Note: The majority of this work will be done in conjunction with other CD projects. Construction of Sub-Stations 1 & 2 Completed on May 5, 2016. Construction of substations 15 & 16 (2.15) will commence.</p>	<p>Design, permitting, procurement and construction will continue. Construction of substations 17 & 18 (2.19) will commence.</p>
2.2	Building Improvements	<p>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 two child projects. 1) Administration building and roofing improvement. 2) Remodeling work that was in the original Consent Decree scope.</p>	<p>Procurement continued. Construction commenced.</p>	<p>Construction will continue.</p>
2.3	Headworks Plant 1	<p>The CDWWTP Headworks/Grit Basin Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing screening facilities at the CDWWTP influent pump station are inefficient. This results in the accumulation of rags and plastics in plant processes which sometimes leads to pump, mixer and clarifier collection mechanism failure. This project involves the addition of influent screens and an electrical room with upgraded electrical instrumentation.</p>	<p>Permitting was completed. Procurement continued. Construction continued.</p>	<p>Construction will continue.</p>

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
2.4	Headworks Plant 2	The CDWWTP Headworks/Grit Basin project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing screening facilities at the CDWWTP influent pump station are inefficient. This results in the accumulation of rags and plastics in plant processes which sometimes leads to pump, mixer and clarifier collection mechanism failure. This project involves the addition of influent screens and an electrical room with upgraded electrical instrumentation.	Permitting was completed. Procurement continued. Construction commenced.	Procurement and Construction will continue.
2.5	Oxygenation Trains Plant 1	The CDWWTP Oxygenation Trains Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. The project involves the retrofitting of the aeration mixers, structural rehabilitation and surface coating application. Mixer retrofits were completed in early 2014.	Engineering design for Train #2 Plant 1 commenced. Procurement for Trains in Plant 1 continued. Construction continued.	Structural rehabilitation work for Train #2 and Train #3 will be performed by WASD in-house forces during the dry seasons. Design and procurement for oxygenation Trains in Plant 1, will continue. Structural rehab of Train #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
2.6	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 and construction continued. Structural Rehab of Train #1 Plant 2 continued. Electrical equipment /expand structure for Trains Plant 2 continued.	Procurement for Oxygenation Trains Plant 2 will continue. Structural rehabilitation for Train #1 Plant 2 will continue. Electrical equipment/ expand Structure for Trains Plant 2 will be completed.
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. 2) Secondary Clarifiers plant 1 Train Mechanisms. 3) Secondary Clarifiers Plant 1 Structural Rehab.	In validation/planning stage.	No activities milestone scheduled.
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.	Design continued. Permitting commenced.	Design will be completed. Permitting 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 2.07.	In validation/planning stage.	Design will commence.

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
2.10	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.	Design, permitting, procurement and construction continued. Construction of RAS Header pipe continued.	Design will be completed. Permitting, procurement and construction will continue. Construction of RAS Header pipe will be completed.
2.11	Effluent Pump Station	The CDWWTP Effluent Pump Station project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to replace the pump in the effluent pump station.	Design continued.	Design will be completed. Permitting will commence.
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.	This project is being performed under design-build delivery method. Design was completed. Permitting and procurement continued.	Permitting will be complete. Procurement will continue.
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.	This project is being performed under design-build delivery method. Design was completed. Permitting and procurement continued.	Permitting will be complete. 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
2.14	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.	In validation/planning stage.	Design will commence.
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 and 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.	Cluster 1: Permitting and procurement were completed. Construction continued. Cluster 2: Design was completed and permitting commenced. Cluster 3: Design continued. Cluster 4: Design continued.	Cluster 1: Construction will continue. Cluster 2: Permitting will be completed and procurement will commence. Cluster 3: Design will continue. Cluster 4: Design and permitting will continue.
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.	Design was completed. Permitting and procurement continued.	Permitting and 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
2.17	Chlorination Facilities	<p>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.</p>	Procurement and construction continued.	Procurement will be completed. Construction will continue.
2.18	Odor Control Systems	<p>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.</p> <p>This project will be completed in conjunction with other related projects. A portion of this project will be performed earlier in coordination with the Headworks projects (2.03/2.04), and the remainder will be performed in coordination with the Dewatering project (2.16).</p>	Permitting and procurement continued. Construction commenced.	Permitting, procurement and construction will continue.
2.19	Co-Gen Facility	<p>The CDWWTP Cogeneration Facility Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. The project involves the installation of two new cogeneration engines, cogeneration building improvements, replacement of biogas pipeline and installation of biogas conditioning system. Thus, this project has been split into two separate "child" projects: 1) Generator Replacement and 2) Biogas Treatment Facilities.</p>	Design was completed. Permitting, procurement, and construction continued. Generator replacement was completed on January 27, 2016.	Permitting and procurement will be completed. 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
2.20	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
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.	Design continued.	Design will be complete. Permitting will commence.
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.	Permitting was completed. Procurement continued.	Construction will commence.
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.	Procurement continued. Construction commenced.	Procurement will be completed. 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
2.25	Ventilation Improvements	<p>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:</p> <ol style="list-style-type: none"> 1) WASH In House HVAC Improvements. 2) Headworks HVAC Improvements (Project 2.03/2.04) 3) Digester Control Building HVAC Improvements (Project 2.15) 4) Pump Station 1 HVAC Improvements (Project 2.21) 5) Pumps Station 2 HVAC Improvements (Project 2.22) 	Design, permitting and procurement continued. Construction commenced.	Design, permitting, procurement and construction will continue.
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 WASH resources. Construction continued.	Construction will continue.
2.27	Oxygen Production	The CDWWTP Oxygen Production project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing units are near the end of useful life and prone to failure. The purpose of this project is to construct a new 80 ton/day oxygen production cryogenic tower and air compression unit to provide full redundancy.	Design continued.	Design will be completed. Permitting and procurement will commence.
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

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
2.29	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.	N/A

Table A-3.3 North District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
3.1	Headworks and Sludge Degritting Transfer	The NDWWTP Headworks and Sludge Degritting and Transfer project is being performed pursuant to Paragraph 19(i) and Appendix D. This project is a 2 Phase approach to improve the existing screening facilities at the NDWWTP. In Phase 1, bar screens are replaced with perforated plate screens and Phase 2 involves the upgrade of the pretreatment buildings for fire code compliance and replacement of primary sludge grit separation equipment.	Construction Phase 1 and Phase 2 continued.	Construction Phase 1 will be completed. Construction Phase 2 will continue.
3.2	Primary Clarifiers and Odor Control	The NDWWTP Primary Clarifiers and Odor Control project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of the structures of the primary clarifiers. It also involves the rehabilitation of the mechanical and odor control systems at the plant.	Design and permitting continued.	Design will be completed. Permitting will continue. Procurement and construction will commence
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.	In validation/planning stage.	No activities milestone scheduled.
3.4	Oxygen Production	The NDWWTP Oxygen Production project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of the structure of the oxygen plant and its mechanical and electrical systems.	Design commenced.	Design will continue.
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 3 child projects: 3.5(1) Replace Mechanisms # 3,6,8; 3.5(2) Remaining Scope of Work; and 3.5(3) Replace Mechanisms #1,2,4,5,7,9,&10.	Design, permitting, procurement and construction continued. Mechanisms #1,2,4,5,7,9,&10 replacement continued.	Design, permitting, procurement and construction will continue. Permitting will commence. Mechanisms #1,2,4,5,7,9,&10 replacement will be completed.

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
3.6	Disinfection	The NDWWTP Disinfection project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of the chlorine gas storage, liquid chlorination and dosing system with bulk sodium hypochlorite storage and dosing system in the existing chlorine building.	Design was completed. Permitting commenced.	Permitting will be completed. Procurement will commence.
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 OO Pump Station rehabilitation was completed in March 2015. Procurement was completed and construction continued.	Construction will continue.
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> <ul style="list-style-type: none"> 1) NDWWTP General Electrical In House Construction Feeders 1 and 2 have been replaced. Feeders 9-14 are related to a new future electrical building and are pending WASD's decision to construct this new building. 2) Electrical Feeders 3-6 Feeders 3-6 will be replaced in conjunction with Project 3.01. 3) Electrical Feeders 7-8 Feeders 7 and 8 will be replaced along with Project 3.04. 	Design, permitting, procurement and construction continued.	Design, permitting, procurement and construction will continue.

Table A-3.3 North District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
3.9	Flood Mitigation	The NDWWTP Flood Mitigation project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to mitigate the flood potential in the Generator and Electrical Building at the NDWWTP.	This project was completed on June 24, 2016.	N/A
3.10	Yard Piping Replacement	The NDWWTP Yard Piping Replacement project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to replace the wastewater piping that interconnects unit processes throughout the plant.	Project was completed on May 24, 2016	N/A
3.11	SCADA RTU Upgrades	The NDWWTP SCADA RTU Upgrades project is being performed pursuant to Paragraph 19(i) and Appendix D. The current radio communication system is obsolete and it is difficult to procure parts. The purpose of the project is to upgrade the SCADA remote telemetry units to maintain operational sustainability.	Project was completed on November 26, 2014 ahead of the CD compliance date March 24, 2015.	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 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.	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
4.4	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 substantially 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. This project has been split into two (2) separate child projects; one which includes the 2.5 miles of 54" pipe rehabilitation and another for required bypasses.	Design and procurement continued. Construction commenced.	Design and procurement will be completed. Construction will continue.
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 substantially completed on May 27, 2014 ahead of the CD compliance date October 29, 2016.	N/A
4.7	Rehabilitation of 18 DIP FM in Miami Lakes	This Miami Lakes Force Main Replacement project is being replaced in accordance with Paragraph 19(i) and Appendix D. The purpose of this project is to replace severely corroded 18-inch pipe that has had multiple failures. It replaces one mile of 18 inch DIP FM located at NW 60 Avenue and NW 138 Street.	Construction was substantially completed on December 7, 2015 ahead of the CD compliance date April 9, 2017.	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
4.8	Rehabilitation of 54 inch PCCP FM in the City of Miami	<p>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.</p> <p>This project has been split into two separate child projects. The first (4.8.1) includes the two miles of PCCP pipe rehabilitation as stipulated in the Consent Decree scope. The second child project (4.8.2) includes the remaining two miles of pipe rehab or replacement necessary to ensure the long term integrity of this force main segment. Both sections will utilize a performance specification delivery method for trenchless technology.</p>	Procurement was completed. Construction commenced.	Construction will be completed
4.9	Replace Approximately 30 miles of AC FM Transmission System	<p>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.</p>	Design, permitting, procurement and construction continued.	Design, permitting, procurement and construction will continue.
4.10	Opa-Locka Airport FM Replacement	<p>The Opa-Locka Airport PCCP Force Main Replacement project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of 2.5 miles of 48" PCCP force main running along the Biscayne Canal between NW 57th Avenue & NW 32nd Avenue. The length has been determined to have approximately one quarter of its line segments distressed based on in-situ condition assessments.</p>	Procurement was completed. 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
1	12	SW 112 Ave. & SW 104 St.	SW 112 Ave. & SW 112 St.	Design commenced	Design will be completed. Permitting will commence.
2	8	NE 14 Ave. & 191 St.	NE 14 Ave. & Miami Gardens Dr.	Construction for this project was completed on October 25, 2016.	N/A
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.	Procurement was completed.	Construction will commence and be completed.
7	10	NW 52 Ct. & NW 190 St.	NW 52 Ave. & NW 189 Ter.	Procurement was completed.	Construction will commence and be completed.
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

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
16	10	PS 427	NW 29 Pl. and NW 191 St.	This project was completed on June 3, 2015.	N/A
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.	Construction commenced.	Construction will be completed.
21	10	NW 42 Pl. & NW 199 Ter.	NW 39 Ct. & NW 199 St.	Construction commenced.	Construction will be completed.
22	6	PS 358	PS 352	Construction commenced.	Construction will be completed.
23	8	PS 1022	PS 1072	Design was completed. Permitting commenced and was completed.	Procurement will commence and be completed. Construction will commence.
24	8	PS 353	NW 48 Ct. & NW 178 Ter.	Construction commenced and was completed on October 27, 2016.	N/A
25	10	NW 52 Ave. & NW 173 Dr.	NW 52 Ave. & NW 178 Ter.	Procurement was completed. Construction commenced.	Construction will be completed.
26	6	PS 354	NW 52 Ave. & NW 173 Dr.	Procurement was completed. Construction commenced.	Construction will be completed.
27	4	Pvt. PS @ SW 149 Ter.	MH 14 @ PS 719	Construction for this project was completed on November 20, 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
28	8	PS 786	MH 5 @ PS 785	In planning/validation stage.	Design will commence and be completed. Permitting will commence.
29	12	PS 811	SW 107 Ave. & SW 76 St.	Permitting continued	Permitting will be completed. Procurement will commence and be completed. Construction will commence.
30	12	PS 811	SW 102 Ave. & SW 81 St.	Permitting continued	Permitting will be completed. Procurement will commence and be completed. Construction will commence.
31	10	PS 812	SW 102 Ave. & SW 84 St.	Permitting continued	Permitting will be completed. Procurement will commence and be completed. Construction will commence.
32	12	SW 107 Ave. & SW 104 St.	SW 107 Ave. & Kendale Blvd.	Procurement was completed.	Construction will commence.
33	4	Pvt. PS @ 114 Ave. & SW 169 St.	MH 59 @ SW 103 Ave.	Construction for this project commenced and was completed on August 12, 2016.	N/A
34	10	PS 709	Homestead Ave. & Kumquat St.	Design continued.	Design will be completed. Permitting will commence.
35	6	SW 110 Ave. & Banyan St.	SW 95 Ave. & SW Banyan St.	Design continued.	Design will be completed. Permitting will commence.
36	4	PS 721	US1 & Banyan St.	Design continued.	Design will be completed. Permitting will commence.

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

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
37	4	PS 749	PS 731	Design continued.	Design will be completed. Permitting will commence.
38	4	PS 747	US1 & East Indigo St.	Design continued.	Design will be completed. Permitting will commence.
39	10	SW 102 Ave. & SW 176 St.	Homestead Ave. & West Jessamine	Design continued.	Design will be completed. Permitting will commence.
40	8	PS 745	SW 102 Ave. & SW 175 St.	Design continued.	Design will be completed. Permitting will commence.
41	4	PS 731	SW Duval Ave. & West Indigo St.	Design continued.	Design will be completed. Permitting will commence.
42	10	SW 102 Ave. & West Jessamine	US1 & SW 184 St.	Design continued.	Design will be completed. Permitting will commence.
43	12	Homestead Ave. & 180 St.	Railroad St. & SW 184 St.	Design continued.	Design will be completed. Permitting will commence.
44	8	PS 810	SW 118 Pl. & SW 72 St.	In planning/validation stage.	Design will commence and be completed. Permitting will commence.
45	12	PS 793	SW 118 Pl. & SW 72 St.	In planning/validation stage.	Design will commence and be completed. Permitting will commence.
46	6	PS 724	SW 106 Ave. & SW 155 St.	Design continued.	Design will be completed. Permitting will commence and be completed. Procurement will commence.
47	8	PS 869	SW 122 Ave. & SW 88 St.	Construction commenced.	Construction will be completed.
48	10	PS 1017	SW 123 Pl. & SW 268 St.	Design continued.	Design will be completed. Permitting will commence.
49	10	PS 1029	SW 132 Ave. & 268 St.	Design continued.	Design will be completed. Permitting will commence.

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

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
50	8	SW 137 Ave. & SW 268 St.	SW 128 Ave. & 268 St.	Design continued.	Design will be completed. Permitting will commence.
51	10	PS 1028	SW 137 Ave. & 288 St.	Design continued.	Design will be completed. Permitting will commence.
52	10	PS 1027	SW 132 Ave. & 280 St.	Design continued.	Design will be completed. Permitting will commence.
53	8	PS 1018	MH 44A @ SW 132 Ave.	Design continued.	Design will be completed. Permitting will commence.
54	12	SW 137 Ave. & SW 72 St.	SW 142 Ave. & SW 72 St.	In planning/validation stage.	Design will commence.
55	12	SW 142 Ave. & SW 72 St.	SW 147 Ave. & SW 72 St.	In planning/validation stage.	Design will commence.
56	8	PS 864	SW 147 Ave. & SW 72 St.	In planning/validation stage.	Design will commence.
57	8	SW 142 Ave. & Kendale Lakes Blvd.	SW 140 Ave. & Kendale Lakes Blvd.	In planning/validation stage.	Design will commence.
58	10	SW 140 Ave. & Kendale Lakes Blvd.	SW 137 Ave. & Kendale Lakes Blvd.	In planning/validation stage.	Design will commence.
59	12	SW 137 Ave. & Kendale Lakes Blvd.	SW 137 Ave. & SW 81 St.	In planning/validation stage.	Design will commence.
60	8	PS 1013	PS 1012	Design commenced.	Design will continue.
61	10	PS 1012	SW 144 Ave. & SW 280 St.	Design commenced.	Design will continue.
62	8	PS 1011	SW 144 Ct. & SW 280 St.	Design commenced.	Design will continue.
63	10	SW 147 Ave. & SW 288 St.	SW 134 Pl. & SW 288 St.	Design continued.	Design will be completed. Permitting will commence.
64	6	PS 1009	SW 147 Ave. & SW 296 St.	In planning/validation stage.	Design will commence and be completed. Permitting will commence.
65	6	PS 1006	PS 1005	Design commenced.	Design will continue.
66	8	PS 1002	SW 152 & SW 304 St.	In planning/validation stage.	Design will commence.

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
5.1	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 continued.	Construction will continue.
5.2	Upgrade of PS No. 0691	The Upgrade of PS No. 0691 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life and capacity increase is required to handle increased Homestead flows. This project involves the replacement of pumping and electrical equipment in PS No. 0691.	Design continued.	Design will be completed. Permitting will commence.
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.	Design was completed. Permitting commenced.	Permitting will be completed. Procurement will commence.
5.4	Replacement of Switchgear PS No. 0414	The Replacement of Switchgear PS No. 0414 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing 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).	Permitting continued. Procurement commenced.	Permitting and procurement will be completed. Construction will commence.

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
5.5	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.	Permitting continued. Procurement commenced.	Permitting and procurement will be completed. Construction will commence.
5.6	Replacement of Switchgear PS No. 0416	The Replacement of Switchgear PS No. 0416 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life. This project involves the replacement of electrical switchgear in PS No. 0416.	Permitting continued. Procurement commenced.	Permitting and procurement will be completed. Construction will commence.
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.	Permitting continued. Procurement commenced.	Permitting and procurement will be completed. Construction will commence.
5.8	Replacement of Electrical and Mechanical Equipment PS No 0107	The Replacement of Electrical and Mechanical Equipment PS No. 0107 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment is beyond of the PS is beyond its useful life and parts are not readily available for the load cell type controllers. This project involves the replacement of pumping and electrical equipment of PS No. 0107.	Procurement was completed. 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
5.9	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 was completed. Procurement commenced.	Procurement will be completed. Construction will commence.
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 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" FM from Kendall Dr. to PS #0536 to eliminate the 42" reduction in the 60" 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.	Design was completed. Permitting and procurement commenced.	Permitting and procurement will be completed. Construction will commence.

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
5.12	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.	Permitting was completed. Procurement continued.	Procurement will be completed. Construction will commence.
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 July 20, 2016.	N/A
5.14	Upgrade of PSs Nos. 0086 and 0492	The Upgrade of Pump Stations No. 0086 and 0492 project was performed and completed pursuant to Paragraph 19(i) and Appendix D. The project was designed to increase reliability and extend the service life of the pump station. The pump stations also exceeded the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. For this project, Pump Station No. 0086 was converted to a submersible type pump station with an existing wet well and the electrical controls and instrumentation were upgraded. The electrical controls and instrumentation for Pump Station No. 0492 were upgraded. It was also rehabilitated to a new submersible type pump station.	PS No. 0086 was completed on July 15, 2013 and PS No. 0492 on April 25, 2013. Both were completed ahead of the CD compliance date December 31, 2013.	N/A

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
5.15	Upgrade of PSs Nos. 0065, 0201, 0334, 0374, 0607	<p>The Upgrade of PSs No. 0065, 0201, 0334, 0374, 0607 project is being performed pursuant to Paragraph 19(i) and Appendix D. The pump stations exceed the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. The PS No. 0065 is being upgraded to include new submersible pumps in the existing dry well, installation of larger suction and discharge piping, and an electrical upgrade. The PS No. 0201 is being upgraded to include new submersible pumps, installation of a new valve box, an electrical upgrade and 48 I/I repairs for a flow of 176 gpm. The PS No. 0334 project involves the conversion to a new submersible type pump station, an electrical upgrade and the installation of 2,200 L.F. of new 8 inch FM. The PS No. 0374 is being upgraded to include new submersible pumps, installation of a new valve box, an electrical upgrade and the installation of 320 L.F. of new 8 inch FM. The PS No. 0607 project involves the conversion to a new submersible type pump station and an electrical upgrade.</p>	<p>This project was completed on December 30, 2015 ahead of the CD compliance date December 31, 2015.</p>	<p>N/A</p>

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
5.16	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.	Procurement was completed. Construction commenced. PS#0198: Construction continued. PS#0437: Construction was completed on December 15, 2016 ahead of CD Compliance date of December 31, 2016. PS#0466: Construction was completed on October 21, 2016 ahead of CD Compliance date of December 31, 2016. PS#0680: Construction was completed on December 1, 2016 ahead of CD Compliance date of December 31, 2016.	PS#0198 Construction will be completed.

Table A-5.1 Sewer Pump Station Systems

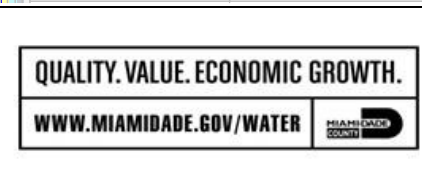
Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
5.17	Upgrade of PSs Nos. 0037, 0351, 0370, 0403	The Upgrade of PSs No. 0037, 0351, 0370, 0403 project is being performed pursuant to Paragraph 19(i) and Appendix D. The pump stations exceed the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. The PS No. 0037 project involves the conversion to a new submersible type pump station and an electrical upgrade. The PS No. 0351 is being upgraded to include new submersible pumps, installation of a new valve box, an electrical upgrade and the replacement of 360 L.F. of 4 inch with 8 inch FM. The PS No. 0370 project involves the conversion to a new submersible type pump station, an electrical upgrade and the installation of 760 L.F. of new 8 inch FM. The PS No. 0403 project involves the conversion to a new submersible type pump station, an electrical upgrade and the installation of an on-site generator.	Design continued. PS#0037: Design was completed. Permitting continued. Procurement commenced. PS#0351: Design was completed. Permitting and procurement commenced. PS#0370: Design was completed. Permitting and procurement commenced. PS#0403: Design was completed. Permitting and procurement commenced.	Permitting and procurement will be completed. Construction will commence. PS#0037: Permitting and procurement will be complete. Construction will commence. PS#0351: Design was completed. Permitting and procurement commenced. PS#0370: Permitting and procurement will be completed. Construction will commence PS#0403: Permitting and procurement will be completed. Construction commenced.

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
5.18	Upgrade of PSs Nos. 0441, 0491, 0710, 0827, 0852, 1236	The Upgrade of PSs No. 0441, 0491, 0710, 0827, 0852, 1236 project is being performed pursuant to Paragraph 19(i) and Appendix D. The pump stations exceed the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. The PS No. 0441 project involves the conversion to a new submersible type pump station and an electrical upgrade. PS No. 0491 is undergoing flow isolation and I/I repairs if necessary. The PS No. 710 project involves the conversion to a new submersible type pump station, an electrical upgrade and the installation of 1,800 L.F. of new 8 inch FM. The PS No. 0827 is being upgraded to include larger submersible pumps, installation of a new valve vault, an electrical upgrade and the replacement of 1,600 L.F. of 4 inch FM with 8 inch FM. The PS No. 0852 project involves the conversion to a new submersible type pump station and an electrical upgrade. PS No. 1236 is undergoing 300 I/I repairs to achieve a flow of 130 gpm.	Design commenced	Design will continue.
5.19	SCADA RTU Upgrades	The SCADA RTU Upgrades project is being performed pursuant to Paragraph 19(i) and Appendix D. The current radio communication system is obsolete and it is difficult to procure parts. The purpose of the project is to upgrade the SCADA remote telemetry units for 635 pump stations to maintain operational sustainability.	Construction was completed on November 23, 2015 ahead of the CD compliance date March 18, 2016.	N/A

Appendix B Project Schedules Gantt Chart

Activity ID	Activity Name	Original Duration	Start	Finish	2016-2024																						
					2016	2017	2018	2019	2020	2021	2022	2023	2024														
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
WASD Consent Decree Schedule - December 2016 Update					6570	12-Dec-10 A	06-Dec-28																				
0. General Compliance Activities					5480	06-Jun-13 A	06-Jun-28																				
Program Milestones					5480	06-Jun-13 A	06-Jun-28																				
General Compliance Activity					5480	06-Jun-13 A	06-Jun-28																				
MC10000	Date of Lodging (DOL)	0	06-Jun-13 A																								
MC10010	Effective Date - 6 months from DOL	0	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					1068	31-Mar-14 A	01-Mar-17																				
Quarterly Reports					1038	31-Mar-14 A	31-Jan-17																				
General Compliance Activity					1038	31-Mar-14 A	31-Jan-17																				
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	31	31-Mar-16 A	30-Apr-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	28-Oct-16 A																							
PM50050	2016 Quarterly Report No 4	32	31-Dec-16*	31-Jan-17																							
Semi Annual Reports					947	30-Jun-14 A	31-Jan-17																				
General Compliance Activity					947	30-Jun-14 A	31-Jan-17																				
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*	31-Jan-17																							
Annual Report					793	31-Dec-14 A	01-Mar-17																				
General Compliance Activity					793	31-Dec-14 A	01-Mar-17																				
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*																							
Program Management/Construction Management Support					3494	06-Jun-14 A	29-Dec-23																				
General Compliance Activity					3494	06-Jun-14 A	29-Dec-23																				
PM50000	Program Management/Construction Management	3494	06-Jun-14 A	29-Dec-23																							
1. South District WWTP					4381	19-Nov-13 A	16-Nov-25																				
1.01 Headworks					1848	02-Feb-15 A	23-Feb-20																				
Engineering Design					449	02-Feb-15 A	26-Apr-16 A																				
SD10100	Engineering Design - SD Headworks	26	02-Feb-15 A	27-Feb-15 A																							
SD42920	EPA Start Date for Engineering Design - SD Headworks	0	01-Oct-15 A																								
SD41910	EPA Compliance Date for Engineering Design - SD Headworks	0		26-Apr-16 A																							
Permitting					815	02-Feb-15 A	26-Apr-17																				
SD10120	Permitting - SD Headworks	26	02-Feb-15 A	27-Feb-15 A																							
SD42930	EPA Start Date for Permitting - SD Headworks	0	27-Apr-16 A																								
SD41920	EPA Compliance Date for Permitting - SD Headworks	0		26-Apr-17*																							
Procurement					1180	02-Feb-15 A	26-Apr-18																				
SD42940	EPA Start Date for Procurement - SD Headworks	0	27-Apr-17*																								
SD10220	Procurement - SD Headworks	1180	02-Feb-15 A	26-Apr-18																							
SD41960	EPA Compliance Date for Procurement - SD Headworks	0		26-Apr-18*																							
Construction					1798	24-Mar-15 A	23-Feb-20																				
SD41510	Rehab Grit #1 (Screens #2) & Grit #2 (Screen #4)	358	24-Mar-15 A	15-Mar-16 A																							
SD42950	EPA Start Date for Construction - SD Headworks	0	27-Apr-18*																								
SD41320	Rehab Grit #1 (Screens #3) & Grit #2 (Screen #3)	181	15-Nov-17*	14-May-18																							
SD41310	Rehab Grit #1 (Screen #4) and Grit #2 (Screen #2)	273	15-Nov-17	14-Aug-18																							
SD41370	Structural Rehab/Coating (Grit #1)	366	15-Nov-17	15-Nov-18																							
SD10300	Construction - SD Headworks	1606	24-Mar-15 A	15-Nov-19																							



MIAMI-DADE WATER & SEWER DEPARTMENT CONSENT DECREE PROGRAM SCHEDULE

Summary (Remaining)	Remaining Work
Summary (Actual)	Critical Rem. Work
Approved EPA Dates	Milestone
Actual Work	WBS Summary

Date	Revision	Check...	Approved
14-Jul-14	Revision 0	GSR	DH
12-Oct-16	September 2016 Update		
14-Nov-16	October 2016 Update		
12-Dec-16	November 2016 Update		
13-Jan-17	December 2016 Update		

Activity ID	Activity Name	Original Duration	Start	Finish	2016-2024																																	
					2016				2017				2018				2019				2020				2021				2022				2023				2024	
					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
SD11222	Pre-Design - SD Dewatering Facilities	72	19-Dec-14 A	28-Feb-15 A	wating Facilities																																	
Engineering Design					23-Nov-16 A, Engineering Design																																	
SD43200	EPA Start Date for Engineering Design - SD Dewatering Facilities**	0	01-Jul-14 A	23-Nov-16 A	gn - SD Dewatering Facilities**																																	
SD42220	EPA Compliance Date for Engineering Design - SD Dewatering Facilities**	0	01-Jul-14 A	23-Nov-16 A	Date for Engineering Design - SD Dewatering Facilities**																																	
SD20000	Basis of Design Report (BODR) - SD Dewatering Facilities	234	13-Apr-15 A	02-Dec-15 A	Basis of Design Report (BODR) - SD Dewatering Facilities																																	
SD10030	Engineering Design (DCP) - SD Dewatering Facilities	467	19-Dec-14 A	29-Mar-16 A	Engineering Design (DCP) - SD Dewatering Facilities																																	
SD41100	Issue Final RDBS - SD Dewatering Facilities	0	29-Mar-16 A	29-Mar-16 A	Issue Final RDBS - SD Dewatering Facilities																																	
SD20020	Design Criteria Package Initial Submittal - SD Dewatering Facilities	146	03-Dec-15 A	26-Apr-16 A	Design Criteria Package Initial Submittal - SD Dewatering Facilities																																	
SD20800	Pilot Testing of Thickening Process - SD Dewatering Facilities	253	21-Aug-15 A	29-Apr-16 A	Pilot Testing of Thickening Process - SD Dewatering Facilities																																	
SD20030	DCP Design Review - SD Dewatering Facilities	25	25-Apr-16 A	19-May-16 A	DCP Design Review - SD Dewatering Facilities																																	
SD20040	Final DCP Submittal - SD Dewatering Facilities	183	20-May-16 A	23-Nov-16 A	Final DCP Submittal - SD Dewatering Facilities																																	
Permitting					10-Sep-18, Permitting																																	
SD43210	EPA Start Date for Permitting - SD Dewatering Facilities	0	14-Apr-15 A	10-Sep-18	or Permitting - SD Dewatering Facilities																																	
SD20070	FDEP Permit - SD Dewatering Facilities	457	29-Jan-16 A	29-Apr-17	FDEP Permit - SD Dewatering Facilities																																	
SD42230	EPA Compliance Date for Permitting - SD Dewatering Facilities	0	26-Dec-17*	10-Sep-18	EPA Compliance Date for Permitting - SD Dewatering Facilities																																	
SD10060	Permitting - SD Dewatering Facilities	929	29-Jan-16 A	10-Sep-18	Permitting - SD Dewatering Facilities																																	
Procurement					27-Jul-17, Procurement																																	
SD31600	RDBS Sent to Procurement - SD Dewatering Facilities	0	29-Mar-16 A	27-Jul-17	RDBS Sent to Procurement - SD Dewatering Facilities																																	
SD43220	EPA Start Date for Procurement - SD Dewatering Facilities	0	13-Apr-16 A	27-Jul-17	EPA Start Date for Procurement - SD Dewatering Facilities																																	
SD31610	Submit/Approve SBD Goals and Request to Advertise - SD Dewatering Facilities	113	29-Mar-16 A	19-Jul-16 A	Submit/Approve SBD Goals and Request to Advertise - SD Dewatering Facilities																																	
SD31620	Advertise RDBS - SD Dewatering Facilities	0	20-Jul-16 A	19-Jul-16 A	Advertise RDBS - SD Dewatering Facilities																																	
SD31630	Request for Qualifications - SD Dewatering Facilities	59	20-Jul-16 A	16-Sep-16 A	Request for Qualifications - SD Dewatering Facilities																																	
SD31640	Qualifications Package Due - SD Dewatering Facilities	0	17-Sep-16 A	16-Sep-16 A	Qualifications Package Due - SD Dewatering Facilities																																	
SD31650	Qualification Review Period - SD Dewatering Facilities	45	17-Sep-16 A	16-Dec-16 A	Qualification Review Period - SD Dewatering Facilities																																	
SD31660	Shortlist Published - SD Dewatering Facilities	0	16-Dec-16 A	16-Dec-16 A	Shortlist Published - SD Dewatering Facilities																																	
SD31670	Request for Proposals - SD Dewatering Facilities	60	16-Jan-17*	16-Mar-17	Request for Proposals - SD Dewatering Facilities																																	
SD31680	Proposals Due - SD Dewatering Facilities	0	17-Mar-17	16-Mar-17	Proposals Due - SD Dewatering Facilities																																	
SD42240	EPA Compliance Date for Procurement - SD Dewatering Facilities	0	12-Apr-17*	16-Mar-17	EPA Compliance Date for Procurement - SD Dewatering Facilities																																	
SD31690	Proposal Review Period - SD Dewatering Facilities	31	17-Mar-17	16-Apr-17	Proposal Review Period - SD Dewatering Facilities																																	
SD31700	Award Recommendation - SD Dewatering Facilities	0	17-Apr-17	16-Apr-17	Award Recommendation - SD Dewatering Facilities																																	
SD31710	Contract Negotiations - SD Dewatering Facilities	72	17-Apr-17	27-Jun-17	Contract Negotiations - SD Dewatering Facilities																																	
SD10110	Procurement - SD Dewatering Facilities	459	29-Mar-16 A	27-Jul-17	Procurement - SD Dewatering Facilities																																	
SD31720	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Dewatering Facilities	30	28-Jun-17	27-Jul-17	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Dewatering Facilities																																	
Design-Build					18-Dec-19, Design-Build																																	
SD43230	EPA Start Date for Construction - SD Dewatering Facilities	0	12-Jun-17*	18-Dec-19	EPA Start Date for Construction - SD Dewatering Facilities																																	
SD31730	Design-Builder NTP - SD Dewatering Facilities	0	12-Jun-17*	27-Jul-17	Design-Builder NTP - SD Dewatering Facilities																																	
SD20010	Final Engineering by Design-Builder - SD Dewatering Facilities	330	28-Jul-17	22-Jun-18	Final Engineering by Design-Builder - SD Dewatering Facilities																																	
SD20080	AHJ Permit Review - SD Dewatering Facilities	180	23-Feb-18	21-Aug-18	AHJ Permit Review - SD Dewatering Facilities																																	
SD10210	Construction - SD Dewatering Facilities	565	04-Mar-18	19-Sep-19	Construction - SD Dewatering Facilities																																	
SD10450	Substantial Completion (CD Compliance Date 11/28/19) - SD Dewatering Facilities	0	19-Sep-19*	19-Sep-19*	Substantial Completion (CD Compliance Date 11/28/19) - SD Dewatering Facilities																																	
SD42250	EPA Compliance Date for Construction - SD Dewatering Facilities	0	28-Nov-19*	19-Sep-19*	EPA Compliance Date for Construction - SD Dewatering Facilities																																	
SD40070	Project Closeout - SD Dewatering Facilities	90	20-Sep-19	18-Dec-19*	Project Closeout - SD Dewatering Facilities																																	
Project Administration					18-Dec-19, Project Administration																																	
SD35090	WASD Project Administration - SD Dewatering Facilities	1684	13-Apr-15 A	18-Dec-19	WASD Project Administration - SD Dewatering Facilities																																	
1.09 FOG Removal Facility					31-May-18, 1.09 FOG Removal Facility																																	
Engineering Design					16-Feb-16 A, Engineering Design																																	
SD43240	EPA Start Date for Engineering Design - SD FOG Removal Facility	0	08-Jul-14 A	16-Feb-16 A	gn - SD FOG Removal Facility																																	
SD20560	Technical Evaluation of Alternatives - SD FOG Removal Facility	252	08-Jul-14 A	16-Mar-15 A	on of Alternatives - SD FOG Removal Facility																																	
SD20570	Negotiate Scope and Cost with MWH - SD FOG Removal Facility	136	19-Dec-14 A	03-May-15 A	e and Cost with MWH - SD FOG Removal Facility																																	
SD20580	Basis of Design Report (BODR) Submittal - SD FOG Removal Facility	79	04-May-15 A	21-Jul-15 A	Design Report (BODR) Submittal - SD FOG Removal Facility																																	
SD20590	BODR Design Review - SD FOG Removal Facility	38	22-Jul-15 A	28-Aug-15 A	Design Review - SD FOG Removal Facility																																	
SD20600	60% Design Submittal - SD FOG Removal Facility	37	01-Sep-15 A	07-Oct-15 A	Design Submittal - SD FOG Removal Facility																																	
SD20610	60% Design Review -SD FOG Removal Facility	15	08-Oct-15 A	22-Oct-15 A	% Design Review -SD FOG Removal Facility																																	
SD20620	100% Design Submittal - SD FOG Removal Facility	62	23-Oct-15 A	23-Dec-15 A	100% Design Submittal - SD FOG Removal Facility																																	
SD10000	Engineering Design - SD FOG Removal Facility	563	08-Jul-14 A	21-Jan-16 A	Engineering Design - SD FOG Removal Facility																																	
SD40170	100% Design Review/Permit Ready Submittal - SD FOG Removal Facility	29	24-Dec-15 A	21-Jan-16 A	100% Design Review/Permit Ready Submittal - SD FOG Removal Facility																																	
SD42260	EPA Compliance Date for Engineering Design - SD FOG Removal Facility	0	16-Feb-16 A	21-Jan-16 A	EPA Compliance Date for Engineering Design - SD FOG Removal Facility																																	
Permitting					28-Oct-16 A, Permitting																																	
SD43250	EPA Start Date for Permitting - SD FOG Removal Facility	0	17-Feb-16 A	28-Oct-16 A	EPA Start Date for Permitting - SD FOG Removal Facility																																	
SD41770	FDEP Permit - SD FOG Removal Facility	241	10-Nov-15 A	07-Jul-16 A	FDEP Permit - SD FOG Removal Facility																																	
SD10020	Permitting - SD FOG Removal Facility	320	10-Nov-15 A	24-Sep-16 A	Permitting - SD FOG Removal Facility																																	
SD41760	RER Bldg Dept. Permit - SD FOG Removal Facility	235	03-Feb-16 A	24-Sep-16 A	RER Bldg Dept. Permit - SD FOG Removal Facility																																	
SD42270	EPA Compliance Date for Permitting - SD FOG Removal Facility	0	28-Oct-16 A	24-Sep-16 A	EPA Compliance Date for Permitting - SD FOG Removal Facility																																	
Procurement					15-May-17, Procurement																																	
SD43260	EPA Start Date for Procurement - SD FOG Removal Facility	0	03-May-15 A	15-May-17	for Procurement - SD FOG Removal Facility																																	
SD30230	Design Documents Sent to Procurement - SD FOG Removal Facility	0	05-Aug-16 A	15-May-17	Design Documents Sent to Procurement - SD FOG Removal Facility																																	
SD30240	Submit/Approve SBD Goals - SD FOG Removal Facility	72	05-Aug-16 A	05-Oct-16 A	Submit/Approve SBD Goals - SD FOG Removal Facility																																	
SD42910	OCI Reviews and Provides List - SD FOG Removal Facility	12	06-Oct-16 A	12-Oct-16 A	OCI Reviews and Provides List - SD FOG Removal Facility																																	

Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					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
Permitting					15-Aug-18, Permitting																																	
SD4330	EPA Start Date for Permitting - SD General Electrical	949	26-Oct-15 A	15-Aug-18	◆ EPA Start Date for Permitting - SD General Electrical																																	
SD42350	EPA Compliance Date for Permitting - SD General Electrical	0	29-May-17*	28-May-18*	◆ EPA Compliance Date for Permitting - SD General Electrical																																	
SD10230	Permitting (Summary) - SD General Electrical	949	26-Oct-15 A	15-Aug-18	◆ Permitting (Summary) - SD General Electrical																																	
Procurement					28-May-19, Procurement																																	
SD43340	EPA Start Date for Procurement - SD General Electrical	710	18-Jun-17	28-May-19	◆ EPA Start Date for Procurement - SD General Electrical																																	
SD10310	Procurement (Summary) - SD General Electrical	694	18-Jun-17	12-May-19	◆ Procurement (Summary) - SD General Electrical																																	
SD42360	EPA Compliance Date for Procurement - SD General Electrical	0	29-May-18*	28-May-19*	◆ EPA Compliance Date for Procurement - SD General Electrical																																	
Construction					08-Jun-21, Construction																																	
SD43350	EPA Start Date for Construction - SD General Electrical	1122	14-May-18	08-Jun-21	◆ EPA Start Date for Construction - SD General Electrical																																	
SD10390	Construction (Summary) - SD General Electrical	1032	14-May-18	10-Mar-21	◆ Construction (Summary) - SD General Electrical																																	
SD10510	Substantial Completion (CD Compliance Date 3/26/21) - SD General Electrical	0		10-Mar-21*	◆ Substantial Completion (CD Compliance Date 3/26/21) - SD General Electrical																																	
SD42370	EPA Compliance Date for Construction - SD General Electrical	0		26-Mar-21*	◆ EPA Compliance Date for Construction - SD General Electrical																																	
SD40100	Project Closeout - SD General Electrical	90	11-Mar-21	08-Jun-21*	◆ Project Closeout - SD General Electrical																																	
Project Administration					08-Jun-21, Project Administration																																	
SD35120	WASD Project Administration - SD General Electric	2460	30-Jun-14 A	08-Jun-21	◆ WASD Project Administration - SD General Electric																																	
1.11 (1) SDWWTP General Electrical Misc. Construction					(1) SDWWTP General Electrical Misc. Construction																																	
Engineering Design					04-Oct-17, Engineering Design																																	
SD40410	Engineering Design - Generator Enclosures & Remote Radiators - SD General Electrical	1367	25-Oct-16 A	26-Oct-20	◆ Engineering Design - Generator Enclosures & Remote Radiators - SD General Electrical																																	
SD40460	Engineering Design - Replace SS 9, 10, 11 & 12 - SD General Electrical	249	25-Oct-16 A	04-Oct-17	◆ Engineering Design - Replace SS 9, 10, 11 & 12 - SD General Electrical																																	
Permitting					02-Apr-18, Permitting																																	
SD40340	Permitting - Generator Enclosures & Remote Radiators - SD General Electrical	325	13-May-17	02-Apr-18	◆ Permitting - Generator Enclosures & Remote Radiators - SD General Electrical																																	
SD40390	Permitting - Replace SS 9, 10, 11 & 12 - SD General Electrical	180	13-May-17	08-Nov-17	◆ Permitting - Replace SS 9, 10, 11 & 12 - SD General Electrical																																	
Procurement					28-Dec-18, Procurement																																	
SD40270	Procurement - Generator Enclosures & Remote Radiators - SD General Electrical	415	09-Nov-17	28-Dec-18	◆ Procurement - Generator Enclosures & Remote Radiators - SD General Electrical																																	
SD40320	Procurement - Replace SS 9, 10, 11 & 12 - SD General Electrical	270	09-Nov-17	05-Aug-18	◆ Procurement - Replace SS 9, 10, 11 & 12 - SD General Electrical																																	
Construction					26-Oct-20, Construction																																	
SD40200	Replace Generator Enclosures & Remote Radiators - SD General Electrical	813	06-Aug-18	26-Oct-20	◆ Replace Generator Enclosures & Remote Radiators - SD General Electrical																																	
SD40260	Replacement of Substations 9, 10, 11 and 12 - SD General Electrical	668	06-Aug-18	03-Jun-20	◆ Replacement of Substations 9, 10, 11 and 12 - SD General Electrical																																	
1.11 (2) Elect. Feeder Bldg 1 to Effluent PS (1-6) (Project 1.05(2))					10-Mar-21, 1.11 (2) Elect. Feeder Bldg 1 to Effluent PS (1-6) (Project 1.05(2))																																	
Engineering Design					16-Feb-18, Engineering Design																																	
SD40440	Engineering Design - Elect. Feeder Bldg 1 to Effluent PS (1-3) (1.05) - SD General Electrical	1458	14-Mar-17	10-Mar-21	◆ Engineering Design - Elect. Feeder Bldg 1 to Effluent PS (1-3) (1.05) - SD General Electrical																																	
SD40450	Engineering Design - Elect. Feeder Bldg 1 to Effluent PS (4-6) (1.05) - SD General Electrical	340	14-Mar-17	16-Feb-18	◆ Engineering Design - Elect. Feeder Bldg 1 to Effluent PS (4-6) (1.05) - SD General Electrical																																	
Permitting					15-Aug-18, Permitting																																	
SD40370	Permitting - Elect. Feeder Bldg 1 to Effluent PS (1-3) (1.05) - SD General Electrical	180	17-Feb-18	15-Aug-18	◆ Permitting - Elect. Feeder Bldg 1 to Effluent PS (1-3) (1.05) - SD General Electrical																																	
SD40380	Permitting - Elect. Feeder Bldg 1 to Effluent PS (4-6) (1.05) - SD General Electrical	180	17-Feb-18	15-Aug-18	◆ Permitting - Elect. Feeder Bldg 1 to Effluent PS (4-6) (1.05) - SD General Electrical																																	
Procurement					12-May-19, Procurement																																	
SD40300	Procurement - Elect. Feeder Bldg 1 to Effluent PS (1-3) (1.05) - SD General Electrical	270	16-Aug-18	12-May-19	◆ Procurement - Elect. Feeder Bldg 1 to Effluent PS (1-3) (1.05) - SD General Electrical																																	
SD40310	Procurement - Elect. Feeder Bldg 1 to Effluent PS (4-6) (1.05) - SD General Electrical	270	16-Aug-18	12-May-19	◆ Procurement - Elect. Feeder Bldg 1 to Effluent PS (4-6) (1.05) - SD General Electrical																																	
Construction					10-Mar-21, Construction																																	
SD40230	Replace 15kV Primary Feeder from Elect. Bldg 1 to Effluent PS Pumps 1-3 (1.05) - SD General Electrical	668	13-May-19	10-Mar-21	◆ Replace 15kV Primary Feeder from Elect. Bldg 1 to Effluent PS Pumps 1-3 (1.05) - SD General Electrical																																	
SD40240	Replace 15kV Primary Feeder from Elect. Bldg 1 to Effluent PS Pumps 4-6 (1.05) - SD General Electrical	668	13-May-19	10-Mar-21	◆ Replace 15kV Primary Feeder from Elect. Bldg 1 to Effluent PS Pumps 4-6 (1.05) - SD General Electrical																																	
1.11 (3) Replace Primary Feeder from Elect. Bldg 1 to Substation 8 (Project 1.07)					09-Jun-20, 1.11 (3) Replace Primary Feeder from Elect. Bldg 1 to Substation 8 (Project 1.07)																																	
Engineering Design					18-May-17, Engineering Design																																	
SD40430	Engineering Design - Elect. Feeder Bldg 1 to SS 8 (1.07) - SD General Electrical	2172	30-Jun-14 A	09-Jun-20	◆ Engineering Design - Elect. Feeder Bldg 1 to SS 8 (1.07) - SD General Electrical																																	
SD40420	Engineering Design - Elect. Feeder Bldg 1 to SS 7 - SD General Electrical	1054	30-Jun-14 A	18-May-17	◆ Engineering Design - Elect. Feeder Bldg 1 to SS 7 - SD General Electrical																																	
Permitting					14-Nov-17, Permitting																																	
SD40360	Permitting - Elect. Feeder Bldg 1 to SS 8 (1.07) - SD General Electrical	751	26-Oct-15 A	14-Nov-17	◆ Permitting - Elect. Feeder Bldg 1 to SS 8 (1.07) - SD General Electrical																																	
SD40350	Permitting - Elect. Feeder Bldg 1 to SS 7 - SD General Electrical	635	26-Oct-15 A	21-Jul-17	◆ Permitting - Elect. Feeder Bldg 1 to SS 7 - SD General Electrical																																	
Procurement					11-Aug-18, Procurement																																	
SD40290	Procurement - Elect. Feeder Bldg 1 to SS 8 (1.07) - SD General Electrical	420	18-Jun-17	11-Aug-18	◆ Procurement - Elect. Feeder Bldg 1 to SS 8 (1.07) - SD General Electrical																																	
SD40280	Procurement - Elect. Feeder Bldg 1 to SS 7 - SD General Electrical	330	18-Jun-17	13-May-18	◆ Procurement - Elect. Feeder Bldg 1 to SS 7 - SD General Electrical																																	
Construction					09-Jun-20, Construction																																	
SD40220	Construction - Elect. Feeder Bldg 1 to SS 8 (1.07) - SD General Electrical	758	14-May-18	09-Jun-20	◆ Construction - Elect. Feeder Bldg 1 to SS 8 (1.07) - SD General Electrical																																	
SD40210	Construction - Elect. Feeder Bldg 1 to SS 7 - SD General Electrical	500	14-May-18	25-Sep-19	◆ Construction - Elect. Feeder Bldg 1 to SS 7 - SD General Electrical																																	
1.12 Chlorine Contact Chamber					18-Jun-21, 1.12 Chlorine Contact Chamber																																	
Engineering Design					16-Aug-19, Engineering Design																																	
SD43360	EPA Start Date for Engineering Design - SD Chlorine Contact Chamber	1416	01-Oct-15 A	16-Aug-19	◆ EPA Start Date for Engineering Design - SD Chlorine Contact Chamber																																	
SD42380	EPA Compliance Date for Engineering Design - SD Chlorine Contact Chamber	0	01-Aug-16 A	08-Apr-17*	◆ EPA Compliance Date for Engineering Design - SD Chlorine Contact Chamber																																	
SD10150	Engineering Design - SD Chlorine Contact Chamber	1416	01-Oct-15 A	16-Aug-19	◆ Engineering Design - SD Chlorine Contact Chamber																																	
Permitting					08-Apr-18, Permitting																																	
SD10200	Permitting - SD Chlorine Contact Chamber	921	01-Oct-15 A	08-Apr-18	◆ Permitting - SD Chlorine Contact Chamber																																	
SD43370	EPA Start Date for Permitting - SD Chlorine Contact Chamber	30	01-Oct-15 A	30-Oct-15 A	◆ EPA Start Date for Permitting - SD Chlorine Contact Chamber																																	
SD42390	EPA Compliance Date for Permitting - SD Chlorine Contact Chamber	0	09-Apr-17*	08-Apr-18*	◆ EPA Compliance Date for Permitting - SD Chlorine Contact Chamber																																	
Procurement					14-Nov-19, Procurement																																	
SD43380	EPA Start Date for Procurement - SD Chlorine Contact Chamber	1544	24-Aug-15 A	14-Nov-19	◆ EPA Start Date for Procurement - SD Chlorine Contact Chamber																																	
SD42400	EPA Compliance Date for Procurement - SD Chlorine Contact Chamber	0	09-Apr-18*	08-Apr-19*	◆ EPA Compliance Date for Procurement - SD Chlorine Contact Chamber																																	
SD10290	Procurement - SD Chlorine Contact Chamber	1544	24-Aug-15 A	14-Nov-19	◆ Procurement - SD Chlorine Contact Chamber																																	
Construction					18-Jun-21, Construction																																	

Table with columns for Activity ID, Activity Name, Original Duration, Start, Finish, and quarterly breakdowns for years 2016 through 2024. The table lists various construction and improvement projects such as 'EPA Start Date for Construction - CD Repairs to Various Buildings', '2.02 (1)a CD Building Improvements - Admin Asbestos Abatement', '2.02 (1)b CD Administration Building Interior Improvements', '2.02 (1)c CD Misc. Roof Improvements', and '2.02 (2) Remodel Bathrooms, Locker Rooms & Showers'.

Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					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
2.04 Headworks/Grit Basin Plant 2					10-Jun-18, 2.04 Headworks/Grit Basin Plant 2																																	
Pre-Design																																						
CD20010	Pre-Design - CD Headworks/Grit Basin Plant 2	123	05-Jun-14 A	05-Oct-14 A	Grit Basin Plant 2																																	
Engineering Design					19-Feb-16 A, Engineering Design																																	
CD82460	EPA Start Date for Engineering Design - CD Headworks/Grit Basin Plant 2	0	01-Sep-14 A		Design - CD Headworks/Grit Basin Plant 2																																	
CD20080	Technical Memo #1 - CD Headworks/Grit Basin Plant 2	0	27-Oct-14 A		Headworks/Grit Basin Plant 2																																	
CD20090	Technical Memo #2 - CD Headworks/Grit Basin Plant 2	0	08-Dec-14 A		Headworks/Grit Basin Plant 2																																	
CD30290	Issue NTP for Final Design - CD Headworks/Grit Basin Plant 2	0	08-Dec-14 A		Report - CD Headworks/Grit Basin Plant 2																																	
CD20070	Basis of Design Report - CD Headworks/Grit Basin Plant 2	185	06-Oct-14 A	08-Apr-15 A	Final Design - CD Headworks/Grit Basin Plant 2																																	
CD20100	Negotiate Final Design - CD Headworks/Grit Basin Plant 2	108	09-Feb-15 A	27-May-15 A	Equipment Pre-Purchase Packages - CD Headworks/Grit Basin Plant 2																																	
CD32530	Develop Equipment Pre-Purchase Packages - CD Headworks/Grit Basin Plant 2	31	17-Jun-15 A	17-Jul-15 A	Design Submittal - CD Headworks/Grit Basin Plant 2																																	
CD21150	60% Design Submittal - CD Headworks/Grit Basin Plant 2	52	17-Jun-15 A	07-Aug-15 A	Design Review - CD Headworks/Grit Basin Plant 2																																	
CD21160	60% Design Review - CD Headworks/Grit Basin Plant 2	12	10-Aug-15 A	21-Aug-15 A	100% Design Submittal - CD Headworks/Grit Basin Plant 2																																	
CD20110	100% Design Submittal - CD Headworks/Grit Basin Plant 2	120	21-Aug-15 A	18-Dec-15 A	Engineering Design - CD Headworks/Grit Basin Plant 2																																	
CD10040	Engineering Design - CD Headworks/Grit Basin Plant 2	480	06-Oct-14 A	28-Jan-16 A	100% Design Review/Permit Ready Submittal - CD Headworks/Grit Basin Plant 2																																	
CD40330	100% Design Review/Permit Ready Submittal - CD Headworks/Grit Basin Plant 2	42	18-Dec-15 A	28-Jan-16 A	EPA Compliance Date for Engineering Design - CD Headworks/Grit Basin Plant 2																																	
CD81850	EPA Compliance Date for Engineering Design - CD Headworks/Grit Basin Plant 2	0		19-Feb-16 A																																		
Permitting					05-Aug-16 A, Permitting																																	
CD82470	EPA Start Date for Permitting - CD Headworks/Grit Basin Plant 2**	0	04-Mar-15 A	05-Aug-16 A	Permitting - CD Headworks/Grit Basin Plant 2**																																	
CD81860	EPA Compliance Date for Permitting - CD Headworks/Grit Basin Plant 2**	0		18-Jun-16 A	EPA Compliance Date for Permitting - CD Headworks/Grit Basin Plant 2**																																	
CD10200	Permitting - CD Headworks/Grit Basin Plant 2	190	29-Jan-16 A	05-Aug-16 A	Permitting - CD Headworks/Grit Basin Plant 2																																	
CD80040	City of Miami Building Permit - CD Headworks/Grit Basin Plant 2	190	29-Jan-16 A	05-Aug-16 A	City of Miami Building Permit - CD Headworks/Grit Basin Plant 2																																	
Procurement					31-Jul-17, Procurement																																	
CD30300	Procurement Contract Modification - CD Headworks/Grit Basin Plant 2	1	17-Jun-15 A	17-Jun-15 A	Contract Modification - CD Headworks/Grit Basin Plant 2																																	
CD31331	Pre-Purchase Bid Package (Screening Equipment) - CD Headworks/Grit Basin Plant 2	70	21-Aug-15 A	29-Oct-15 A	Pre-Purchase Bid Package (Screening Equipment) - CD Headworks/Grit Basin Plant 2																																	
CD31371	Advertise Pre-Purchase Package (Screening Equipment) - CD Headworks/Grit Basin Plant 2	0	30-Oct-15 A		Advertise Pre-Purchase Package (Screening Equipment) - CD Headworks/Grit Basin Plant 2																																	
CD31381	Vendor Bid & Award (Screening Equipment) - CD Headworks/Grit Basin Plant 2	91	30-Oct-15 A	28-Jan-16 A	Vendor Bid & Award (Screening Equipment) - CD Headworks/Grit Basin Plant 2																																	
CD31431	Vendor NTP (Screening Equipment) - CD Headworks/Grit Basin Plant 2	0		29-Jan-16 A	Vendor NTP (Screening Equipment) - CD Headworks/Grit Basin Plant 2																																	
CD82480	EPA Start Date for Procurement - CD Headworks/Grit Basin Plant 2	0	03-Mar-16 A		EPA Start Date for Procurement - CD Headworks/Grit Basin Plant 2																																	
CD30520	Design Documents Sent to Procurement - CD Headworks/Grit Basin Plant 2	0	07-Mar-16 A		Design Documents Sent to Procurement - CD Headworks/Grit Basin Plant 2																																	
CD30530	Submit/Approve SBD Goals and Request to Advertise - CD Headworks/Grit Basin Plant 2	96	28-Mar-16 A	01-Jul-16 A	Submit/Approve SBD Goals and Request to Advertise - CD Headworks/Grit Basin Plant 2																																	
CD30540	Advertise Bid Package - CD Headworks/Grit Basin Plant 2	0	02-Jul-16 A		Advertise Bid Package - CD Headworks/Grit Basin Plant 2																																	
CD30550	Bid Solicitation Period - CD Headworks/Grit Basin Plant 2	17	02-Jul-16 A	18-Jul-16 A	Bid Solicitation Period - CD Headworks/Grit Basin Plant 2																																	
CD30560	Bids Due - CD Headworks/Grit Basin Plant 2	0	19-Jul-16 A		Bids Due - CD Headworks/Grit Basin Plant 2																																	
CD30570	Bid Review Period - CD Headworks/Grit Basin Plant 2	14	19-Jul-16 A	01-Aug-16 A	Bid Review Period - CD Headworks/Grit Basin Plant 2																																	
CD30580	Award Recommendation - CD Headworks/Grit Basin Plant 2	0		01-Aug-16 A	Award Recommendation - CD Headworks/Grit Basin Plant 2																																	
CD30590	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Headworks/Grit Basin Plant 2	7	02-Aug-16 A	08-Aug-16 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Headworks/Grit Basin Plant 2																																	
CD10210	Procurement - CD Headworks/Grit Basin Plant 2	176	07-Mar-16 A	29-Aug-16 A	Procurement - CD Headworks/Grit Basin Plant 2																																	
CD82230	P.O. Issued - CD Headworks/Grit Basin Plant 2	0		29-Aug-16 A	P.O. Issued - CD Headworks/Grit Basin Plant 2																																	
CD31321	Pre-Purchase Bid Package (RTUs) - CD Headworks/Grit Basin Plant 2	60	21-Oct-16 A	17-Nov-16 A	Pre-Purchase Bid Package (RTUs) - CD Headworks/Grit Basin Plant 2																																	
CD31351	Vendor Bid & Award (RTUs) - CD Headworks/Grit Basin Plant 2	45	18-Nov-16 A	01-Mar-17	Vendor Bid & Award (RTUs) - CD Headworks/Grit Basin Plant 2																																	
CD31391	Vendor NTP (RTUs) - CD Headworks/Grit Basin Plant 2	0		01-Mar-17	Vendor NTP (RTUs) - CD Headworks/Grit Basin Plant 2																																	
CD81870	EPA Compliance Date for Procurement - CD Headworks/Grit Basin Plant 2	0		02-Mar-17*	EPA Compliance Date for Procurement - CD Headworks/Grit Basin Plant 2																																	
CD30100	Owner Pre-purchase Screening Equipment - CD Headworks/Grit Basin Plant 2	745	17-Jun-15 A	30-Jun-17	Owner Pre-purchase Screening Equipment - CD Headworks/Grit Basin Plant 2																																	
CD31441	Fabricate & Deliver Screening Equipment - CD Headworks/Grit Basin Plant 2	519	29-Jan-16 A	30-Jun-17	Fabricate & Deliver Screening Equipment - CD Headworks/Grit Basin Plant 2																																	
CD32550	Owner Pre-purchase RTUs - CD Headworks/Grit Basin Plant 2	257	21-Oct-16 A	31-Jul-17	Owner Pre-purchase RTUs - CD Headworks/Grit Basin Plant 2																																	
CD31401	Fabricate & Deliver RTUs - CD Headworks/Grit Basin Plant 2	152	02-Mar-17	31-Jul-17	Fabricate & Deliver RTUs - CD Headworks/Grit Basin Plant 2																																	
Construction					10-Jun-18, Construction																																	
CD40310	Installation of Manhole and Clean out of 84" Pipe - CD Headworks/Grit Basin Plant 2	156	08-Dec-15 A	11-May-16 A	Installation of Manhole and Clean out of 84" Pipe - CD Headworks/Grit Basin Plant 2																																	
CD10448	Contractor Notice to Proceed (NTP) - CD Headworks/Grit Basin Plant 2	0	30-Aug-16 A		Contractor Notice to Proceed (NTP) - CD Headworks/Grit Basin Plant 2																																	
CD82490	EPA Start Date for Construction - CD Headworks/Grit Basin Plant 2	0	03-Mar-17*		EPA Start Date for Construction - CD Headworks/Grit Basin Plant 2																																	
CD40800	Construction (Remaining Scope) - CD Headworks/Grit Basin Plant 2	560	30-Aug-16 A	12-Mar-18	Construction (Remaining Scope) - CD Headworks/Grit Basin Plant 2																																	
CD10450	Construction - CD Headworks/Grit Basin Plant 2	560	30-Aug-16 A	12-Mar-18	Construction - CD Headworks/Grit Basin Plant 2																																	
CD10750	Substantial Completion (CD Compliance Date 5/22/18) - CD Headworks/Grit Basin Plant 2	0		12-Mar-18*	Substantial Completion (CD Compliance Date 5/22/18) - CD Headworks/Grit Basin Plant 2																																	
CD81880	EPA Compliance Date for Construction - CD Headworks/Grit Basin Plant 2	0		22-May-18*	EPA Compliance Date for Construction - CD Headworks/Grit Basin Plant 2																																	
CD40040	Project Closeout - CD Headworks/Grit Basin Plant 2	90	13-Mar-18	10-Jun-18*	Project Closeout - CD Headworks/Grit Basin Plant 2																																	
Project Administration					10-Jun-18, Project Administration																																	
CD33970	WASD Project Administration - CD Headworks/Grit Basin Plant 2	1344	06-Oct-14 A	10-Jun-18	WASD Project Administration - CD Headworks/Grit Basin Plant 2																																	
2.05 Oxygenation Trains Plant 1					28-Jun-18, 2.05 Oxygenation Trains Plant 1																																	
Pre-Design					17-Jun-17, Pre-Design																																	
CD81230	Pre-Design Train #2 - CD Oxygenation Trains Plant 1	150	05-Jul-16 A	16-Jan-17	Pre-Design Train #2 - CD Oxygenation Trains Plant 1																																	
CD81220	Pre-Design Train #3 - CD Oxygenation Trains Plant 1	120	18-Feb-17*	17-Jun-17	Pre-Design Train #3 - CD Oxygenation Trains Plant 1																																	
Engineering Design					16-Aug-17, Engineering Design																																	
CD80260	Engineering Design (Mixers) - CD Oxygenation Trains Plant 1	63	01-Mar-11 A	02-May-11 A	Engineering Design (Mixers) - CD Oxygenation Trains Plant 1																																	
CD80470	EPA Compliance Date for Engineering Design - CD Oxygenation Trains Plant 1**	0		02-Sep-14 A	EPA Compliance Date for Engineering Design - CD Oxygenation Trains Plant 1**																																	
CD81240	Engineering Design (Structural Rehab Train #2) - CD Oxygenation Trains Plant 1	25	17-Jan-17	10-Feb-17	Engineering Design (Structural Rehab Train #2) - CD Oxygenation Trains Plant 1																																	
CD10150	Engineering Design - CD Oxygenation Trains Plant 1	2361	01-Mar-11 A	16-Aug-17	Engineering Design - CD Oxygenation Trains Plant 1																																	

Table with columns for Activity ID, Activity Name, Original Duration, Start, Finish, and quarterly breakdowns for years 2016 through 2024. It lists various project activities across different phases like Procurement, Construction, Project Administration, Engineering Design, Permitting, and Pre-Design.

Activity ID	Activity Name	Original Duration	Start	Finish	2016-2024																																	
					2016				2017				2018				2019				2020				2021				2022				2023				2024	
					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
CD81060	EPA Compliance Date for Construction - CD Digesters Plant 1 Cluster 2	0		19-Jan-26*																																		
Project Administration					15-Aug-22, Project Administration																																	
CD34080	WASD Project Administration - CD Digesters Plant 1 Cluster 2	1534	04-Jun-18	15-Aug-22																																		
2.15 Digesters Plant 2					14-Oct-22, 2.15 Digesters Plant 2																																	
2.15.1 Cluster 1					02-Jul-18, 2.15.1 Cluster 1																																	
Engineering Design					02-Jul-18, 2.15.1 Cluster 1																																	
CD82900	EPA Start Date for Engineering Design - CD Digesters Plant 2 Cluster 1	0	11-Jun-14 A	29-Oct-15 A																																		
CD21750	30% Design and Final BODR Submittal - CD Digesters Plant 2 Cluster 1	314	11-Jun-14 A	20-Apr-15 A																																		
CD21760	30% Design Review - CD Digesters Plant 2 Cluster 1	4	20-Apr-15 A	23-Apr-15 A																																		
CD20130	NTP for Remaining Design - CD Digesters Plant 2 Cluster 1	0	27-Apr-15 A																																			
CD20170	60% Design Submittal - CD Digesters Plant 2 Cluster 1	114	23-Apr-15 A	14-Aug-15 A																																		
CD20180	60% Design Review - CD Digesters Plant 2 Cluster 1	13	14-Aug-15 A	26-Aug-15 A																																		
CD20190	100% Design Submittal - CD Digesters Plant 2 Cluster 1	34	27-Aug-15 A	29-Sep-15 A																																		
CD10030	Engineering Design - CD Digesters Plant 2 Cluster 1	455	01-Jul-14 A	29-Sep-15 A																																		
CD81070	EPA Compliance Date for Engineering Design - CD Digesters Plant 2 Cluster 1	0		29-Oct-15 A																																		
Permitting					24-Aug-16 A, Permitting																																	
CD82910	EPA Start Date for Permitting - CD Digesters Plant 2 Cluster 1**	0	30-Sep-15 A																																			
CD80100	FDEP Permit - CD Digesters Plant 2 Cluster 1	169	30-Sep-15 A	16-Mar-16 A																																		
CD81080	EPA Compliance Date for Permitting - CD Digesters Plant 2 Cluster 1**	0		27-Mar-16 A																																		
CD10110	Permitting - CD Digesters Plant 2 Cluster 1	330	30-Sep-15 A	24-Aug-16 A																																		
CD80110	City of Miami Building Permit - CD Digesters Plant 2 Cluster 1	234	04-Jan-16 A	24-Aug-16 A																																		
Procurement					31-Dec-16, Procurement																																	
CD12171	Owner Pre-Purchase Digester Cover (1) - CD Digesters Plant 2 Cluster 1	222	14-Aug-14 A	23-Mar-15 A																																		
CD82920	EPA Start Date for Procurement - CD Digesters Plant 2 Cluster 1	0	28-Mar-16 A																																			
CD30610	Design Documents Sent to Procurement - CD Digesters Plant 2 Cluster 1	0	15-Apr-16 A																																			
CD30620	Submit/Approve SBD Goals and Request to Advertise - CD Digesters Plant 2 Cluster 1	84	15-Apr-16 A	07-Jul-16 A																																		
CD30630	Advertise Bid Package - CD Digesters Plant 2 Cluster 1	0	08-Jul-16 A																																			
CD30640	Bid Solicitation Period - CD Digesters Plant 2 Cluster 1	46	08-Jul-16 A	22-Aug-16 A																																		
CD30650	Bids Due - CD Digesters Plant 2 Cluster 1	0	23-Aug-16 A																																			
CD30660	Bid Review Period - CD Digesters Plant 2 Cluster 1	49	23-Aug-16 A	19-Oct-16 A																																		
CD30670	Award Recommendation - CD Digesters Plant 2 Cluster 1	0		19-Oct-16 A																																		
CD10120	Procurement - CD Digesters Plant 2 Cluster 1	204	15-Apr-16 A	30-Oct-16 A																																		
CD30680	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Digesters Plant 2 Cluster 1	25	20-Oct-16 A	30-Oct-16 A																																		
CD81090	EPA Compliance Date for Procurement - CD Digesters Plant 2 Cluster 1	0		31-Dec-16*																																		
Construction					02-Jul-18, Construction																																	
CD30260	Construction of Digester Cover (1) - CD Digesters Plant 2 Cluster 1	217	23-Mar-15 A	25-Oct-15 A																																		
CD82930	EPA Start Date for Construction - CD Digesters Plant 2 Cluster 1	0	24-Sep-16 A																																			
CD10378	Contractor Notice to Proceed (NTP) - CD Digesters Plant 2 Cluster 1	0	31-Oct-16 A																																			
CD10380	Construction - CD Digesters Plant 2 Cluster 1	1043	23-Mar-15 A	23-Apr-18																																		
CD40810	Construction (Remaining Scope) - CD Digesters Plant 2 Cluster 1	540	31-Oct-16 A	23-Apr-18																																		
CD10770	Substantial Completion (CD Compliance Date 7/21/22) - CD Digesters Plant 2 Cluster 1	0		23-Apr-18*																																		
CD81100	EPA Compliance Date for Construction - CD Digesters Plant 2 Cluster 1	0		30-Apr-18*																																		
CD40140	Project Closeout - CD Digesters Plant 2 Cluster 1	70	24-Apr-18	02-Jul-18*																																		
Project Administration					02-Jul-18, Project Administration																																	
CD34090	WASD Project Administration - CD Digesters Plant 2 Cluster 1	1418	11-Jun-14 A	02-Jul-18																																		
2.15.2 Cluster 2					21-Jul-22, 2.15.2 Cluster 2																																	
Pre-Design					27-Apr-16 A, Pre-Design																																	
CD12181	Pre-Design - CD Digesters Plant 2 Cluster 2	137	19-Dec-14 A	04-May-15 A																																		
CD41120	Negotiate Scope & Fee for Balance of Design - CD Digesters Plant 2 Cluster 2	167	13-Nov-15 A	27-Apr-16 A																																		
Engineering Design					07-Dec-18, Engineering Design																																	
CD20200	Basis of Design Report (BODR) - CD Digesters Plant 2 Cluster 2	100	05-May-15 A	12-Aug-15 A																																		
CD20210	BODR Review Period - CD Digesters Plant 2 Cluster 2	14	13-Aug-15 A	26-Aug-15 A																																		
CD20260	100% Design Submittal - CD Digesters Plant 2 Cluster 2	52	28-Apr-16 A	18-Jun-16 A																																		
CD10390	Engineering Design - CD Digesters Plant 2 Cluster 2	478	04-May-15 A	23-Aug-16 A																																		
CD40450	100% Design Review/Permit Ready Submittal - CD Digesters Plant 2 Cluster 2	66	19-Jun-16 A	23-Aug-16 A																																		
CD82940	EPA Start Date for Engineering Design - CD Digesters Plant 2 Cluster 2	0		10-Jan-18*																																		
CD81110	EPA Compliance Date for Engineering Design - CD Digesters Plant 2 Cluster 2	0		07-Dec-18*																																		
Permitting					07-Dec-19, Permitting																																	
CD82300	DERM Permit - CD Digesters Plant 2 Cluster 2	21	24-Aug-16 A	13-Sep-16 A																																		
CD10540	Permitting - CD Digesters Plant 2 Cluster 2	111	24-Aug-16 A	17-Feb-17																																		
CD82310	City of Miami Permit - CD Digesters Plant 2 Cluster 2	90	14-Sep-16 A	17-Feb-17																																		
CD82950	EPA Start Date for Permitting - CD Digesters Plant 2 Cluster 2	0		08-Dec-18*																																		
CD81120	EPA Compliance Date for Permitting - CD Digesters Plant 2 Cluster 2	0		07-Dec-19*																																		
Procurement					06-Dec-20, Procurement																																	
CD84070	Internal Bid Package Review - CD Digesters Plant 2 Cluster 2	3	18-Feb-17	20-Feb-17																																		
CD31840	Design Documents Sent to Procurement - CD Digesters Plant 2 Cluster 2	0	21-Feb-17																																			
CD31850	Submit/Approve SBD Goals and Request to Advertise - CD Digesters Plant 2 Cluster 2	60	21-Feb-17	21-Apr-17																																		
CD31860	Advertise Bid Package - CD Digesters Plant 2 Cluster 2	0	22-Apr-17																																			

Activity ID	Activity Name	Original Duration	Start	Finish	2016												2017												2018												2019												2020												2021												2022												2023												2024											
					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	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4																																																								
CD30700	Submit/Approve SBD Goals and Request to Advertise - CD Co-Gen Biogas Treatment Facilities	62	16-Sep-16 A	16-Nov-16 A																																																																																																												
CD30710	Advertise Bid Package - CD Co-Gen Biogas Treatment Facilities	0	17-Nov-16 A																																																																																																													
CD30720	Bid Solicitation Period - CD Co-Gen Biogas Treatment Facilities	45	17-Nov-16 A	12-Jan-17																																																																																																												
CD30730	Bids Due - CD Co-Gen Biogas Treatment Facilities	0	13-Jan-17																																																																																																													
CD30740	Bid Review Period - CD Co-Gen Biogas Treatment Facilities	9	13-Jan-17	21-Jan-17																																																																																																												
CD30750	Award Recommendation - CD Co-Gen Biogas Treatment Facilities	0		21-Jan-17																																																																																																												
CD12121	Procurement - CD Co-Gen Biogas Treatment Facilities	148	16-Sep-16 A	07-Mar-17																																																																																																												
CD30760	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Co-Gen Biogas Treatment Facilities	45	22-Jan-17	07-Mar-17																																																																																																												
Construction					750 08-Mar-17 27-Mar-19																																																																																																											
CD12130	Contractor Notice to Proceed (NTP) - CD Co-Gen Biogas Treatment Facilities	0	08-Mar-17																																																																																																													
CD83530	Complete Switchgear Building Commissioning - CD Co-Gen Biogas Treatment Facilities	0	30-Aug-18																																																																																																													
CD12131	Construction - CD Co-Gen Biogas Treatment Facilities	660	08-Mar-17	27-Dec-18																																																																																																												
CD12141	2.19 (2) Substantial Completion (CD Compliance Date 3/31/19) - CD Co-Gen Biogas Treatment Facilities	0		27-Dec-18*																																																																																																												
CD40210	Project Closeout - CD Co-Gen Biogas Treatment Facilities	90	28-Dec-18	27-Mar-19*																																																																																																												
Project Administration					1368 04-Jun-15 A 27-Mar-19																																																																																																											
CD34170	WASD Project Administration - CD Co-Gen Biogas Treatment Facilities	1368	04-Jun-15 A	27-Mar-19																																																																																																												
2.19 (2)b Co-Gen Restroom and Building Rehab					982 14-Apr-16 A 21-Dec-18																																																																																																											
Engineering Design					189 14-Apr-16 A 31-Oct-16 A																																																																																																											
CD70980	Draft Basis of Design Report (BODR) - CD Co-Gen Restroom and Building Rehab	28	14-Apr-16 A	11-May-16 A																																																																																																												
CD70990	BODR Review Period - CD Co-Gen Restroom and Building Rehab	14	12-May-16 A	25-May-16 A																																																																																																												
CD71040	Final BODR - CD Co-Gen Restroom and Building Rehab	14	26-May-16 A	08-Jun-16 A																																																																																																												
CD71000	60% Design Submittal - CD Co-Gen Restroom and Building Rehab	59	09-Jun-16 A	06-Aug-16 A																																																																																																												
CD71010	60% Design Review - CD Co-Gen Restroom and Building Rehab	14	07-Aug-16 A	20-Aug-16 A																																																																																																												
CD71020	100% Design Submittal - CD Co-Gen Restroom and Building Rehab	26	21-Aug-16 A	15-Sep-16 A																																																																																																												
CD82110	Engineering Design - CD Co-Gen Biogas Treatment Facilities	189	14-Apr-16 A	31-Oct-16 A																																																																																																												
CD71030	100% Design Review/Permit Ready Submittal - CD Co-Gen Restroom and Building Rehab	34	16-Sep-16 A	31-Oct-16 A																																																																																																												
Permitting					182 01-Nov-16 A 02-May-17																																																																																																											
CD71050	RER Permit - CD Co-Gen Restroom and Building Rehab	182	01-Nov-16 A	02-May-17																																																																																																												
CD81960	City of Miami Permit - CD Co-Gen Restroom and Building Rehab	182	01-Nov-16 A	02-May-17																																																																																																												
CD82100	Permitting - CD Co-Gen Biogas Treatment Facilities	182	01-Nov-16 A	02-May-17																																																																																																												
Procurement					108 03-May-17 18-Aug-17																																																																																																											
CD84100	Internal Bid Package Review - CD Co-Gen Restroom and Building Rehab	3	03-May-17	05-May-17																																																																																																												
CD81970	Design Documents Sent to Procurement - CD Co-Gen Restroom and Building Rehab	0	06-May-17																																																																																																													
CD81980	Submit/Approve SBD Goals - CD Co-Gen Restroom and Building Rehab	30	06-May-17	04-Jun-17																																																																																																												
CD82330	OCI Reviews and Provides List - CD Co-Gen Restroom and Building Rehab	5	05-Jun-17	09-Jun-17																																																																																																												
CD81990	Advertise Bid Package - CD Co-Gen Restroom and Building Rehab	0	10-Jun-17																																																																																																													
CD82000	Bid Solicitation Period - CD Co-Gen Restroom and Building Rehab	30	10-Jun-17	09-Jul-17																																																																																																												
CD82010	Bids Due - CD Co-Gen Restroom and Building Rehab	0	10-Jul-17																																																																																																													
CD82020	Bid Review Period - CD Co-Gen Restroom and Building Rehab	5	10-Jul-17	14-Jul-17																																																																																																												
CD82030	Award Recommendation - CD Co-Gen Restroom and Building Rehab	0		14-Jul-17																																																																																																												
CD82040	Procurement - CD Co-Gen Restroom and Building Rehab	105	06-May-17	18-Aug-17																																																																																																												
CD82050	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Co-Gen Restroom and Building Rehab	35	15-Jul-17	18-Aug-17																																																																																																												
Construction					490 19-Aug-17 21-Dec-18																																																																																																											
CD82060	Contractor Notice to Proceed (NTP) - CD Co-Gen Restroom and Building Rehab	0	19-Aug-17																																																																																																													
CD82070	Construction - CD Co-Gen Restroom and Building Rehab	400	19-Aug-17	22-Sep-18																																																																																																												
CD82080	2.19 (2) Substantial Completion (CD Compliance Date 3/31/19) - CD Co-Gen Restroom and Building Rehab	0		22-Sep-18*																																																																																																												
CD82090	Project Closeout - CD Co-Gen Restroom and Building Rehab	90	23-Sep-18	21-Dec-18*																																																																																																												
2.20 Septage Unloading Station					1461 04-Jun-18 03-Jun-22																																																																																																											
Pre-Design					150 04-Jun-18 31-Oct-18																																																																																																											
CD12241	Pre-Design - CD Septage Unloading Station	150	04-Jun-18*	31-Oct-18																																																																																																												
Engineering Design					282 01-Nov-18 09-Aug-19																																																																																																											
CD83220	EPA Start Date for Engineering Design - CD Septage Unloading Station	0	01-Nov-18*																																																																																																													
CD11100	Engineering Design - CD Septage Unloading Station	282	01-Nov-18	09-Aug-19																																																																																																												
CD81550	EPA Compliance Date for Engineering Design - CD Septage Unloading Station	0		09-Aug-19*																																																																																																												
Permitting					365 10-Aug-19 08-Aug-20																																																																																																											
CD83230	EPA Start Date for Permitting - CD Septage Unloading Station	0	10-Aug-19*																																																																																																													
CD11180	Permitting - CD Septage Unloading Station	365	10-Aug-19	08-Aug-20																																																																																																												
CD81560	EPA Compliance Date for Permitting - CD Septage Unloading Station	0		08-Aug-20*																																																																																																												
Procurement					365 09-Aug-20 08-Aug-21																																																																																																											
CD83240	EPA Start Date for Procurement - CD Septage Unloading Station	0	09-Aug-20*																																																																																																													
CD11270	Procurement - CD Septage Unloading Station	365	09-Aug-20	08-Aug-21																																																																																																												
CD81570	EPA Compliance Date for Procurement - CD Septage Unloading Station	0		08-Aug-21*																																																																																																												
Construction					299 09-Aug-21 03-Jun-22																																																																																																											
CD83250	EPA Start Date for Construction - CD Septage Unloading Station	0	09-Aug-21*																																																																																																													
CD11370	Construction - CD Septage Unloading Station	299	09-Aug-21	03-Jun-22																																																																																																												
CD11460	Substantial Completion (CD Compliance Date 6/03/22) - CD Septage Unloading Station	0		03-Jun-22*																																																																																																												
CD81580	EPA Compliance Date for Construction - CD Septage Unloading Station	0		03-Jun-22*																																																																																																												
2.21 Pump Station No.1					1670 16-Jun-15 A 10-Jan-20																																																																																																											

Activity ID	Activity Name	Original Duration	Start	Finish	2016-2024																												
					2016				2017				2018				2019				2020				2021				2022				2023
2.26 Rehabilitation of Walkways and Stairways																																	
Construction																																	
CD83460	EPA Start Date for Construction - CD Rehab of Walkways & Stairways	0	01-Oct-13 A		11-Apr-16 A, Engineering Design																												
CD10070	Construction - CD Rehab of Walkways & Stairways	3741	01-Oct-13 A	28-Dec-23	Engineering Design - Pump Station 2 HVAC Improvements (Project 2.22)																												
CD11710	Substantial Completion (CD Compliance Date 9/27/27) - CD Rehab of Walkways & Stairways	0		28-Dec-23*	Permitting - Pump Station 2 HVAC Improvements (Project 2.22)																												
CD81760	EPA Compliance Date for Construction - CD Rehab of Walkways & Stairways	0		27-Sep-27*	Procurement - Pump Station 2 HVAC Improvements (Project 2.22)																												
Project Administration																																	
CD34230	WASD Project Administration - CD Rehab of Walkways & Stairways	3741	01-Oct-13 A	28-Dec-23	Construction - Pump Station 2 HVAC Improvements (Project 2.22)																												
2.27 Oxygen Production																																	
Engineering Design																																	
CD83470	EPA Start for Engineering Design - CD Oxygen Production	0	01-Jan-15 A		17-Apr-17, Engineering Design																												
CD10320	Engineering Design - CD Oxygen Production	655	16-Apr-15 A	13-Apr-17	Engineering Design - CD Oxygen Production																												
CD81770	EPA Compliance Date for Engineering Design - CD Oxygen Production	0		17-Apr-17*	EPA Compliance Date for Engineering Design - CD Oxygen Production																												
Permitting																																	
CD83480	EPA Compliance Date for Permitting - Site Preparation	0		05-Mar-17*	EPA Compliance Date for Permitting - Site Preparation																												
CD81780	EPA Start Date for Permitting - Site Preparation	0	15-Apr-17*		EPA Start Date for Permitting - Site Preparation																												
CD10550	Permitting - Site Preparation (utilities and demolition)	180	14-Apr-17	10-Oct-17	Permitting - Site Preparation (utilities and demolition)																												
Procurement																																	
CD83490	EPA Start Date for Procurement - Site Preparation	0	06-Mar-17*		EPA Start Date for Procurement - Site Preparation																												
CD81790	EPA Compliance Date for Procurement - CD Oxygen Production & Site Preparation	0		30-Dec-17*	EPA Compliance Date for Procurement - CD Oxygen Production & Site Preparation																												
CD10800	Procurement (Summary) - CD Oxygen Production & Site Preparation	307	06-Jun-17	08-Apr-18	Procurement (Summary) - CD Oxygen Production & Site Preparation																												
Design-Build																																	
CD83500	EPA Start Date for Construction - Site Preparation	0	31-Dec-17*		EPA Start Date for Construction - Site Preparation																												
CD81800	EPA Compliance Date for Construction - CD Oxygen Production & Site Preparation	0		30-Dec-19*	EPA Compliance Date for Construction - CD Oxygen Production & Site Preparation																												
CD11010	Construction (Summary) - CD Oxygen Production & Site Preparation	772	31-Jan-18	12-Mar-20	Construction (Summary) - CD Oxygen Production & Site Preparation																												
2.27 (1) Oxygen Production Site Preparation																																	
Pre-Design																																	
CD70870	Pre-Design - Site Preparation (utilities and demolition)	243	28-Jan-16 A	29-Sep-16 A	29-Sep-16 A, Pre-Design																												
Engineering Design																																	
CD82150	30% Design Submittal - Site Preparation (utilities and demolition)	10	30-Sep-16 A	25-Oct-16 A	30% Design Submittal - Site Preparation (utilities and demolition)																												
CD82160	30% Design Review - Site Preparation (utilities and demolition)	7	26-Oct-16 A	01-Nov-16 A	30% Design Review - Site Preparation (utilities and demolition)																												
CD82170	100% Design Submittal NFC - Site Preparation (utilities and demolition)	60	02-Nov-16 A	01-Mar-17	100% Design Submittal NFC - Site Preparation (utilities and demolition)																												
CD82180	100% Design Review - Site Preparation (utilities and demolition)	15	02-Mar-17	16-Mar-17	100% Design Review - Site Preparation (utilities and demolition)																												
CD70880	Engineering Design - Site Preparation (utilities and demolition)	122	30-Sep-16 A	13-Apr-17	Engineering Design - Site Preparation (utilities and demolition)																												
CD82190	100% Design Submittal Permit Ready - Site Preparation (utilities and demolition)	28	17-Mar-17	13-Apr-17	100% Design Submittal Permit Ready - Site Preparation (utilities and demolition)																												
CD70920	100% Design Submittal Bid Ready - Site Preparation (utilities and demolition)	30	11-Oct-17	09-Nov-17	100% Design Submittal Bid Ready - Site Preparation (utilities and demolition)																												
Permitting																																	
CD33810	DERM Permit - Site Preparation (utilities and demolition)	90	14-Apr-17	12-Jul-17	DERM Permit - Site Preparation (utilities and demolition)																												
CD82240	Permitting - Site Preparation (utilities and demolition)	180	14-Apr-17	10-Oct-17	Permitting - Site Preparation (utilities and demolition)																												
CD70890	COM Permit - Site Preparation (utilities and demolition)	90	13-Jul-17	10-Oct-17	COM Permit - Site Preparation (utilities and demolition)																												
Procurement																																	
CD70900	Procurement - Site Preparation (utilities and demolition)	150	10-Nov-17	08-Apr-18	Procurement - Site Preparation (utilities and demolition)																												
Construction																																	
CD70910	Construction - Site Preparation (utilities and demolition)	195	09-Apr-18	20-Oct-18	Construction - Site Preparation (utilities and demolition)																												
2.27 (2) Oxygen Production Design-Build																																	
Pre-Design																																	
CD12291	Pre-Design - CD Oxygen Production	118	19-Dec-14 A	16-Apr-15 A																													
Engineering Design																																	
CD21640	Basis of Design Report (BODR) - CD Oxygen Production	133	16-Apr-15 A	26-Aug-15 A	02-Jun-17, Engineering Design																												
CD21580	BODR Review Period - CD Oxygen Production	14	27-Aug-15 A	09-Sep-15 A	Basis of Design Report (BODR) - CD Oxygen Production																												
CD30330	Negotiate Phase II Design - CD Oxygen Production	463	27-Jul-15 A	26-Sep-16 A	Negotiate Phase II Design - CD Oxygen Production																												
CD82260	Engineering Design - CD Oxygen Production	655	16-Apr-15 A	03-Mar-17	Engineering Design - CD Oxygen Production																												
CD82210	Issue Final RDBS - CD Oxygen Production	90	27-Sep-16 A	03-Mar-17	Issue Final RDBS - CD Oxygen Production																												
CD82200	Final Basis of Design Report (BODR) and Specs - CD Oxygen Production	120	27-Sep-16 A	14-Apr-17	Final Basis of Design Report (BODR) and Specs - CD Oxygen Production																												
CD33780	Design Criteria Package Initial Submittal - CD Oxygen Production	150	27-Sep-16 A	28-Apr-17	Design Criteria Package Initial Submittal - CD Oxygen Production																												
CD33790	DCP Design Review - CD Oxygen Production	21	29-Apr-17	19-May-17	DCP Design Review - CD Oxygen Production																												
CD33800	Final DCP Submittal - CD Oxygen Production	14	20-May-17	02-Jun-17	Final DCP Submittal - CD Oxygen Production																												
Procurement																																	
CD84120	Internal Bid Package review - CD Oxygen Production	3	03-Jun-17	05-Jun-17	Internal Bid Package review - CD Oxygen Production																												
CD31040	DCP Sent to Procurement - CD Oxygen Production	0	06-Jun-17		DCP Sent to Procurement - CD Oxygen Production																												
CD31050	Submit/Approve SBD Goals and Request to Advertise - CD Oxygen Production	30	06-Jun-17	05-Jul-17	Submit/Approve SBD Goals and Request to Advertise - CD Oxygen Production																												

Activity ID	Activity Name	Original Duration	Start	Finish	2016-2024																													
					2016				2017				2018				2019				2020				2021				2022				2023	
					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
ND20840	Owner Pre-Purchase - Fabricate/Deliver Electrical Equip. - ND Headworks & Sludge Degritting	616	13-Feb-15 A	20-Jan-17	Owner Pre-Purchase - Fabricate/Deliver Electrical Equip. - ND Headworks & Sludge Degritting																													
Construction					Construction																													
ND21360	Contractor NTP - ND Headworks & Sludge Degritting	0	02-Nov-15 A	07-Apr-18	Contractor NTP - ND Headworks & Sludge Degritting																													
ND70820	EPA Start Date for Construction - ND Headworks & Sludge Degritting	0	04-Dec-15 A	31-Dec-16*	EPA Start Date for Construction - ND Headworks & Sludge Degritting																													
ND71230	Milestone #1 - Commissioning of Electrical Annex - ND Headworks & Sludge Degritting	0	02-Nov-15 A	27-Apr-17	Milestone #1 - Commissioning of Electrical Annex - ND Headworks & Sludge Degritting																													
ND10080	Construction Phase 1: Screens - ND Headworks & Sludge Degritting	444	02-Nov-15 A	27-Apr-17	Construction Phase 1: Screens - ND Headworks & Sludge Degritting																													
ND20830	Substantial Completion Phase 1/Milestone #2 (CD Compliance Date 2/28/17) - ND Headworks & Sludge Degritting	0	02-Nov-15 A	28-Sep-17	Substantial Completion Phase 1/Milestone #2 (CD Compliance Date 2/28/17) - ND Headworks & Sludge Degritting																													
ND10170	Construction Phase 2: Building Improvements - ND Headworks & Sludge Degritting	696	02-Nov-15 A	28-Sep-17	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	29-Sep-17	29-Nov-17*	Substantial Completion Phase 2 (CD Compliance Date 4/07/18) - ND Headworks & Sludge Degritting																													
ND40280	Project Closeout - ND Headworks & Sludge Degritting	62	29-Sep-17	07-Apr-18*	Project Closeout - ND Headworks & Sludge Degritting																													
ND70350	EPA Compliance Date for Construction Phase 2: Building Improvements - ND Headworks & Sludge Degritting	0	20-Mar-13 A	29-Nov-17	EPA Compliance Date for Construction Phase 2: Building Improvements - ND Headworks & Sludge Degritting																													
Project Administration					Project Administration																													
ND21500	WASD Project Administration - ND Headworks & Sludge Degritting	1743	20-Mar-13 A	29-Nov-17	WASD Project Administration - ND Headworks & Sludge Degritting																													
3.02 Primary Clarifiers and Odor Control					3.02 Primary Clarifiers and Odor Control																													
Engineering Design					Engineering Design																													
ND70830	EPA Start Date for Engineering Design - ND Primary Clarifiers & Odor Control	0	03-Sep-14 A	09-Mar-17	EPA Start Date for Engineering Design - ND Primary Clarifiers & Odor Control																													
ND10090	Engineering Design - ND Primary Clarifiers & Odor Control	809	03-Sep-14 A	09-Mar-17	Engineering Design - ND Primary Clarifiers & Odor Control																													
ND70360	EPA Compliance Date for Engineering Design - ND Primary Clarifiers & Odor Control	0	26-Oct-15 A	05-Sep-17	EPA Compliance Date for Engineering Design - ND Primary Clarifiers & Odor Control																													
Permitting					Permitting																													
ND70840	EPA Start Date for Permitting - ND Primary Clarifiers & Odor Control	0	10-Mar-17*	02-Jun-18	EPA Start Date for Permitting - ND Primary Clarifiers & Odor Control																													
ND10130	Permitting - ND Primary Clarifiers & Odor Control	571	26-Oct-15 A	05-Sep-17	Permitting - ND Primary Clarifiers & Odor Control																													
ND70370	EPA Compliance Date for Permitting - ND Primary Clarifiers & Odor Control	0	31-Jan-17	02-Jun-18	EPA Compliance Date for Permitting - ND Primary Clarifiers & Odor Control																													
Procurement					Procurement																													
ND70850	EPA Start Date for Procurement - ND Primary Clarifiers & Odor Control	0	06-Sep-17*	18-Apr-21	EPA Start Date for Procurement - ND Primary Clarifiers & Odor Control																													
ND10210	Procurement - ND Primary Clarifiers & Odor Control	461	31-Jan-17	06-May-18	Procurement - ND Primary Clarifiers & Odor Control																													
ND70380	EPA Compliance Date for Procurement - ND Primary Clarifiers & Odor Control	0	01-May-17	18-Apr-21	EPA Compliance Date for Procurement - ND Primary Clarifiers & Odor Control																													
Construction					Construction																													
ND70860	EPA Start Date for Construction - ND Primary Clarifiers & Odor Control	0	03-Jun-18*	14-Jul-18	EPA Start Date for Construction - ND Primary Clarifiers & Odor Control																													
ND71460	Construction - ND Primary Clarifiers & Odor Control	1371	01-May-17	30-Jan-21	Construction - ND Primary Clarifiers & Odor Control																													
ND70390	EPA Compliance Date for Construction - ND Primary Clarifiers & Odor Control	0	01-Dec-16 A	14-Jul-18	EPA Compliance Date for Construction - ND Primary Clarifiers & Odor Control																													
3.02 (1) Replace Primary Clarifiers for Mechanisms #4 & 6					3.02 (1) Replace Primary Clarifiers for Mechanisms #4 & 6																													
Pre-Design					Pre-Design																													
ND71280	Negotiate Scope and Cost of VFI Package (MWH) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	135	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					Engineering Design																													
ND71250	Submit Draft VFI Package - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	4	22-Dec-16 A	13-Jan-17	Submit Draft VFI Package - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																													
ND71260	Review Draft VFI Package - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	8	14-Jan-17	17-Jan-17	Review Draft VFI Package - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																													
ND71470	Engineering Design - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	4	22-Dec-16 A	27-Jan-17	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	27-Jan-17	Submit Final VFI Package - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																													
Procurement					Procurement																													
ND71380	Internal Bid Package Review - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	93	28-Jan-17	30-Apr-17	Internal Bid Package Review - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																													
ND71290	Design Documents Sent to Procurement - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	3	28-Jan-17	30-Jan-17	Design Documents Sent to Procurement - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																													
ND71300	Submit/Approve SBD Goals and Request to Advertise - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	0	31-Jan-17	19-Feb-17	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)	20	20-Feb-17	21-Mar-17	Advertise Bid Package - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																													
ND71320	Bid Solicitation Period - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	0	20-Feb-17	21-Mar-17	Bid Solicitation Period - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																													
ND71330	Bids Due - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	30	22-Mar-17	26-Mar-17	Bids Due - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																													
ND71340	Bid Review Period - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	5	22-Mar-17	26-Mar-17	Bid Review Period - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																													
ND71350	Award Recommendation - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	0	31-Jan-17	30-Apr-17	Award Recommendation - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																													
ND71360	Procurement - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	90	27-Mar-17	30-Apr-17	Procurement - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																													
ND71370	Final Approvals (BCC, Mayor, Risk Mgmt.) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	35	27-Mar-17	30-Apr-17	Final Approvals (BCC, Mayor, Risk Mgmt.) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																													
Construction					Construction																													
ND71500	Contractor Notice to Proceed (NTP) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	440	01-May-17	14-Jul-18	Contractor Notice to Proceed (NTP) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																													
ND71510	Construction - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	0	01-May-17	15-Apr-18	Construction - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																													
ND71520	Substantial Completion (CD Compliance Date 4/18/21) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	350	16-Apr-18	14-Jul-18	Substantial Completion (CD Compliance Date 4/18/21) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																													
ND71530	Project Closeout - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	90	01-May-17	30-Apr-21	Project Closeout - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																													
3.02 (2) Primary Clarifiers and Odor Control (Remaining Scope of Work)					3.02 (2) Primary Clarifiers and Odor Control (Remaining Scope of Work)																													
Pre-Design					Pre-Design																													
ND11375	Pre-Design (MWH) - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	134	25-Mar-15 A	06-Aug-15 A	Pre-Design (MWH) - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																													
Engineering Design					Engineering Design																													
ND20140	Basis of Design Report (B&C) - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	919	03-Sep-14 A	09-Mar-17	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)	330	03-Sep-14 A	29-Jul-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)	127	06-Aug-15 A	10-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)	21	11-Dec-15 A	31-Dec-15 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)	84	01-Jan-16 A	24-Mar-16 A	60% Design Review - 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)	221	05-Apr-16 A	07-Feb-17	100% Design Submittal - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																													
ND71430	Engineering Design - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	0	03-Sep-14 A	09-Mar-17	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)	0	08-Feb-17	09-Mar-17	100% Design Review/Permit Ready Submittal - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																													
Permitting					Permitting																													
ND70280	FDEP Permit - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	681	26-Oct-15 A	10-Dec-15 A	FDEP Permit - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																													

Activity ID	Activity Name	Original Duration	Start	Finish	2016-2024																													
					2016				2017				2018				2019				2020				2021				2022				2023	
					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
ND20640	Pre-Design - ND Oxygen Production	123	25-Jul-17	24-Nov-17	Pre-Design - ND Oxygen Production																													
Engineering Design					1364 25-Mar-17 17-Dec-20																													
ND70760	Technical Memorandum Submittal - ND Oxygen Production	122	25-Mar-17	24-Jul-17	Technical Memorandum Submittal - ND Oxygen Production																													
ND20160	Basis of Design Report (BODR) - ND Oxygen Production	50	25-Nov-17	13-Jan-18	Basis of Design Report (BODR) - ND Oxygen Production																													
ND20170	BODR Review/Re-submittal - ND Oxygen Production	14	14-Jan-18	27-Jan-18	BODR Review/Re-submittal - ND Oxygen Production																													
ND20180	30% Design Submittal - ND Oxygen Production	90	28-Jan-18	27-Apr-18	30% Design Submittal - ND Oxygen Production																													
ND20190	30% Design Review - ND Oxygen Production	14	28-Apr-18	11-May-18	30% Design Review - ND Oxygen Production																													
ND20200	60% Design Submittal - ND Oxygen Production	90	12-May-18	09-Aug-18	60% Design Submittal - ND Oxygen Production																													
ND20210	60% Design Review - ND Oxygen Production	14	10-Aug-18	23-Aug-18	60% Design Review - ND Oxygen Production																													
ND20220	90% Design Submittal - ND Oxygen Production	90	24-Aug-18	21-Nov-18	90% Design Submittal - ND Oxygen Production																													
ND20300	90% Design Review - ND Oxygen Production	14	22-Nov-18	05-Dec-18	90% Design Review - ND Oxygen Production																													
ND20310	100% Design Submittal - ND Oxygen Production	60	06-Dec-18	03-Feb-19	100% Design Submittal - ND Oxygen Production																													
ND10370	Engineering Design - ND Oxygen Production	711	25-Mar-17	05-Mar-19	Engineering Design - ND Oxygen Production																													
ND40480	100% Design Review/Permit Ready - ND Oxygen Production	30	04-Feb-19	05-Mar-19	100% Design Review/Permit Ready - 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																													
ND70440	EPA Compliance Date for Engineering Design - ND Oxygen Production	0		17-Dec-20*	EPA Compliance Date for Engineering Design - ND Oxygen Production																													
Permitting					1018 06-Mar-19 17-Dec-21																													
ND10400	Permitting - ND Oxygen Production	180	06-Mar-19	01-Sep-19	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					1203 02-Sep-19 17-Dec-22																													
ND71400	Internal Bid Package Review - ND Oxygen Production	3	02-Sep-19	04-Sep-19	Internal Bid Package Review - ND Oxygen Production																													
ND21280	Design Documents Sent to Procurement - ND Oxygen Production	0	05-Sep-19		Design Documents Sent to Procurement - ND Oxygen Production																													
ND21290	Submit/Approve SBD Goals and Request to Advertise - ND Oxygen Production	60	05-Sep-19	03-Nov-19	Submit/Approve SBD Goals and Request to Advertise - ND Oxygen Production																													
ND21300	Advertise Bid Package - ND Oxygen Production	0	04-Nov-19		Advertise Bid Package - ND Oxygen Production																													
ND21310	Bid Solicitation Period - ND Oxygen Production	60	04-Nov-19	02-Jan-20	Bid Solicitation Period - ND Oxygen Production																													
ND21320	Bids Due - ND Oxygen Production	0	03-Jan-20		Bids Due - ND Oxygen Production																													
ND21330	Bid Review Period - ND Oxygen Production	30	03-Jan-20	01-Feb-20	Bid Review Period - ND Oxygen Production																													
ND21340	Award Recommendation - ND Oxygen Production	0		01-Feb-20	Award Recommendation - ND Oxygen Production																													
ND10450	Procurement - ND Oxygen Production	270	05-Sep-19	31-May-20	Procurement - ND Oxygen Production																													
ND21350	Final Approvals (B.C, Mayor, Risk Mgmt.) - ND Oxygen Production	120	02-Feb-20	31-May-20	Final Approvals (B.C, 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																													
Construction					1321 01-Jun-20 12-Jan-24																													
ND10488	Contractor Notice to Proceed (NTP) - ND Oxygen Production	0	01-Jun-20		Contractor Notice to Proceed (NTP) - ND Oxygen Production																													
ND10490	Construction - ND Oxygen Production	800	01-Jun-20	09-Aug-22	Construction - ND Oxygen Production																													
ND10500	Substantial Completion (CD Compliance Date 1/12/24) - ND Oxygen Production	0		09-Aug-22*	Substantial Completion (CD Compliance Date 1/12/24) - ND Oxygen Production																													
ND40310	Project Closeout - ND Oxygen Production	90	10-Aug-22	07-Nov-22*	Project Closeout - ND Oxygen Production																													
ND70950	EPA Start Date for Construction - ND Oxygen Production	0	18-Dec-22*		EPA Start Date for Construction - ND Oxygen Production																													
ND70470	EPA Compliance Date for Construction - ND Oxygen Production	0		12-Jan-24*	EPA Compliance Date for Construction - ND Oxygen Production																													
Project Administration					1809 25-Nov-17 07-Nov-22																													
ND21530	WASD Project Administration - ND Oxygen Production	1809	25-Nov-17	07-Nov-22	WASD Project Administration - ND Oxygen Production																													
3.05 Secondary Clarifiers					3591 23-May-14 A 21-Mar-24																													
Engineering Design					2269 28-Aug-14 A 12-Nov-20																													
ND10300	Engineering Design - ND Secondary Clarifiers	897	28-Aug-14 A	09-Feb-17	Engineering Design - ND Secondary Clarifiers																													
ND70960	EPA Start Date for Engineering Design - ND Secondary Clarifiers	0	01-Dec-18*		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					2238 27-Mar-15 A 11-May-21																													
ND10360	Permitting - ND Secondary Clarifiers	894	27-Mar-15 A	05-Sep-17	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					2683 03-Oct-14 A 05-Feb-22																													
ND10410	Procurement - ND Secondary Clarifiers	1339	03-Oct-14 A	05-Jun-18	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					3260 19-Jan-15 A 22-Dec-23																													
ND70990	EPA Start Date for Construction - ND Secondary Clarifiers	0	01-Dec-18*		EPA Start Date for Construction - ND Secondary Clarifiers																													
ND70510	EPA Compliance Date for Construction - ND Secondary Clarifiers	0		06-Feb-22*	EPA Compliance Date for Construction - ND Secondary Clarifiers																													
ND10470	Construction - ND Secondary Clarifiers	3257	19-Jan-15 A	22-Dec-23	Construction - ND Secondary Clarifiers																													
ND10520	Substantial Completion (CD Compliance Date 8/24/27) - ND Secondary Clarifiers	0		22-Dec-23*	Substantial Completion (CD Compliance Date 8/24/27) - ND Secondary Clarifiers																													
3.05 (1) Secondary Clarifiers (Replace Mechanisms #3,6,8)					459 28-Aug-14 A 30-Nov-15 A																													
Engineering Design					141 28-Aug-14 A 16-Jan-15 A																													
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																													
Procurement					105 03-Oct-14 A 16-Jan-15 A																													
ND20050	Procurement - Replace Mechanisms #3, 6 & 8	106	03-Oct-14 A	16-Jan-15 A	Procurement - Replace Mechanisms #3, 6 & 8																													
Construction					315 19-Jan-15 A 30-Nov-15 A																													
ND20060	Construction - Replace Mechanisms #3, 6 & 8	316	19-Jan-15 A	30-Nov-15 A	Construction - Replace Mechanisms #3, 6 & 8																													
3.05 (2) Secondary Clarifiers (Remaining Scope of Work)					3591 23-May-14 A 21-Mar-24																													

Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024			
					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		650	27-Sep-16 A	08-Jul-18																																				
CT35270	Contractor Notice to Proceed (NTP) - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	0	27-Sep-16 A		Contractor Notice to Proceed (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	10-Apr-17	09-Apr-18	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	09-Apr-18*		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	10-Apr-18	08-Jul-18*	Project Closeout - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																																			
Project Administration		1215	12-Mar-15 A	08-Jul-18																																				
CT38380	WASD Project Administration - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	1215	12-Mar-15 A	08-Jul-18	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		2616	28-Aug-12 A	26-Oct-19																																				
Engineering Design		1886	28-Aug-12 A	22-Sep-17																																				
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	1886	28-Aug-12 A	22-Sep-17	Engineering Design - Replace ~30 miles of AC FM Trans System																																			
Permitting		1926	05-Aug-13 A	12-Nov-18																																				
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	1634	05-Aug-13 A	23-Feb-18	Permitting - Replace ~30 miles of AC FM Trans System																																			
CT50850	EPA Compliance Date for Permitting - Replace ~30 miles of AC FM Trans System	0	12-Nov-18*		EPA Compliance Date for Permitting - Replace ~30 miles of AC FM Trans System																																			
Procurement		1943	16-Dec-13 A	11-Apr-19																																				
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**																																			
CT10270	Procurement - Replace ~30 miles of AC FM Trans System	1709	16-Dec-13 A	20-Nov-18	Procurement - Replace ~30 miles of AC FM Trans System																																			
CT50860	EPA Compliance Date for Procurement - Replace ~30 miles of AC FM Trans System	0	11-Apr-19*		EPA Compliance Date for Procurement - Replace ~30 miles of AC FM Trans System																																			
Construction		2004	14-Apr-14 A	08-Oct-19																																				
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	1890	14-Apr-14 A	28-Jul-19	Construction - Replace ~30 miles of AC FM Trans System																																			
CT10420	Substantial Completion (CD Compliance Date 10/08/19) - Replace ~30 miles of AC FM Trans System	0	28-Jul-19*		Substantial Completion (CD Compliance Date 10/08/19) - Replace ~30 miles of AC FM Trans System																																			
CT50880	EPA Compliance Date for Construction - Replace ~30 miles of AC FM Trans System	0	08-Oct-19*		EPA Compliance Date for Construction - Replace ~30 miles of AC FM Trans System																																			
4.09 (1) Replacement of 2,673 LF of 10" ACP FM - SW 112th Ave. from 112th to 104th St.		962	31-Dec-16	19-Aug-19																																				
Pre-Design		29	31-Dec-16	28-Jan-17																																				
CT22260	Pre-Design - 4.09 (1)	29	31-Dec-16*	28-Jan-17	Pre-Design - 4.09 (1)																																			
Engineering Design		119	29-Jan-17	27-May-17																																				
CT12101	Engineering Design - 4.09 (1)	119	29-Jan-17	27-May-17	Engineering Design - 4.09 (1)																																			
Permitting		180	28-May-17	23-Nov-17																																				
CT12111	Permitting - 4.09 (1)	180	28-May-17	23-Nov-17	Permitting - 4.09 (1)																																			
Procurement		270	24-Nov-17	20-Aug-18																																				
CT12121	Procurement - 4.09 (1)	270	24-Nov-17	20-Aug-18	Procurement - 4.09 (1)																																			
Construction		364	21-Aug-18	19-Aug-19																																				
CT12131	Construction - 4.09 (1)	274	21-Aug-18	21-May-19	Construction - 4.09 (1)																																			
CT12141	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (1)	0	21-May-19*		Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (1)																																			
CT40440	Project Closeout - 4.09 (1)	90	22-May-19	19-Aug-19*	Project Closeout - 4.09 (1)																																			
Project Administration		933	29-Jan-17	19-Aug-19																																				
CT38530	WASD Project Administration - 4.09 (1)	933	29-Jan-17	19-Aug-19	WASD Project Administration - 4.09 (1)																																			
4.09 (2) Replacement of 2,403 LF of 12" ACP FM - NE 14th Ave. from PS-0455 to Miami Gardens Dr.		1118	24-Apr-14 A	22-Jan-17																																				
Engineering Design		440	24-Apr-14 A	08-Jul-15 A																																				
CT12151	Engineering Design - 4.09 (2)	441	24-Apr-14 A	08-Jul-15 A	Engineering Design - 4.09 (2)																																			
Permitting		77	09-Jul-15 A	24-Sep-15 A																																				
CT12161	Permitting - 4.09 (2)	78	09-Jul-15 A	24-Sep-15 A	Permitting - 4.09 (2)																																			
Procurement		203	26-Oct-15 A	16-May-16 A																																				
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		274	17-May-16 A	22-Jan-17																																				
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)	274	17-May-16 A	25-Oct-16 A	Construction - 4.09 (2)																																			
CT12191	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (2)	0	25-Oct-16 A		Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (2)																																			
CT40450	Project Closeout - 4.09 (2)	90	25-Oct-16 A	22-Jan-17*	Project Closeout - 4.09 (2)																																			
Project Administration		1118	24-Apr-14 A	22-Jan-17																																				
CT38370	WASD Project Administration - 4.09 (2)	1118	24-Apr-14 A	22-Jan-17	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.		713	28-Aug-12 A	11-Aug-14 A																																				
Engineering Design		339	28-Aug-12 A	02-Aug-13 A																																				
CT12201	Engineering Design - 4.09 (3-5,8)	340	28-Aug-12 A	02-Aug-13 A	Engineering Design - 4.09 (3-5,8)																																			
Permitting		137	05-Aug-13 A	20-Dec-13 A																																				
CT12211	Permitting - 4.09 (3-5,8)	138	05-Aug-13 A	20-Dec-13 A	Permitting - 4.09 (3-5,8)																																			
Procurement		116	16-Dec-13 A	11-Apr-14 A																																				
CT12221	Procurement - 4.09 (3-5,8)	117	16-Dec-13 A	11-Apr-14 A	Procurement - 4.09 (3-5,8)																																			

Activity ID	Activity Name	Original Duration	Start	Finish	2016-2024																																							
					2016				2017				2018				2019				2020				2021				2022				2023				2024							
					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
Construction																																												
CT12231	Construction - 4.09 (3-5,8)	119	14-Apr-14 A	11-Aug-14 A	Construction - 4.09 (3-5,8)																																							
CT12241	Substantial Completion (CD Compliance Date 10/08/19) - 4.9 (3-5,8)	0	14-Apr-14 A	11-Aug-14 A	Compliance Date 10/08/19) - 4.9 (3-5,8)																																							
Project Administration																																												
CT38500	WASD Project Administration - 4.09 (3-5,8)	713	28-Aug-12 A	11-Aug-14 A	WASD Project Administration - 4.09 (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																																												
Pre-Design																																												
CT22270	Pre-Design - 4.09 (6-7)	209	29-Aug-14 A	26-Mar-15 A	Design (6-7)																																							
Engineering Design																																												
CT12251	Engineering Design - 4.09 (6-7)	220	27-Mar-15 A	02-Nov-15 A	Engineering Design - 4.09 (6-7)																																							
Permitting																																												
CT12261	Permitting - 4.09 (6-7)	155	03-Nov-15 A	06-Apr-16 A	Permitting - 4.09 (6-7)																																							
Procurement																																												
CT35280	Design Documents Sent to Procurement - 4.09 (6-7)	168	15-Apr-16 A	29-Sep-16 A	Procurement - 4.09 (6-7)																																							
CT35290	Submit/Approve SBD Goals and Request to Advertise - 4.09 (6-7)	0	15-Apr-16 A	26-Jun-16 A	Submit/Approve SBD Goals and Request to Advertise - 4.09 (6-7)																																							
CT35300	Advertise Bid Package - 4.09 (6-7)	73	27-Jun-16 A	26-Jul-16 A	Advertise Bid Package - 4.09 (6-7)																																							
CT35310	Bid Solicitation Period - 4.09 (6-7)	0	27-Jul-16 A	26-Jul-16 A	Bid Solicitation Period - 4.09 (6-7)																																							
CT35320	Bids Due - 4.09 (6-7)	0	27-Jul-16 A	10-Sep-16 A	Bids Due - 4.09 (6-7)																																							
CT35330	Bid Review Period - 4.09 (6-7)	46	27-Jul-16 A	10-Sep-16 A	Bid Review Period - 4.09 (6-7)																																							
CT35340	Award Recommendation - 4.09 (6-7)	0	10-Sep-16 A	10-Sep-16 A	Award Recommendation - 4.09 (6-7)																																							
CT12271	Procurement - 4.09 (6-7)	168	15-Apr-16 A	29-Sep-16 A	Procurement - 4.09 (6-7)																																							
CT35350	Final Approvals - 4.09 (6-7)	19	11-Sep-16 A	29-Sep-16 A	Final Approvals - 4.09 (6-7)																																							
CT51010	P.O. Issued - 4.09 (6-7)	0	29-Sep-16 A	29-Sep-16 A	P.O. Issued - 4.09 (6-7)																																							
Construction																																												
CT35360	Contractor Notice to Proceed (NTP) - 4.09 (6-7)	140	16-Jan-17	04-Jun-17	Construction - 4.09 (6-7)																																							
CT12281	Construction - 4.09 (6-7)	0	16-Jan-17*	06-Mar-17	Construction - 4.09 (6-7)																																							
CT12291	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (6-7)	50	16-Jan-17	06-Mar-17*	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (6-7)																																							
CT40460	Project Closeout - 4.09 (6-7)	90	07-Mar-17	04-Jun-17*	Project Closeout - 4.09 (6-7)																																							
Project Administration																																												
CT38360	WASD Project Administration - 4.09 (6-7)	885	27-Mar-15 A	04-Jun-17	WASD Project Administration - 4.09 (6-7)																																							
4.09 (9-13) Replacement of 6, 8 and 12" ACP FM Between PS#0385, PS#0374 and NW 119th St./37th Ave.																																												
Engineering Design																																												
CT12301	Engineering Design - 4.09 (9-13)	549	28-Aug-12 A	28-Feb-14 A	Engineering Design - 4.09 (9-13)																																							
Permitting																																												
CT12311	Permitting - 4.09 (9-13)	89	03-Mar-14 A	31-May-14 A	Permitting - 4.09 (9-13)																																							
Procurement																																												
CT12321	Procurement - 4.09 (9-13)	247	01-Jun-14 A	03-Feb-15 A	Procurement - 4.09 (9-13)																																							
Construction																																												
CT12331	Construction - 4.09 (9-13)	184	04-Feb-15 A	07-Aug-15 A	Construction - 4.09 (9-13)																																							
CT12341	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (9-13)	185	04-Feb-15 A	07-Aug-15 A	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (9-13)																																							
Project Administration																																												
CT38490	WASD Project Administration - 4.09 (9-13)	1074	28-Aug-12 A	07-Aug-15 A	WASD Project Administration - 4.09 (9-13)																																							
4.09 (14-19) Replacement of 6, 8 & 10" ACP FM Around PS#0376, 0427, 0375, 0377 and 0368																																												
Engineering Design																																												
CT12351	Engineering Design - 4.09 (14-19)	580	28-Aug-12 A	31-Mar-14 A	Engineering Design - 4.09 (14-19)																																							
Permitting																																												
CT12361	Permitting - 4.09 (14-19)	90	01-Apr-14 A	30-Jun-14 A	Permitting - 4.09 (14-19)																																							
Procurement																																												
CT12371	Procurement - 4.09 (14-19)	229	01-Jul-14 A	15-Feb-15 A	Procurement - 4.09 (14-19)																																							
Construction																																												
CT12381	Construction - 4.09 (14-19)	106	17-Feb-15 A	03-Jun-15 A	Construction - 4.09 (14-19)																																							
CT12391	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (14-19)	107	17-Feb-15 A	03-Jun-15 A	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (14-19)																																							
Project Administration																																												
CT38520	WASD Project Administration - 4.09 (14-19)	1009	28-Aug-12 A	03-Jun-15 A	WASD Project Administration - 4.09 (14-19)																																							
4.09 (20-21) Replace 467LF 8" ACP FM from PS#0366 to NW42ndPI/199thTer.& 1792LF 10"- 39thC/199th St																																												
Pre-Design																																												
CT20030	Pre-Design - 4.9 (20-21)	1089	29-Aug-14 A	01-Aug-17	Pre-Design - 4.9 (20-21)																																							
Engineering Design																																												
CT31001	30% Design Submittal - 4.09 (20-21)	244	29-Aug-14 A	30-Apr-15 A	30% Design Submittal - 4.09 (20-21)																																							
CT31011	60% Design Submittal - 4.09 (20-21)	245	29-Aug-14 A	30-Apr-15 A	60% Design Submittal - 4.09 (20-21)																																							
CT31021	90% Design Submittal - 4.09 (20-21)	152	30-Apr-15 A	29-Sep-15 A	90% Design Submittal - 4.09 (20-21)																																							
CT12401	Engineering Design - 4.09 (20-21)	34	01-May-15 A	03-Jun-15 A	Engineering Design - 4.09 (20-21)																																							
Permitting																																												
CT12411	Permitting - 4.09 (20-21)	28	04-Jun-15 A	01-Jul-15 A	Permitting - 4.09 (20-21)																																							
Procurement																																												
CT35370	100% Design Documents Sent to Procurement - 4.09 (20-21)	22	02-Jul-15 A	23-Jul-15 A	100% Design Documents Sent to Procurement - 4.09 (20-21)																																							
CT35380	Submit/Approve SBD Goals and Request to Advertise - 4.09 (20-21)	152	30-Apr-15 A	29-Sep-15 A	Submit/Approve SBD Goals and Request to Advertise - 4.09 (20-21)																																							
CT35390	Advertise Bid Package - 4.09 (20-21)	83	29-Sep-15 A	21-Dec-15 A	Advertise Bid Package - 4.09 (20-21)																																							
CT35400	Bid Solicitation Period - 4.09 (20-21)	84	29-Sep-15 A	21-Dec-15 A	Bid Solicitation Period - 4.09 (20-21)																																							
Construction																																												
CT35370	100% Design Documents Sent to Procurement - 4.09 (20-21)	170	22-Dec-15 A	09-Jun-16 A	100% Design Documents Sent to Procurement - 4.09 (20-21)																																							
CT35380	Submit/Approve SBD Goals and Request to Advertise - 4.09 (20-21)	0	22-Dec-15 A	06-Mar-16 A	Submit/Approve SBD Goals and Request to Advertise - 4.09 (20-21)																																							
CT35390	Advertise Bid Package - 4.09 (20-21)	76	22-Dec-15 A	06-Mar-16 A	Advertise Bid Package - 4.09 (20-21)																																							
CT35400	Bid Solicitation Period - 4.09 (20-21)	0	07-Mar-16 A	05-Apr-16 A	Bid Solicitation Period - 4.09 (20-21)																																							

Activity ID	Activity Name	Original Duration	Start	Finish	Timeline																																			
					2016				2017				2018				2019				2020				2021				2022				2023				2024			
					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				
CT35410	Bids Due - 4.09 (20-21)	0	06-Apr-16 A		◆ Bids Due - 4.09 (20-21)																																			
CT35420	Bid Review Period - 4.09 (20-21)	23	06-Apr-16 A	28-Apr-16 A	■ Bid Review Period - 4.09 (20-21)																																			
CT35430	Award Recommendation - 4.09 (20-21)	0		28-Apr-16 A	◆ Award Recommendation - 4.09 (20-21)																																			
CT12421	Procurement - 4.09 (20-21)	171	22-Dec-15 A	09-Jun-16 A	Procurement - 4.09 (20-21)																																			
CT35440	Final Approvals - 4.09 (20-21)	43	28-Apr-16 A	09-Jun-16 A	■ Final Approvals - 4.09 (20-21)																																			
CT50960	P.O. Issued - 4.09 (20-21)	0		09-Jun-16 A	◆ P.O. Issued - 4.09 (20-21)																																			
Construction					345																																			
CT35450	Contractor Notice to Proceed (NTP) - 4.09 (20-21)	0	22-Aug-16 A		◆ Contractor Notice to Proceed (NTP) - 4.09 (20-21)																																			
CT12431	Construction - 4.09 (20-21)	275	22-Aug-16 A	03-May-17	Construction - 4.09 (20-21)																																			
CT12441	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (20-21)	0		03-May-17*	◆ Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (20-21)																																			
CT40470	Project Closeout - 4.09 (20-21)	90	04-May-17	01-Aug-17*	■ Project Closeout - 4.09 (20-21)																																			
Project Administration					844																																			
CT38350	WASD Project Administration - 4.09 (20-21)	844	01-May-15 A	01-Aug-17	WASD Project Administration - 4.09 (20-21)																																			
4.09 (22) Replacement of 2,013 LF of 6" ACP FM from PS#358 to PS#0352					1021																																			
Pre-Design					180																																			
CT22280	Pre-Design - 4.09 (22)	181	01-Nov-14 A	30-Apr-15 A	Pre-Design - 4.09 (22)																																			
Engineering Design					87																																			
CT37360	30% Design Submittal - 4.09 (22)	29	01-May-15 A	29-May-15 A	■ 30% Design Submittal - 4.09 (22)																																			
CT37370	60% Design Submittal - 4.09 (22)	26	01-Jun-15 A	26-Jun-15 A	■ 60% Design Submittal - 4.09 (22)																																			
CT37380	90% Design Submittal - 4.09 (22)	29	29-Jun-15 A	27-Jul-15 A	■ 90% Design Submittal - 4.09 (22)																																			
CT12451	Engineering Design - 4.09 (22)	87	01-May-15 A	27-Jul-15 A	■ Engineering Design - 4.09 (22)																																			
Permitting					126																																			
CT12461	Permitting - 4.09 (22)	127	14-Aug-15 A	18-Dec-15 A	■ Permitting - 4.09 (22)																																			
Procurement					154																																			
CT35460	Design Documents Sent to Procurement - 4.09 (22)	0	18-Dec-15 A		■ Design Documents Sent to Procurement - 4.09 (22)																																			
CT35470	Submit/Approve SBD Goals and Request to Advertise - 4.09 (22)	80	18-Dec-15 A	06-Mar-16 A	■ Submit/Approve SBD Goals and Request to Advertise - 4.09 (22)																																			
CT35480	Advertise Bid Package - 4.09 (22)	0	07-Mar-16 A		◆ Advertise Bid Package - 4.09 (22)																																			
CT35490	Bid Solicitation Period - 4.09 (22)	28	07-Mar-16 A	03-Apr-16 A	■ Bid Solicitation Period - 4.09 (22)																																			
CT35500	Bids Due - 4.09 (22)	0	04-Apr-16 A		◆ Bids Due - 4.09 (22)																																			
CT35510	Bid Review Period - 4.09 (22)	7	04-Apr-16 A	10-Apr-16 A	■ Bid Review Period - 4.09 (22)																																			
CT35520	Award Recommendation - 4.09 (22)	0		11-Apr-16 A	◆ Award Recommendation - 4.09 (22)																																			
CT12471	Procurement - 4.09 (22)	155	18-Dec-15 A	20-May-16 A	Procurement - 4.09 (22)																																			
CT35530	Final Approvals - 4.09 (22)	39	12-Apr-16 A	20-May-16 A	■ Final Approvals - 4.09 (22)																																			
CT50970	P.O. Issued - 4.09 (22)	0		20-May-16 A	◆ P.O. Issued - 4.09 (22)																																			
Construction					229																																			
CT35540	Contractor Notice to Proceed (NTP) - 4.09 (22)	0	03-Oct-16 A	30-May-17	◆ Contractor Notice to Proceed (NTP) - 4.09 (22)																																			
CT12481	Construction - 4.09 (22)	229	03-Oct-16 A	01-Mar-17	Construction - 4.09 (22)																																			
CT12491	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (22)	0		01-Mar-17*	◆ Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (22)																																			
CT40480	Project Closeout - 4.09 (22)	90	02-Mar-17	30-May-17*	■ Project Closeout - 4.09 (22)																																			
Project Administration					840																																			
CT38340	WASD Project Administration - 4.09 (22)	840	01-May-15 A	30-May-17	WASD Project Administration - 4.09 (22)																																			
4.09 (23) Replacment of 1857 LF of 8" ACP FM from PS#1022 to SW 352nd St & 286LF Along 187 Ave.					1242																																			
Pre-Design					194																																			
CT22290	Pre-Design - 4.09 (23)	195	03-Jun-15 A	14-Dec-15 A	Pre-Design - 4.09 (23)																																			
Engineering Design					226																																			
CT35001	30% Design Submittal - 4.09 (23)	71	17-Dec-15 A	25-Feb-16 A	■ 30% Design Submittal - 4.09 (23)																																			
CT35011	60% Design Submittal - 4.09 (23)	30	25-Feb-16 A	25-Mar-16 A	■ 60% Design Submittal - 4.09 (23)																																			
CT12501	Engineering Design - 4.09 (23)	137	14-Dec-15 A	28-Apr-16 A	■ Engineering Design - 4.09 (23)																																			
CT35021	90% Design Submittal - 4.09 (23)	34	26-Mar-16 A	28-Apr-16 A	■ 90% Design Submittal - 4.09 (23)																																			
CT50310	90% Design Review - 4.09 (23)	8	29-Apr-16 A	06-May-16 A	■ 90% Design Review - 4.09 (23)																																			
CT50540	100% Design Submittal Permit Ready - 4.09 (23)	82	07-May-16 A	27-Jul-16 A	■ 100% Design Submittal Permit Ready - 4.09 (23)																																			
Permitting					104																																			
CT50230	Public Works Permit - 4.09 (23)	104	28-Jul-16 A	27-Oct-16 A	■ Public Works Permit - 4.09 (23)																																			
CT12511	Permitting - 4.09 (23)	104	28-Jul-16 A	28-Oct-16 A	■ Permitting - 4.09 (23)																																			
CT50220	RER DERM Permit - 4.09 (23)	104	28-Jul-16 A	28-Oct-16 A	■ RER DERM Permit - 4.09 (23)																																			
Procurement					169																																			
CT35550	Design Documents Sent to Procurement - 4.09 (23)	0	06-Jan-17*		■ Design Documents Sent to Procurement - 4.09 (23)																																			
CT35560	Submit/Approve SBD Goals and Request to Advertise - 4.09 (23)	60	06-Jan-17	06-Mar-17	■ Submit/Approve SBD Goals and Request to Advertise - 4.09 (23)																																			
CT35570	Advertise Bid Package - 4.09 (23)	0	10-Apr-17		◆ Advertise Bid Package - 4.09 (23)																																			
CT35580	Bid Solicitation Period - 4.09 (23)	30	10-Apr-17	09-May-17	■ Bid Solicitation Period - 4.09 (23)																																			
CT35590	Bids Due - 4.09 (23)	0	10-May-17		◆ Bids Due - 4.09 (23)																																			
CT35600	Bid Review Period - 4.09 (23)	15	10-May-17	24-May-17	■ Bid Review Period - 4.09 (23)																																			
CT35610	Award Recommendation - 4.09 (23)	0		24-May-17	◆ Award Recommendation - 4.09 (23)																																			
CT12521	Procurement - 4.09 (23)	169	06-Jan-17	23-Jun-17	Procurement - 4.09 (23)																																			
CT35620	Final Approvals - 4.09 (23)	30	25-May-17	23-Jun-17	■ Final Approvals - 4.09 (23)																																			
Construction					490																																			
CT35630	Contractor Notice to Proceed (NTP) - 4.09 (23)	0	24-Jun-17		◆ Contractor Notice to Proceed (NTP) - 4.09 (23)																																			
CT12531	Construction - 4.09 (23)	400	24-Jun-17	28-Jul-18	Construction - 4.09 (23)																																			

Activity ID	Activity Name	Original Duration	Start	Finish	2016			2017			2018			2019			2020			2021			2022			2023		2024				
					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		
CT37090	Submit/Approve SBD Goals and Request to Advertise - 4.09 (69)	48	19-Jan-16 A	06-Mar-16 A																												
CT37100	Advertise Bid Package - 4.09 (69)	0	07-Mar-16 A		◆ Advertise Bid Package - 4.09 (69)																											
CT37110	Bid Solicitation Period - 4.09 (69)	30	07-Mar-16 A	05-Apr-16 A	■ Bid Solicitation Period - 4.09 (69)																											
CT37120	Bids Due - 4.09 (69)	0	06-Apr-16 A		◆ Bids Due - 4.09 (69)																											
CT37130	Bid Review Period - 4.09 (69)	6	06-Apr-16 A	11-Apr-16 A	■ Bid Review Period - 4.09 (69)																											
CT37140	Award Recommendation - 4.09 (69)	0		11-Apr-16 A	◆ Award Recommendation - 4.09 (69)																											
CT13971	Procurement - 4.09 (69)	122	19-Jan-16 A	19-May-16 A	Procurement - 4.09 (69)																											
CT37150	Final Approvals - 4.09 (69)	38	12-Apr-16 A	19-May-16 A	■ Final Approvals - 4.09 (69)																											
Construction					18-Jul-16 A, Construction																											
CT37160	Contractor Notice to Proceed (NTP) - 4.09 (69)	0	18-Jul-16 A		◆ Contractor Notice to Proceed (NTP) - 4.09 (69)																											
CT13981	Construction - 4.09 (69)	304	18-Jul-16 A	27-Oct-16 A	Construction - 4.09 (69)																											
CT13991	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (69)	0		27-Oct-16 A	◆ Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (69)																											
CT40700	Project Closeout - 4.09 (69)	90	28-Oct-16 A	25-Jan-17*	■ Project Closeout - 4.09 (69)																											
Project Administration					25-Jan-17, Project Administration																											
CT38150	WASD Project Administration - 4.09 (69)	838	01-May-15 A	25-Jan-17	WASD Project Administration - 4.09 (69)																											
4.09 (70) Replace 8000LF of 10" ACP FM at US-1 from SW 184th St. to North of Caribbean Blvd					05-Jan-19, 4.09 (70) Replace 8000LF of 10" ACP FM at US-1 from SW 184th St. to North of Caribbean Blvd																											
Pre-Design					Oct-15 A, Pre-Design																											
CT20000	Pre-Design - 4.09 (70)	44	13-Sep-14 A	26-Oct-14 A	Pre-Design - 4.09 (70)																											
CT33000	Pre-Design (Revised Project Scope) - 4.09 (70)	119	29-Jun-15 A	25-Oct-15 A	Pre-Design (Revised Project Scope) - 4.09 (70)																											
Engineering Design					15-Jan-17, Engineering Design																											
CT14001	Engineering Design (Original Project Scope) - 4.09 (70)	245	27-Oct-14 A	28-Jun-15 A	Engineering Design (Original Project Scope) - 4.09 (70)																											
CT33001	Engineering Design (Revised Project Scope) - 4.09 (70)	355	27-Oct-14 A	15-Jan-17	Engineering Design (Revised Project Scope) - 4.09 (70)																											
Permitting					14-Jul-17, Permitting																											
CT14011	Permitting - 4.09 (70)	180	16-Jan-17	14-Jul-17	Permitting - 4.09 (70)																											
Procurement					10-Apr-18, Procurement																											
CT14021	Procurement - 4.09 (70)	270	15-Jul-17	10-Apr-18	Procurement - 4.09 (70)																											
Construction					05-Jan-19, Construction																											
CT14031	Construction - 4.09 (70)	180	11-Apr-18	07-Oct-18	Construction - 4.09 (70)																											
CT14041	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (70)	0		07-Oct-18*	◆ Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (70)																											
CT40710	Project Closeout - 4.09 (70)	90	08-Oct-18	05-Jan-19*	■ Project Closeout - 4.09 (70)																											
Project Administration					05-Jan-19, Project Administration																											
CT38160	WASD Project Administration - 4.09 (70)	1440	27-Oct-14 A	05-Jan-19	WASD Project Administration - 4.09 (70)																											
4.09 (71) Replace 8" ACP FM from PS#0445, West to NW 207th St, 4" From PS#0444 to NW207St					15-Jul-18, 4.09 (71) Replace 8" ACP FM from PS#0445, West to NW 207th St, 4" From PS#0444 to NW207St																											
Pre-Design					19-Apr-16 A, Engineering Design																											
CT22550	Pre-Design - 4.09 (71)	91	01-Nov-14 A	30-Jan-15 A	Pre-Design - 4.09 (71)																											
Engineering Design					28-Jul-16 A, Permitting																											
CT14051	Engineering Design - 4.09 (71)	443	02-Feb-15 A	19-Apr-16 A	Engineering Design - 4.09 (71)																											
Permitting					20-Jun-17, Procurement																											
CT50410	DERM Permit - 4.09 (71)	100	19-Apr-16 A	28-Jul-16 A	DERM Permit - 4.09 (71)																											
CT14061	Permitting - 4.09 (71)	101	19-Apr-16 A	28-Jul-16 A	Permitting - 4.09 (71)																											
CT50420	Public Works Permit (City of Miami Gardens) - 4.09 (71)	100	20-Apr-16 A	28-Jul-16 A	Public Works Permit (City of Miami Gardens) - 4.09 (71)																											
Procurement					20-Jun-17, Procurement																											
CT37170	Design Documents Sent to Procurement - 4.09 (71)	0	29-Nov-16 A		◆ Design Documents Sent to Procurement - 4.09 (71)																											
CT37180	Submit/Approve SBD Goals and Request to Advertise - 4.09 (71)	27	29-Nov-16 A	25-Jan-17	■ Submit/Approve SBD Goals and Request to Advertise - 4.09 (71)																											
CT37190	Advertise Bid Package - 4.09 (71)	0	07-Apr-17		◆ Advertise Bid Package - 4.09 (71)																											
CT37200	Bid Solicitation Period - 4.09 (71)	30	07-Apr-17	06-May-17	■ Bid Solicitation Period - 4.09 (71)																											
CT37210	Bids Due - 4.09 (71)	0	07-May-17		◆ Bids Due - 4.09 (71)																											
CT37220	Bid Review Period - 4.09 (71)	15	07-May-17	21-May-17	■ Bid Review Period - 4.09 (71)																											
CT37230	Award Recommendation - 4.09 (71)	0		21-May-17	◆ Award Recommendation - 4.09 (71)																											
CT14071	Procurement - 4.09 (71)	102	29-Nov-16 A	20-Jun-17	Procurement - 4.09 (71)																											
CT37240	Final Approvals - 4.09 (71)	30	22-May-17	20-Jun-17	■ Final Approvals - 4.09 (71)																											
Construction					15-Jul-18, Construction																											
CT37250	Contractor Notice to Proceed (NTP) - 4.09 (71)	0	21-Jun-17		◆ Contractor Notice to Proceed (NTP) - 4.09 (71)																											
CT14081	Construction - 4.09 (71)	300	21-Jun-17	16-Apr-18	Construction - 4.09 (71)																											
CT14091	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (71)	0		16-Apr-18*	◆ Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (71)																											
CT40720	Project Closeout - 4.09 (71)	90	17-Apr-18	15-Jul-18*	■ Project Closeout - 4.09 (71)																											
Project Administration					15-Jul-18, Project Administration																											
CT38140	WASD Project Administration - 4.09 (71)	1108	02-Feb-15 A	15-Jul-18	WASD Project Administration - 4.09 (71)																											
4.09 (72) Replace 9152 LF of 8", 12" and 16" ACP FM from PS#0891 to SW 108th St.-127th Ave.-88th St					21-Feb-19, 4.09 (72) Replace 9152 LF of 8", 12" and 16" ACP FM from PS#0891 to SW 108th St.-127th Ave.-88th St																											
Procurement					29-Jan-17, Procurement																											
CT14161	Procurement - 4.09 (72)	391	05-Oct-15 A	29-Jan-17	Procurement - 4.09 (72)																											
Construction					21-Feb-19, Construction																											
CT14171	Construction - 4.09 (72)	753	30-Jan-17	21-Feb-19	Construction - 4.09 (72)																											
CT14191	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (72)	0		23-Nov-18*	◆ Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (72)																											
CT40730	Project Closeout - 4.09 (72)	90	24-Nov-18	21-Feb-19*	■ Project Closeout - 4.09 (72)																											
Project Administration					21-Feb-19, Project Administration																											
CT38510	WASD Project Administration - 4.09 (72)	1057	31-Dec-15 A	21-Feb-19	WASD Project Administration - 4.09 (72)																											
4.09 (73) Replacement of 4156 LF of 16", 1375 LF of 12", 1577LF of 8" ACP FMs PS#0875 to 127th Ave					17-Dec-18, 4.09 (73) Replacement of 4156 LF of 16", 1375 LF of 12", 1577LF of 8" ACP FMs PS#0875 to 127th Ave																											
Pre-Design					02-Apr-15 A, Design																											
		216	29-Aug-14 A	02-Apr-15 A	Pre-Design																											

Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023		2024	
					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		
PS50940	EPA Compliance Date for Engineering Design - PS#0414**	0		13-May-15 A																																
PS20001	Basis of Design Report (BODR) - PS#0414	114	09-Feb-15 A	02-Jun-15 A																																
PS20011	BODR Review Period - PS#0414	34	03-Jun-15 A	06-Jul-15 A																																
PS31250	Negotiate Scope & Fee of Remaining Design - PS#0414	153	08-Jul-15 A	07-Dec-15 A																																
PS20021	30% Design Submittal - PS#0414	74	29-Sep-15 A	11-Dec-15 A																																
PS20031	30% Design Review - PS#0414	12	12-Dec-15 A	23-Dec-15 A																																
PS20041	60% Design Submittal - PS#0414	47	24-Dec-15 A	08-Feb-16 A																																
PS20051	60% Design Review - PS#0414	22	08-Feb-16 A	29-Feb-16 A																																
PS10100	Engineering Design - PS#0414	416	09-Feb-15 A	30-Mar-16 A																																
PS20061	100% Design Submittal - PS#0414	45	15-Feb-16 A	30-Mar-16 A																																
Permitting																																				
PS51670	EPA Start Date for Permitting - PS#0414**	0	14-May-15 A																																	
PS50370	DERM Permit Submittal - PS#0414	0	25-May-16 A																																	
PS50390	DERM Permit Submittal Review - PS#0414	16	25-May-16 A	09-Jun-16 A																																
PS50430	A/E Prepares/Submits Responses to DERM Permit Submittal - PS#0414	14	10-Jun-16 A	23-Jun-16 A																																
PS50380	Municipality Bldg. Dept. Submittal - PS#0414	0	30-Sep-16 A																																	
PS50410	Municipality Bldg. Dept. Submittal Review - PS#0414	31	30-Sep-16 A	30-Oct-16 A																																
PS50450	DERM Permit Approval - PS#0414	92	30-Jun-16 A	12-Dec-16 A																																
PS50440	A/E Prepares/Submits Responses to Municipality Bldg. Dept. Submittal - PS#0414	10	30-Nov-16 A	04-Jan-17																																
PS10250	Permitting - PS#0414	190	25-May-16 A	13-Jan-17																																
PS50460	Municipality Bldg. Dept. Submittal Approval - PS#0414	9	05-Jan-17	13-Jan-17																																
PS50950	EPA Compliance Date for Permitting - PS#0414	0		31-Jan-17*																																
Procurement																																				
PS51680	EPA Start Date for Procurement - PS#0414**	0	08-Jun-15 A	27-Mar-17																																
PS32290	Design Documents Sent to Procurement - PS#0414	0	15-Nov-16 A																																	
PS32300	Submit/Approve SBD Goals and Request to Advertise - PS#0414	15	15-Nov-16 A	16-Jan-17																																
PS32310	Advertise Bid Package - PS#0414	0	17-Jan-17																																	
PS32320	Bid Solicitation Period - PS#0414	30	17-Jan-17	15-Feb-17																																
PS32330	Bids Due - PS#0414	0	16-Feb-17																																	
PS32340	Bid Review Period - PS#0414	7	16-Feb-17	22-Feb-17																																
PS32350	Award Recommendation - PS#0414	0		22-Feb-17																																
PS50960	EPA Compliance Date for Procurement - PS#0414	0		05-Mar-17*																																
PS10420	Procurement - PS#0414	121	15-Nov-16 A	27-Mar-17																																
PS32360	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0414	33	23-Feb-17	27-Mar-17																																
Construction																																				
PS51690	EPA Start Date for Construction - PS#0414	0	06-Mar-17*																																	
PS32370	Contractor Notice to Proceed (NTP) - PS#0414	0	28-Mar-17																																	
PS10610	Construction - PS#0414	365	28-Mar-17	27-Mar-18																																
PS10770	Substantial Completion (CD Compliance Date 5/09/18) - PS#0414	0		27-Mar-18*																																
PS50970	EPA Compliance Date for Construction - PS#0414	0		09-May-18*																																
PS40800	Project Closeout - PS#0414	90	28-Mar-18	25-Jun-18*																																
Project Administration																																				
PS35330	WASD Project Administration - PS#0414	1271	09-Feb-15 A	25-Jun-18																																
5.05 Replacement of Switchgear and Rehabilitation of Wetwell PS#0415																																				
Pre-Design																																				
PS20250	Pre-Design - PS#0415	133	26-Sep-14 A	06-Feb-15 A																																
Engineering Design																																				
PS51700	EPA Start Date for Engineering Design - PS#0415**	0	07-Oct-14 A																																	
PS20002	Basis of Design Report (BODR) - PS#0415	127	09-Feb-15 A	15-Jun-15 A																																
PS20012	BODR Review Period - PS#0415	120	16-Jun-15 A	13-Oct-15 A																																
PS31260	Negotiate Scope & Fee of Remaining Design - PS#0415	134	27-Jul-15 A	07-Dec-15 A																																
PS20022	30% Design Submittal - PS#0415	76	14-Oct-15 A	28-Dec-15 A																																
PS20032	30% Design Review - PS#0415	14	29-Dec-15 A	11-Jan-16 A																																
PS20042	60% Design Submittal - PS#0415	46	12-Jan-16 A	26-Feb-16 A																																
PS20052	60% Design Review - PS#0415	14	27-Feb-16 A	11-Mar-16 A																																
PS50980	EPA Compliance Date for Engineering Design - PS#0415**	0		24-Apr-16 A																																
PS10110	Engineering Design - PS#0415	477	09-Feb-15 A	30-May-16 A																																
PS20062	100% Design Submittal - PS#0415	80	12-Mar-16 A	30-May-16 A																																
Permitting																																				
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	26	02-Sep-16 A	14-Dec-16 A																																
PS50290	Municipality Bldg. Dept. Submittal Review - PS#0415	31	28-Sep-16 A	01-Jan-17																																
PS50320	A/E Prepares/Submits Responses to Municipality Bldg. Dept. Submittal - PS#0415	4	02-Jan-17	05-Jan-17																																

Activity ID	Activity Name	Original Duration	Start	Finish	2016												2017												2018												2019												2020												2021												2022												2023												2024											
					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																																																								
PS10270	Permitting - PS#0415	181	31-May-16 A	13-Jan-17																																																																																																												
PS50340	Municipality Bldg. Dept. Submittal Approval - PS#0415	8	06-Jan-17	13-Jan-17																																																																																																												
PS50990	EPA Compliance Date for Permitting - PS#0415	0		31-Jan-17*																																																																																																												
Procurement																																																																																																																
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	30	17-Nov-16 A	19-Jan-17																																																																																																												
PS32400	Advertise Bid Package - PS#0415	0	20-Jan-17																																																																																																													
PS32410	Bid Solicitation Period - PS#0415	30	20-Jan-17	18-Feb-17																																																																																																												
PS32420	Bids Due - PS#0415	0	19-Feb-17																																																																																																													
PS32430	Bid Review Period - PS#0415	15	19-Feb-17	05-Mar-17																																																																																																												
PS32440	Award Recommendation - PS#0415	0		05-Mar-17																																																																																																												
PS51000	EPA Compliance Date for Procurement - PS#0415	0		19-Apr-17*																																																																																																												
PS10440	Procurement - PS#0415	147	17-Nov-16 A	19-Apr-17																																																																																																												
PS32450	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0415	45	06-Mar-17	19-Apr-17																																																																																																												
Construction																																																																																																																
PS32460	Contractor Notice to Proceed (NTP) - PS#0415	0	20-Apr-17																																																																																																													
PS51730	EPA Start Date for Construction - PS#0415	0	20-Apr-17*																																																																																																													
PS10640	Construction - PS#0415	550	20-Apr-17	21-Oct-18																																																																																																												
PS10870	Substantial Completion (CD Compliance Date 1/27/19) - PS#0415	0		21-Oct-18*																																																																																																												
PS40000	Project Closeout - PS#0415	90	22-Oct-18	19-Jan-19*																																																																																																												
PS51010	EPA Compliance Date for Construction - PS#0415	0		27-Jan-19*																																																																																																												
Project Administration																																																																																																																
PS35320	WASD Project Administration - PS#0415	1391	09-Feb-15 A	19-Jan-19																																																																																																												
5.06 Replacement of Switchgear PS#0416																																																																																																																
Pre-Design																																																																																																																
PS20260	Pre-Design - PS#0416	110	18-Oct-14 A	05-Feb-15 A																																																																																																												
Engineering Design																																																																																																																
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																																																																																																																
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	30	29-Sep-16 A	22-Nov-16 A																																																																																																												
PS50210	DERM Permit Approval - PS#0416	27	02-Sep-16 A	14-Dec-16 A																																																																																																												
PS50180	A/E Prepares/Submits Responses to Bldg. Dept. Permit Submittal - PS#0416	7	23-Nov-16 A	04-Jan-17																																																																																																												
PS10230	Permitting - PS#0416	200	24-May-16 A	13-Jan-17																																																																																																												
PS50230	Bldg. Dept. Permit Approval - PS#0416	9	05-Jan-17	13-Jan-17																																																																																																												
PS51030	EPA Compliance Date for Permitting - PS#0416	0		31-Jan-17*																																																																																																												
Procurement																																																																																																																
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	23	15-Nov-16 A	17-Jan-17																																																																																																												
PS32490	Advertise Bid Package - PS#0416	0	18-Jan-17																																																																																																													
PS32500	Bid Solicitation Period - PS#0416	30	18-Jan-17	16-Feb-17																																																																																																												
PS32510	Bids Due - PS#0416	0	17-Feb-17																																																																																																													
PS32520	Bid Review Period - PS#0416	7	17-Feb-17	23-Feb-17																																																																																																												
PS32530	Award Recommendation - PS#0416	0		23-Feb-17																																																																																																												
PS10400	Procurement - PS#0416	107	15-Nov-16 A	28-Mar-17																																																																																																												
PS32540	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0416	33	24-Feb-17	28-Mar-17																																																																																																												
PS51040	EPA Compliance Date for Procurement - PS#0416	0		31-Mar-17*																																																																																																												
Construction																																																																																																																
PS51770	EPA Start Date for Construction - PS#0416	0	25-Jan-17*																																																																																																													
PS32550	Contractor Notice to Proceed (NTP) - PS#0416	0	29-Mar-17																																																																																																													
PS10590	Construction - PS#0416	365	29-Mar-17*	28-Mar-18																																																																																																												
PS10780	Substantial Completion (CD Compliance Date 5/09/18) - PS#0416	0		28-Mar-18*																																																																																																												

Activity ID	Activity Name	Original Duration	Start	Finish	2016 - 2024																																			
					2016				2017				2018				2019				2020				2021				2022				2023				2024			
					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
Procurement		620	24-Mar-16 A	03-Dec-17	03-Dec-17, Procurement																																			
PS33030	Design Documents Sent to Procurement - PS#0107	0	12-Apr-16 A		◆ Design Documents Sent to Procurement - PS#0107																																			
PS33040	Submit/Approve SBD Goals and Request to Advertise - PS#0107	13	12-Apr-16 A	24-Apr-16 A	■ Submit/Approve SBD Goals and Request to Advertise - PS#0107																																			
PS33050	Advertise Bid Package - PS#0107	0	25-Apr-16 A		◆ Advertise Bid Package - PS#0107																																			
PS33060	Bid Solicitation Period - PS#0107	43	25-Apr-16 A	06-Jun-16 A	■ Bid Solicitation Period - PS#0107																																			
PS33070	Bids Due - PS#0107	0	07-Jun-16 A		◆ Bids Due - PS#0107																																			
PS33080	Bid Review Period - PS#0107	15	07-Jun-16 A	21-Jun-16 A	■ Bid Review Period - PS#0107																																			
PS33090	Award Recommendation - PS#0107	0		29-Jul-16 A	◆ Award Recommendation - PS#0107																																			
PS10480	Procurement - PS#0107	174	24-Mar-16 A	13-Sep-16 A	Procurement - PS#0107																																			
PS33100	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0107	46	30-Jul-16 A	13-Sep-16 A	■ Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0107																																			
PS51530	P.O. Issued - PS#0107	0		13-Sep-16 A	◆ P.O. Issued - PS#0107																																			
PS51840	EPA Start Date for Procurement - PS#0107	0	09-Mar-17*		◆ EPA Start Date for Procurement - PS#0107																																			
PS51120	EPA Compliance Date for Procurement - PS#0107	0		03-Dec-17*	◆ EPA Compliance Date for Procurement - PS#0107																																			
Construction		819	20-Oct-16 A	27-Jan-19	27-Jan-19, Construction																																			
PS33110	Contractor Notice to Proceed (NTP) - PS#0107	0	20-Oct-16 A		◆ Contractor Notice to Proceed (NTP) - PS#0107																																			
PS10680	Construction - PS#0107	300	20-Oct-16 A	15-Aug-17	■ Construction - PS#0107																																			
PS10890	Substantial Completion (CD Compliance Date 1/27/19) - PS#0107	0		15-Aug-17*	◆ Substantial Completion (CD Compliance Date 1/27/19) - PS#0107																																			
PS40830	Project Closeout - PS#0107	90	16-Aug-17	13-Nov-17*	■ Project Closeout - PS#0107																																			
PS51850	EPA Start Date for Construction - PS#0107	0	04-Dec-17*		◆ EPA Start Date for Construction - PS#0107																																			
PS51130	EPA Compliance Date for Construction - PS#0107	0		27-Jan-19*	◆ EPA Compliance Date for Construction - PS#0107																																			
Project Administration		996	09-Jun-15 A	13-Nov-17	13-Nov-17, Project Administration																																			
PS35290	WASD Project Administration - PS#0107	996	09-Jun-15 A	13-Nov-17	WASD Project Administration - PS#0107																																			
5.09 Replacement of Pumping and Electrical Equipment at PS#0301		1897	08-Sep-14 A	21-Oct-19	21-Oct-19, 5.09 Replacement of Pumping and Electrical Equipment at PS#0301																																			
Pre-Design		73	08-Sep-14 A	20-Nov-14 A																																				
PS20280	Pre-Design - PS#0301	74	08-Sep-14 A	20-Nov-14 A																																				
Engineering Design		595	07-Oct-14 A	24-May-16 A	24-May-16 A, Engineering Design																																			
PS51860	EPA Start Date for Engineering Design - PS#0301**	0	07-Oct-14 A		◆ EPA Start Date for Engineering Design - PS#0301**																																			
PS30810	Basis of Design Report (BODR) - PS#0301	151	24-Nov-14 A	23-Apr-15 A	■ Basis of Design Report (BODR) - PS#0301																																			
PS51260	EPA Compliance Date for Engineering Design - PS#0301**	0		13-May-15 A	◆ EPA Compliance Date for Engineering Design - PS#0301**																																			
PS30820	BODR Review Period - PS#0301	39	24-Apr-15 A	01-Jun-15 A	■ BODR Review Period - PS#0301																																			
PS31290	Negotiate Scope & Fee of Remaining Design (HDR) - PS#0301	67	17-May-15 A	22-Jul-15 A	◆ Negotiate Scope & Fee of Remaining Design (HDR) - PS#0301																																			
PS30830	30% Design Submittal - PS#0301	92	23-Jul-15 A	22-Oct-15 A	■ 30% Design Submittal - PS#0301																																			
PS30840	30% Design Review - PS#0301	8	23-Oct-15 A	30-Oct-15 A	◆ 30% Design Review - PS#0301																																			
PS30850	60% Design Submittal - PS#0301	70	31-Oct-15 A	08-Jan-16 A	■ 60% Design Submittal - PS#0301																																			
PS30860	60% Design Review - PS#0301	17	09-Jan-16 A	25-Jan-16 A	◆ 60% Design Review - PS#0301																																			
PS10070	Engineering Design - PS#0301	552	20-Nov-14 A	24-May-16 A	■ Engineering Design - PS#0301																																			
PS30870	100% Design Submittal - PS#0301	120	26-Jan-16 A	24-May-16 A	■ 100% Design Submittal - PS#0301																																			
Permitting		625	14-May-15 A	07-Dec-16 A	07-Dec-16 A, Permitting																																			
PS51870	EPA Start Date for Permitting - PS#0301**	0	14-May-15 A		◆ EPA Start Date for Permitting - PS#0301**																																			
PS51270	EPA Compliance Date for Permitting - PS#0301**	0		12-May-16 A	◆ EPA Compliance Date for Permitting - PS#0301**																																			
PS41590	DERM Permit Submittal - PS#0301	0	23-May-16 A		◆ DERM Permit Submittal - PS#0301																																			
PS41600	DERM Permit Submittal Review - PS#0301	19	23-May-16 A	10-Jun-16 A	■ DERM Permit Submittal Review - PS#0301																																			
PS41610	A/E Prepares/Submits Responses to DERM Permit Submittal - PS#0301	83	11-Jun-16 A	01-Sep-16 A	■ A/E Prepares/Submits Responses to DERM Permit Submittal - PS#0301																																			
PS41630	Municipality Bldg. Dept. Submittal - PS#0301	0	29-Sep-16 A		◆ Municipality Bldg. Dept. Submittal - PS#0301																																			
PS41620	DERM Permit Approval - PS#0301	27	02-Sep-16 A	04-Nov-16 A	■ DERM Permit Approval - PS#0301																																			
PS41640	Municipality Bldg. Dept. Submittal Review - PS#0301	30	29-Sep-16 A	18-Nov-16 A	■ Municipality Bldg. Dept. Submittal Review - PS#0301																																			
PS41650	A/E Prepares/Submits Responses to Municipality Bldg. Dept. Submittal - PS#0301	7	30-Nov-16 A	30-Nov-16 A	■ A/E Prepares/Submits Responses to Municipality Bldg. Dept. Submittal - PS#0301																																			
PS10220	Permitting - PS#0301	180	24-May-16 A	07-Dec-16 A	■ Permitting - PS#0301																																			
PS41660	Municipality Bldg. Dept. Permit Approval - PS#0301	21	30-Nov-16 A	07-Dec-16 A	■ Municipality Bldg. Dept. Permit Approval - PS#0301																																			
Procurement		680	08-Jun-15 A	31-Mar-17	31-Mar-17, Procurement																																			
PS51880	EPA Start Date for Procurement - PS#0301**	0	08-Jun-15 A		◆ EPA Start Date for Procurement - PS#0301**																																			
PS32650	Design Documents Sent to Procurement - PS#0301	0	08-Dec-16 A		◆ Design Documents Sent to Procurement - PS#0301																																			
PS32660	Submit/Approve SBD Goals and Request to Advertise - PS#0301	30	08-Dec-16 A	17-Jan-17	■ Submit/Approve SBD Goals and Request to Advertise - PS#0301																																			
PS32670	Advertise Bid Package - PS#0301	0	18-Jan-17		◆ Advertise Bid Package - PS#0301																																			
PS32680	Bid Solicitation Period - PS#0301	30	18-Jan-17	16-Feb-17	■ Bid Solicitation Period - PS#0301																																			
PS32690	Bids Due - PS#0301	0	17-Feb-17		◆ Bids Due - PS#0301																																			
PS32700	Bid Review Period - PS#0301	7	17-Feb-17	23-Feb-17	■ Bid Review Period - PS#0301																																			
PS32710	Award Recommendation - PS#0301	0		23-Feb-17	◆ Award Recommendation - PS#0301																																			
PS10390	Procurement - PS#0301	108	07-Dec-16 A	30-Mar-17	■ Procurement - PS#0301																																			
PS32720	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0301	35	24-Feb-17	30-Mar-17	■ Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0301																																			
PS51280	EPA Compliance Date for Procurement - PS#0301	0		31-Mar-17*	◆ EPA Compliance Date for Procurement - PS#0301																																			
Construction		935	31-Mar-17	21-Oct-19	21-Oct-19, Construction																																			
PS32730	Contractor Notice to Proceed (NTP) - PS#0301	0	31-Mar-17		◆ Contractor Notice to Proceed (NTP) - PS#0301																																			
PS51890	EPA Start Date for Construction - PS#0301	0	01-Apr-17*		◆ EPA Start Date for Construction - PS#0301																																			
PS10580	Construction Phase 1 (Consent Decree) - PS#0301	365	31-Mar-17	30-Mar-18	■ Construction Phase 1 (Consent Decree) - PS#0301																																			
PS10790	Substantial Completion Phase 1 (CD Compliance Date 5/09/18) - PS#0301	0		30-Mar-18*	◆ Substantial Completion Phase 1 (CD Compliance Date 5/09/18) - PS#0301																																			
PS51290	EPA Compliance Date for Construction - PS#0301	0		09-May-18*	◆ EPA Compliance Date for Construction - PS#0301																																			
PS41120	Construction Phase 2 (Non-Consent Decree) - PS#0301	480	31-Mar-18	23-Jul-19	■ Construction Phase 2 (Non-Consent Decree) - PS#0301																																			

Activity ID	Activity Name	Original Duration	Start	Finish	2016								2017				2018				2019				2020				2021				2022				2023				2024																							
					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	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PS51310	EPA Compliance Date for Permitting - Refurbish Emer Gen Controls at Pumpstations	0		09-Apr-15 A	Date for Permitting - Refurbish Emer Gen Controls at Pumpstations																																																											
Procurement					22-Jun-16 A, Procurement																																																											
PS30390	5.13 (14) Procurement - Refurbish PS#0522 Emergency Generator & Controls	40	12-Sep-14 A	21-Oct-14 A	Refurbish PS#0522 Emergency Generator & Controls																																																											
PS30480	5.13 (17) Procurement - Refurbish PS#0683 Emergency Generator & Controls	40	19-Sep-14 A	28-Oct-14 A	Refurbish PS#0683 Emergency Generator & Controls																																																											
PS30360	5.13 (13) Procurement - Refurbish PS#0517 Emergency Generator & Controls	40	19-Sep-14 A	28-Oct-14 A	Refurbish PS#0517 Emergency Generator & Controls																																																											
PS30510	5.13 (18) Procurement - Refurbish PS#685 Emergency Generator & Controls	38	07-Oct-14 A	13-Nov-14 A	Refurbish PS#685 Emergency Generator & Controls																																																											
PS30180	5.13 (7) Procurement - Refurbish PS#0422 Emergency Generator & Controls	38	07-Oct-14 A	13-Nov-14 A	Refurbish PS#0422 Emergency Generator & Controls																																																											
PS71630	EPA Start Date for Procurement - Refurbish Emer Gen Controls at Pumpstations	0	03-Jan-15 A		Procurement - Refurbish Emer Gen Controls at Pumpstations																																																											
PS30450	5.13 (16) Procurement - Refurbish PS#0681 Emergency Generator & Controls	77	22-Oct-14 A	06-Jan-15 A	Refurbish PS#0681 Emergency Generator & Controls																																																											
PS30420	5.13 (15) Procurement - Refurbish PS#0571 Emergency Generator & Controls	77	22-Oct-14 A	06-Jan-15 A	Refurbish PS#0571 Emergency Generator & Controls																																																											
PS30300	5.13 (11) Procurement - Refurbish PS#0426 Emergency Generator & Controls	77	22-Oct-14 A	06-Jan-15 A	Refurbish PS#0426 Emergency Generator & Controls																																																											
PS30240	5.13 (9) Procurement - Refurbish PS#0424 Emergency Generator & Controls	59	02-Feb-15 A	01-Apr-15 A	Procurement - Refurbish PS#0424 Emergency Generator & Controls																																																											
PS30120	5.13 (5) Procurement - Refurbish PS#0348 Emergency Generator & Controls	73	20-Jan-15 A	02-Apr-15 A	Procurement - Refurbish PS#0348 Emergency Generator & Controls																																																											
PS30090	5.13 (4) Procurement - Refurbish PS#0347 Emergency Generator & Controls	52	16-Feb-15 A	08-Apr-15 A	Procurement - Refurbish PS#0347 Emergency Generator & Controls																																																											
PS30330	5.13 (12) Procurement - Refurbish PS#0516 Emergency Generator & Controls	102	05-Jan-15 A	16-Apr-15 A	Procurement - Refurbish PS#0516 Emergency Generator & Controls																																																											
PS30150	5.13 (6) Procurement - Refurbish PS#0421 Emergency Generator & Controls	2	22-Apr-15 A	23-Apr-15 A	Procurement - Refurbish PS#0421 Emergency Generator & Controls																																																											
PS30000	5.13 (1) Procurement - Refurbish PS#0306 Emergency Generator & Controls	136	22-Dec-14 A	06-May-15 A	Procurement - Refurbish PS#0306 Emergency Generator & Controls																																																											
PS30030	5.13 (2) Procurement - Refurbish PS#0345 Emergency Generator & Controls	26	04-May-15 A	29-May-15 A	Procurement - Refurbish PS#0345 Emergency Generator & Controls																																																											
PS30270	5.13 (10) Procurement - Refurbish PS#0425 Emergency Generator & Controls	26	04-May-15 A	29-May-15 A	Procurement - Refurbish PS#0425 Emergency Generator & Controls																																																											
PS30540	5.13 (19) Procurement - Refurbish PS#1072 Emergency Generator & Controls	22	15-Jun-15 A	06-Jul-15 A	Procurement - Refurbish PS#1072 Emergency Generator & Controls																																																											
PS30210	5.13 (8) Procurement - Refurbish PS#0423 Emergency Generator & Controls	22	15-Jun-15 A	06-Jul-15 A	Procurement - Refurbish PS#0423 Emergency Generator & Controls																																																											
PS30570	5.13 (20) Procurement - Refurbish PS#1073 Emergency Generator & Controls	31	10-Aug-15 A	09-Sep-15 A	(20) Procurement - Refurbish PS#1073 Emergency Generator & Controls																																																											
PS10340	Procurement (Summary) - Refurbish Emer Gen Controls at Pumpstations	364	12-Sep-14 A	10-Sep-15 A	Procurement (Summary) - Refurbish Emer Gen Controls at Pumpstations																																																											
PS30060	5.13 (3) Procurement - Refurbish PS#0346 Emergency Generator & Controls	32	10-Aug-15 A	10-Sep-15 A	(3) Procurement - Refurbish PS#0346 Emergency Generator & Controls																																																											
PS51320	EPA Compliance Date for Procurement - Refurbish Emer Gen Controls at Pumpstations	0		22-Jun-16 A	(3) Procurement - Refurbish PS#0346 Emergency Generator & Controls ◆ EPA Compliance Date for Procurement - Refurbish Emer Gen Controls at Pumpstations																																																											
Construction					20-Jul-16 A, Construction																																																											
PS30490	5.13 (17) Construction - Refurbish PS#0683 Emergency Generator & Controls	29	29-Oct-14 A	26-Nov-14 A	Refurbish PS#0683 Emergency Generator & Controls																																																											
PS30520	5.13 (18) Construction - Refurbish PS#0685 Emergency Generator & Controls	18	14-Nov-14 A	01-Dec-14 A	Refurbish PS#0685 Emergency Generator & Controls																																																											
PS30190	5.13 (7) Construction - Refurbish PS#0422 Emergency Generator & Controls	25	14-Nov-14 A	08-Dec-14 A	Refurbish PS#0422 Emergency Generator & Controls																																																											
PS30370	5.13 (13) Construction - Refurbish PS#0517 Emergency Generator & Controls	27	14-Nov-14 A	10-Dec-14 A	Refurbish PS#0517 Emergency Generator & Controls																																																											
PS30400	5.13 (14) Construction - Refurbish PS#0522 Emergency Generator & Controls	83	22-Oct-14 A	12-Jan-15 A	Refurbish PS#0522 Emergency Generator & Controls																																																											
PS30310	5.13 (11) Construction - Refurbish PS#0426 Emergency Generator & Controls	29	07-Jan-15 A	04-Feb-15 A	Construction - Refurbish PS#0426 Emergency Generator & Controls																																																											
PS30460	5.13 (16) Construction - Refurbish PS#0681 Emergency Generator & Controls	29	13-Jan-15 A	10-Feb-15 A	Construction - Refurbish PS#0681 Emergency Generator & Controls																																																											
PS30430	5.13 (15) Construction - Refurbish PS#0571 Emergency Generator & Controls	29	20-Jan-15 A	17-Feb-15 A	Construction - Refurbish PS#0571 Emergency Generator & Controls																																																											
PS30160	5.13 (6) Construction - Refurbish PS#0421 Emergency Generator & Controls	2	22-Apr-15 A	23-Apr-15 A	Construction - Refurbish PS#0421 Emergency Generator & Controls																																																											
PS30100	5.13 (4) Construction - Refurbish PS#0347 Emergency Generator & Controls	29	09-Apr-15 A	07-May-15 A	Construction - Refurbish PS#0347 Emergency Generator & Controls																																																											
PS30250	5.13 (9) Construction - Refurbish PS#0424 Emergency Generator & Controls	29	10-Apr-15 A	08-May-15 A	Construction - Refurbish PS#0424 Emergency Generator & Controls																																																											
PS30130	5.13 (5) Construction - Refurbish PS#0348 Emergency Generator & Controls	55	03-Apr-15 A	27-May-15 A	Construction - Refurbish PS#0348 Emergency Generator & Controls																																																											
PS30040	5.13 (2) Construction - Refurbish PS#0345 Emergency Generator & Controls	10	01-Jun-15 A	10-Jun-15 A	Construction - Refurbish PS#0345 Emergency Generator & Controls																																																											
PS30280	5.13 (10) Construction - Refurbish PS#0425 Emergency Generator & Controls	12	01-Jun-15 A	12-Jun-15 A	Construction - Refurbish PS#0425 Emergency Generator & Controls																																																											
PS30010	5.13 (1) Construction - Refurbish PS#0306 Emergency Generator & Controls	81	12-May-15 A	31-Jul-15 A	Construction - Refurbish PS#0306 Emergency Generator & Controls																																																											
PS30550	5.13 (19) Construction - Refurbish PS#1072 Emergency Generator & Controls	29	07-Jul-15 A	04-Aug-15 A	Construction - Refurbish PS#1072 Emergency Generator & Controls																																																											
PS30220	5.13 (8) Construction - Refurbish PS#0423 Emergency Generator & Controls	29	07-Jul-15 A	04-Aug-15 A	Construction - Refurbish PS#0423 Emergency Generator & Controls																																																											
PS30580	5.13 (20) Construction - Refurbish PS#1073 Emergency Generator & Controls	19	10-Sep-15 A	28-Sep-15 A	(20) Construction - Refurbish PS#1073 Emergency Generator & Controls																																																											
PS30070	5.13 (3) Construction - Refurbish PS#0346 Emergency Generator & Controls	29	11-Sep-15 A	09-Oct-15 A	(3) Construction - Refurbish PS#0346 Emergency Generator & Controls																																																											
PS71640	EPA Start Date for Construction - Refurbish Emer Gen Controls at Pumpstations	0	03-Jan-16 A		EPA Start Date for Construction - Refurbish Emer Gen Controls at Pumpstations																																																											
PS10520	Construction (Summary) - Refurbish Emer Gen Controls at Pumpstations	464	29-Oct-14 A	04-Feb-16 A	Construction (Summary) - Refurbish Emer Gen Controls at Pumpstations																																																											
PS30340	5.13 (12) Construction - Refurbish PS#0516 Emergency Generator & Controls	269	12-May-15 A	04-Feb-16 A	5.13 (12) Construction - Refurbish PS#0516 Emergency Generator & Controls																																																											
PS10630	Substantial Completion (CD Compliance Date 7/20/16) - Refurbish Emer Gen Controls at Pumpstations	0		04-Feb-16 A	◆ Substantial Completion (CD Compliance Date 7/20/16) - Refurbish Emer Gen Controls at Pumpstations																																																											
PS51330	EPA Compliance Date for Construction - Refurbish Emer Gen Controls at Pumpstations	0		20-Jul-16 A	◆ EPA Compliance Date for Construction - Refurbish Emer Gen Controls at Pumpstations																																																											
5.14 Upgrade of PS#0086, 0492					652 19-Mar-12 A 31-Dec-13 A																																																											
Procurement					383 19-Mar-12 A 06-Apr-13 A																																																											
PS10000	Procurement - Upgrade PS#0086, 0492	183	19-Mar-12 A	17-Sep-12 A																																																												
PS71650	EPA Start Date for Procurement - Upgrade PS#0086, 0492	0	08-Oct-12 A																																																													
PS51340	EPA Compliance Date for Procurement - Upgrade PS#0086, 0492	0		06-Apr-13 A																																																												
Construction					269 06-Apr-13 A 31-Dec-13 A																																																											
PS71660	EPA Start Date for Construction - Upgrade PS#0086, 0492	0	06-Apr-13 A																																																													
PS10010	Construction - Upgrade PS#0086, 0492	101	06-Apr-13 A	15-Jul-13 A																																																												
PS10160	Substantial Completion (CD Compliance Date 12/31/13) - Upgrade PS#0086, 0492	0		15-Jul-13 A																																																												
PS51350	EPA Compliance Date for Construction - Upgrade PS#0086, 0492	0		31-Dec-13 A																																																												
5.15 Upgrade of PS#0065, 0201, 0334, 0374, 0607					1845 12-Dec-10 A 31-Dec-15 A																																																											
Engineering Design					1496 12-Dec-10 A 16-Jan-15 A																																																											
PS71670	EPA Start Date for Engineering Design - Upgrade PS#0065, 0201, 0334, 0374, 0607	0	01-Jan-14 A		PS#0065, 0201, 0334, 0374, 0607																																																											
PS51360	EPA Compliance Date for Engineering Design - Upgrade PS#0065, 0201, 0334, 0374, 0607**	0		09-Jan-15 A	for Engineering Design - Upgrade PS#0065, 0201, 0334, 0374, 0607**																																																											
PS10170	Engineering Design - Upgrade PS#0065, 0201, 0334, 0374, 0607	1497	12-Dec-10 A	16-Jan-15 A	Upgrade PS#0065, 0201, 0334, 0374, 0607																																																											
Permitting					1579 12-Dec-10 A 09-Apr-15 A																																																											
PS71680	EPA Start Date for Permitting - Upgrade PS#0065, 0201, 0334, 0374, 0607	0	10-Jan-15 A		Permitting - Upgrade PS#0065, 0201, 0334, 0374, 0607																																																											

Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024			
					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
PS10260	Permitting - Upgrade PS#0065, 0201, 0334, 0374, 0607	1528	12-Dec-10 A	16-Feb-15 A	Date for Permitting - Upgrade PS#0065, 0201, 0334, 0374, 0607																																			
PS51370	EPA Compliance Date for Permitting - Upgrade PS#0065, 0201, 0334, 0374, 0607	0		09-Apr-15 A	Date for Permitting - Upgrade PS#0065, 0201, 0334, 0374, 0607																																			
Procurement		1625	12-Dec-10 A	25-May-15 A	Procurement																																			
PS71690	EPA Start Date for Procurement - Upgrade PS#0065, 0201, 0334, 0374, 0607	0	08-Oct-14 A		Date for Procurement - Upgrade PS#0065, 0201, 0334, 0374, 0607																																			
PS51380	EPA Compliance Date for Procurement - Upgrade PS#0065, 0201, 0334, 0374, 0607**	0		06-Apr-15 A	Date for Procurement - Upgrade PS#0065, 0201, 0334, 0374, 0607**																																			
PS10320	Procurement - Upgrade PS#0065, 0201, 0334, 0374, 0607	1626	12-Dec-10 A	25-May-15 A	Procurement - Upgrade PS#0065, 0201, 0334, 0374, 0607																																			
Construction		1845	12-Dec-10 A	31-Dec-15 A	Construction																																			
PS71700	EPA Start Date for Construction - Upgrade PS#0065, 0201, 0334, 0374, 0607	0	06-Apr-15 A		Date for Construction - Upgrade PS#0065, 0201, 0334, 0374, 0607																																			
PS10350	Construction - Upgrade PS#0065, 0201, 0334, 0374, 0607	1845	12-Dec-10 A	30-Dec-15 A	Construction - Upgrade PS#0065, 0201, 0334, 0374, 0607																																			
PS10500	Substantial Completion (CD Compliance Date 12/31/15) - Upgrade PS#0065, 0201, 0334, 0374, 0607	0		30-Dec-15 A	Substantial Completion (CD Compliance Date 12/31/15) - Upgrade PS#0065, 0201, 0334, 0374, 0607																																			
PS51390	EPA Compliance Date for Construction - Upgrade PS#0065, 0201, 0334, 0374, 0607	0		31-Dec-15 A	Date for Construction - Upgrade PS#0065, 0201, 0334, 0374, 0607																																			
5.15 (1) Pump Station 0065 Compliance Project		508	01-Aug-14 A	22-Dec-15 A	5.15 (1) Pump Station 0065 Compliance Project																																			
Pre-Design		87	01-Aug-14 A	26-Oct-14 A	Pre-Design																																			
PS20490	Pre-Design - PS#0065 Compliance Project	87	01-Aug-14 A	26-Oct-14 A	Pre-Design - PS#0065 Compliance Project																																			
Engineering Design		81	27-Oct-14 A	16-Jan-15 A	Engineering Design																																			
PS12002	Engineering Design - PS#0065 Compliance Project	82	27-Oct-14 A	16-Jan-15 A	Engineering Design - PS#0065 Compliance Project																																			
Permitting		28	19-Jan-15 A	16-Feb-15 A	Permitting																																			
PS12012	Permitting - PS#0065 Compliance Project	29	19-Jan-15 A	16-Feb-15 A	Permitting - PS#0065 Compliance Project																																			
Procurement		63	23-Feb-15 A	27-Apr-15 A	Procurement																																			
PS12022	Procurement - PS#0065 Compliance Project	64	23-Feb-15 A	27-Apr-15 A	Procurement - PS#0065 Compliance Project																																			
Construction		225	11-May-15 A	22-Dec-15 A	Construction																																			
PS12032	Construction - PS#0065 Compliance Project	226	11-May-15 A	22-Dec-15 A	Construction - PS#0065 Compliance Project																																			
PS12042	Substantial Completion (CD Compliance Date 12/31/15) - PS#0065 Compliance Project	0		22-Dec-15 A	Substantial Completion (CD Compliance Date 12/31/15) - PS#0065 Compliance Project																																			
5.15 (1.1) FM for Pump Station 0065 Phase 1		446	01-Aug-14 A	21-Oct-15 A	5.15 (1.1) FM for Pump Station 0065 Phase 1																																			
Pre-Design		87	01-Aug-14 A	26-Oct-14 A	Pre-Design																																			
PS31110	Pre-Design - FM for PS#0065 Phase 1	87	01-Aug-14 A	26-Oct-14 A	Pre-Design - FM for PS#0065 Phase 1																																			
Engineering Design		81	27-Oct-14 A	16-Jan-15 A	Engineering Design																																			
PS31060	Engineering Design - FM for PS#0065 Phase 1	82	27-Oct-14 A	16-Jan-15 A	Engineering Design - FM for PS#0065 Phase 1																																			
Permitting		28	19-Jan-15 A	16-Feb-15 A	Permitting																																			
PS31070	Permitting - FM for PS#0065 Phase 1	29	19-Jan-15 A	16-Feb-15 A	Permitting - FM for PS#0065 Phase 1																																			
Procurement		91	23-Feb-15 A	25-May-15 A	Procurement																																			
PS31080	Procurement - FM for PS#0065 Phase 1	92	23-Feb-15 A	25-May-15 A	Procurement - FM for PS#0065 Phase 1																																			
Construction		148	26-May-15 A	21-Oct-15 A	Construction																																			
PS31090	Construction - FM for PS#0065 Phase 1	149	26-May-15 A	21-Oct-15 A	Construction - FM for PS#0065 Phase 1																																			
PS31100	Substantial Completion (CD Compliance Date 12/31/15) - FM for PS#0065 Phase 1	0		21-Oct-15 A	Substantial Completion (CD Compliance Date 12/31/15) - FM for PS#0065 Phase 1																																			
5.15 (2) Pump Station 0201 Compliance Project		976	01-Jan-13 A	04-Sep-15 A	5.15 (2) Pump Station 0201 Compliance Project																																			
Engineering Design		367	01-Jan-13 A	03-Jan-14 A	Engineering Design																																			
PS12052	Engineering Design - PS#0201 Compliance Project	368	01-Jan-13 A	03-Jan-14 A	Engineering Design - PS#0201 Compliance Project																																			
Permitting		172	06-Jan-14 A	27-Jun-14 A	Permitting																																			
PS12062	Permitting - PS#0201 Compliance Project	173	06-Jan-14 A	27-Jun-14 A	Permitting - PS#0201 Compliance Project																																			
Procurement		262	30-Jun-14 A	19-Mar-15 A	Procurement																																			
PS12072	Procurement - PS#0201 Compliance Project	263	30-Jun-14 A	19-Mar-15 A	Procurement - PS#0201 Compliance Project																																			
Construction		168	20-Mar-15 A	04-Sep-15 A	Construction																																			
PS12082	Construction - PS#0201 Compliance Project	169	20-Mar-15 A	04-Sep-15 A	Construction - PS#0201 Compliance Project																																			
PS12092	Substantial Completion (CD Compliance Date 12/31/15) - PS#0201 Compliance Project	0		04-Sep-15 A	Substantial Completion (CD Compliance Date 12/31/15) - PS#0201 Compliance Project																																			
5.15 (3) Pump Station 0334 Compliance Project		1093	01-Jan-13 A	30-Dec-15 A	5.15 (3) Pump Station 0334 Compliance Project																																			
Engineering Design		367	01-Jan-13 A	03-Jan-14 A	Engineering Design																																			
PS12102	Engineering Design - PS#0334 Compliance Project	368	01-Jan-13 A	03-Jan-14 A	Engineering Design - PS#0334 Compliance Project																																			
Permitting		172	06-Jan-14 A	27-Jun-14 A	Permitting																																			
PS12112	Permitting - PS#0334 Compliance Project	173	06-Jan-14 A	27-Jun-14 A	Permitting - PS#0334 Compliance Project																																			
Procurement		232	17-Jun-14 A	04-Feb-15 A	Procurement																																			
PS12122	Procurement - PS#0334 Compliance Project	233	17-Jun-14 A	04-Feb-15 A	Procurement - PS#0334 Compliance Project																																			
Construction		328	05-Feb-15 A	30-Dec-15 A	Construction																																			
PS12132	Construction - PS#0334 Compliance Project	329	05-Feb-15 A	30-Dec-15 A	Construction - PS#0334 Compliance Project																																			
PS12142	Substantial Completion (CD Compliance Date 12/31/15) - PS#0334 Compliance Project	0		30-Dec-15 A	Substantial Completion (CD Compliance Date 12/31/15) - PS#0334 Compliance Project																																			
5.15 (3.1) FM for Pump Station 0334		846	01-Jan-13 A	27-Apr-15 A	5.15 (3.1) FM for Pump Station 0334																																			
Engineering Design		367	01-Jan-13 A	03-Jan-14 A	Engineering Design																																			
PS12152	Engineering Design - FM for Pump Station 0334	368	01-Jan-13 A	03-Jan-14 A	Engineering Design - FM for Pump Station 0334																																			
Permitting		219	06-Jan-14 A	13-Aug-14 A	Permitting																																			
PS12162	Permitting - FM for Pump Station 0334	220	06-Jan-14 A	13-Aug-14 A	Permitting - FM for Pump Station 0334																																			
Procurement		146	30-Jun-14 A	23-Nov-14 A	Procurement																																			
PS12172	Procurement - FM for Pump Station 0334	147	30-Jun-14 A	23-Nov-14 A	Procurement - FM for Pump Station 0334																																			
Construction		154	24-Nov-14 A	27-Apr-15 A	Construction																																			
PS12182	Construction - FM for Pump Station 0334	155	24-Nov-14 A	27-Apr-15 A	Construction - FM for Pump Station 0334																																			
PS12192	Substantial Completion (CD Compliance Date 12/31/15) - FM for Pump Station 0334	0		27-Apr-15 A	Substantial Completion (CD Compliance Date 12/31/15) - FM for Pump Station 0334																																			
5.15 (4) Pump Station No. 0374 Upgrade		1118	12-Dec-10 A	03-Jan-14 A	5.15 (4) Pump Station No. 0374 Upgrade																																			
Engineering Design		1118	12-Dec-10 A	03-Jan-14 A	Engineering Design																																			
PS12202	Engineering Design - PS#0374 Upgrade	1119	12-Dec-10 A	03-Jan-14 A	Engineering Design - PS#0374 Upgrade																																			
Permitting		1118	12-Dec-10 A	03-Jan-14 A	Permitting																																			
PS12212	Permitting - PS#0374 Upgrade	1119	12-Dec-10 A	03-Jan-14 A	Permitting - PS#0374 Upgrade																																			

Activity ID	Activity Name	Original Duration	Start	Finish	2016		2017				2018				2019				2020				2021				2022				2023				2024				
					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	
PS40880	Project Closeout - PS#0198 Compliance Project	90	14-Feb-17	14-May-17*																																			
Project Administration			662	01-May-15 A	14-May-17																																		
PS35240	WASD Project Administration - PS#0198 Compliance Project	662	01-May-15 A	14-May-17																																			
5.16 (2) Pump Station No. 0437 Upgrade			879	03-Nov-14 A	30-Mar-17																																		
Pre-Design			178	03-Nov-14 A	30-Apr-15 A																																		
PS20300	Pre-Design -PS#0437 Upgrade	179	03-Nov-14 A	30-Apr-15 A																																			
Engineering Design			95	01-May-15 A	04-Aug-15 A																																		
PS12402	Engineering Design - PS#0437 Upgrade	96	01-May-15 A	04-Aug-15 A																																			
Permitting			67	10-Aug-15 A	16-Oct-15 A																																		
PS12412	Permitting - PS#0437 Upgrade	68	10-Aug-15 A	16-Oct-15 A																																			
Procurement			145	24-Nov-15 A	17-Apr-16 A																																		
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			347	18-Apr-16 A	30-Mar-17																																		
PS33470	Contractor Notice to Proceed (NTP) - PS#0437 Upgrade	0	18-Apr-16 A																																				
PS12432	Construction - PS#0437 Upgrade	198	02-May-16 A	30-Dec-16 A																																			
PS12442	Substantial Completion (CD Compliance Date 12/31/16) - PS#0437 Upgrade	0		30-Dec-16 A																																			
PS40890	Project Closeout - PS#0437 Upgrade	90	31-Dec-16	30-Mar-17*																																			
Project Administration			655	01-May-15 A	30-Mar-17																																		
PS35230	WASD Project Administration - PS#0437 Upgrade	655	01-May-15 A	30-Mar-17																																			
5.16 (3) Pump Station 0466 Compliance Project			875	03-Nov-14 A	19-Jan-17																																		
Pre-Design			263	03-Nov-14 A	24-Jul-15 A																																		
PS20310	Pre-Design - PS#0466 Compliance Project	264	03-Nov-14 A	24-Jul-15 A																																			
Engineering Design			67	27-Jul-15 A	02-Oct-15 A																																		
PS12452	Engineering Design - PS#0466 Compliance Project	68	27-Jul-15 A	02-Oct-15 A																																			
Permitting			0	02-Oct-15 A	02-Oct-15 A																																		
PS12462	Permitting - PS#0466 Compliance Project	1	02-Oct-15 A	02-Oct-15 A																																			
Procurement			115	26-Feb-16 A	20-Jun-16 A																																		
PS33480	Design Documents Sent to Procurement - PS#0466 Compliance Project	0	26-Feb-16 A																																				
PS33490	Submit/Approve SBD Goals and Request to Advertise - PS#0466 Compliance Project	18	26-Feb-16 A	14-Mar-16 A																																			
PS33500	Advertise Bid Package - PS#0466 Compliance Project	0	15-Mar-16 A																																				
PS33510	Bid Solicitation Period - PS#0466 Compliance Project	32	15-Mar-16 A	15-Apr-16 A																																			
PS33520	Bids Due - PS#0466 Compliance Project	0	15-Apr-16 A																																				
PS33530	Bid Review Period - PS#0466 Compliance Project	8	15-Apr-16 A	22-Apr-16 A																																			
PS33540	Award Recommendation - 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			202	11-Jul-16 A	19-Jan-17																																		
PS33560	Contractor Notice to Proceed (NTP) - PS#0466 Compliance Project	0	11-Jul-16 A																																				
PS12482	Construction - PS#0466 Compliance Project	169	11-Jul-16 A	21-Oct-16 A																																			
PS12492	Substantial Completion (CD Compliance Date 12/31/16) - PS#0466 Compliance Project	0		21-Oct-16 A																																			
PS40900	Project Closeout - PS#0466 Compliance Project	90	22-Oct-16 A	19-Jan-17*																																			
Project Administration			609	27-Jul-15 A	19-Jan-17																																		
PS35220	WASD Project Administration - PS#0466 Compliance Project	609	27-Jul-15 A	19-Jan-17																																			
5.16 (4) Pump Station 0680 Upgrade			881	03-Nov-14 A	01-Mar-17																																		
Pre-Design			178	03-Nov-14 A	30-Apr-15 A																																		
PS20320	Pre-Design - PS#0680 Upgrade	179	03-Nov-14 A	30-Apr-15 A																																			
Engineering Design			95	01-May-15 A	04-Aug-15 A																																		
PS12502	Engineering Design - PS#0680 Upgrade	96	01-May-15 A	04-Aug-15 A																																			
Permitting			140	10-Aug-15 A	28-Dec-15 A																																		
PS12512	Permitting - PS#0680 Upgrade	141	10-Aug-15 A	28-Dec-15 A																																			
Procurement			85	24-Nov-15 A	17-Feb-16 A																																		
PS33570	Design Documents Sent to Procurement - PS#0680 Upgrade	0	24-Nov-15 A																																				
PS33580	Submit/Approve SBD Goals and Request to Advertise - PS#0680 Upgrade	16	24-Nov-15 A	09-Dec-15 A																																			
PS33590	Advertise Bid Package - PS#0680 Upgrade	0	09-Dec-15 A																																				
PS33600	Bid Solicitation Period - PS#0680 Upgrade	31	09-Dec-15 A	08-Jan-16 A																																			
PS33610	Bids Due - PS#0680 Upgrade	0	09-Jan-16 A																																				
PS33620	Bid Review Period - PS#0680 Upgrade	12	09-Jan-16 A	20-Jan-16 A																																			
PS33630	Award Recommendation - PS#0680 Upgrade	0		20-Jan-16 A																																			
PS12522	Procurement - PS#0680 Upgrade	86	24-Nov-15 A	17-Feb-16 A																																			

Activity ID	Activity Name	Original Duration	Start	Finish	2016 2017 2018 2019 2020 2021 2022 2023 2024																																	
					2016				2017				2018				2019				2020				2021				2022				2023				2024	
					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
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					170 15-Aug-16 A 10-Jan-17																																	
PS41750	RER DERM Permit - PS#0351 Upgrade	60	16-Aug-16 A	06-Dec-16 A	RER DERM Permit - PS#0351 Upgrade																																	
PS12612	Permitting - PS#0351 Upgrade	114	15-Aug-16 A	10-Jan-17	Permitting - PS#0351 Upgrade																																	
PS41760	Municipal PW Permit - PS#0351 Upgrade	32	24-Oct-16 A	10-Jan-17	Municipal PW Permit - PS#0351 Upgrade																																	
PS41780	City of Miami Gardens Building Dept Permit - PS#0351 Upgrade	32	24-Oct-16 A	10-Jan-17	City of Miami Gardens Building Dept Permit - PS#0351 Upgrade																																	
PS50760	MDDTPW Permit - PS#0351 Upgrade	32	24-Oct-16 A	10-Jan-17	MDDTPW Permit - PS#0351 Upgrade																																	
Procurement					105 23-Nov-16 A 05-Apr-17																																	
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	30	23-Nov-16 A	22-Jan-17	Submit/Approve SBD Goals and Request to Advertise - PS#0351 Upgrade																																	
PS33770	Advertise Bid Package - PS#0351 Upgrade	0	24-Jan-17		Advertise Bid Package - PS#0351 Upgrade																																	
PS33780	Bid Solicitation Period - PS#0351 Upgrade	30	24-Jan-17	22-Feb-17	Bid Solicitation Period - PS#0351 Upgrade																																	
PS33790	Bids Due - PS#0351 Upgrade	0	23-Feb-17		Bids Due - PS#0351 Upgrade																																	
PS33800	Bid Review Period - PS#0351 Upgrade	14	23-Feb-17	08-Mar-17	Bid Review Period - PS#0351 Upgrade																																	
PS33810	Award Recommendation - PS#0351 Upgrade	0		08-Mar-17	Award Recommendation - PS#0351 Upgrade																																	
PS12622	Procurement - PS#0351 Upgrade	105	23-Nov-16 A	05-Apr-17	Procurement - PS#0351 Upgrade																																	
PS33820	Final Approvals - PS#0351 Upgrade	28	09-Mar-17	05-Apr-17	Final Approvals - PS#0351 Upgrade																																	
Construction					360 06-Apr-17 31-Mar-18																																	
PS33830	Contractor Notice to Proceed (NTP) - PS#0351 Upgrade	0	06-Apr-17		Contractor Notice to Proceed (NTP) - PS#0351 Upgrade																																	
PS12632	Construction - PS#0351 Upgrade	270	06-Apr-17	31-Dec-17	Construction - PS#0351 Upgrade																																	
PS12642	Substantial Completion (CD Compliance Date 12/31/17) - PS#0351 Upgrade	0		31-Dec-17*	Substantial Completion (CD Compliance Date 12/31/17) - PS#0351 Upgrade																																	
PS40930	Project Closeout - PS#0351 Upgrade	90	01-Jan-18	31-Mar-18*	Project Closeout - PS#0351 Upgrade																																	
Project Administration					704 12-Apr-16 A 31-Mar-18																																	
PS35190	WASD Project Administration - PS#0351 Upgrade	704	12-Apr-16 A	31-Mar-18	WASD Project Administration - PS#0351 Upgrade																																	
5.17 (3) Pump Station No. 0370 Upgrade and Installation of FM					837 16-Dec-15 A 31-Mar-18																																	
Pre-Design					117 16-Dec-15 A 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					133 12-Apr-16 A 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																																	
PS50560	30% Design Review - PS#0370 Upgrade and FM Installation	18	31-May-16 A	17-Jun-16 A	30% Design Review - PS#0370 Upgrade and FM Installation																																	
PS50570	90% Design Submittal - PS#0370 Upgrade and FM Installation	35	18-Jun-16 A	22-Jul-16 A	90% Design Submittal - PS#0370 Upgrade and FM Installation																																	
PS12702	Engineering Design - PS#0370 Upgrade and FM Installation	134	12-Apr-16 A	23-Aug-16 A	Engineering Design - PS#0370 Upgrade and FM Installation																																	
PS50580	90% Design Review - PS#0370 Upgrade and FM Installation	32	23-Jul-16 A	23-Aug-16 A	90% Design Review - PS#0370 Upgrade and FM Installation																																	
Permitting					159 24-Aug-16 A 15-Feb-17																																	
PS50590	RER DERM Permit - PS#0370 Upgrade and FM Installation	53	24-Aug-16 A	06-Dec-16 A	RER DERM Permit - PS#0370 Upgrade and FM Installation																																	
PS12712	Permitting - PS#0370 Upgrade and FM Installation	83	24-Aug-16 A	15-Feb-17	Permitting - PS#0370 Upgrade and FM Installation																																	
PS50600	RER Building Dept. Permit - PS#0370 Upgrade and FM Installation	30	08-Dec-16 A	15-Feb-17	RER Building Dept. Permit - PS#0370 Upgrade and FM Installation																																	
PS50730	City of Miami Gardens Building Dept. Permit - PS#0370 Upgrade and FM Installation	30	08-Dec-16 A	15-Feb-17	City of Miami Gardens Building Dept. Permit - PS#0370 Upgrade and FM Installation																																	
PS50740	MDDTPW Permit - PS#0370 Upgrade and FM Installation	30	08-Dec-16 A	15-Feb-17	MDDTPW Permit - PS#0370 Upgrade and FM Installation																																	
PS50750	Municipal PWD Permit - PS#0370 Upgrade and FM Installation	30	08-Dec-16 A	15-Feb-17	Municipal PWD Permit - PS#0370 Upgrade and FM Installation																																	
Procurement					112 23-Nov-16 A 05-Apr-17																																	
PS33930	Design Documents Sent to Procurement - PS#0370 Upgrade and FM Installation	0	23-Nov-16 A		Design Documents Sent to Procurement - PS#0370 Upgrade and FM Installation																																	
PS33940	Submit/Approve SBD Goals and Request to Advertise - PS#0370 Upgrade and FM Installation	30	23-Nov-16 A	22-Jan-17	Submit/Approve SBD Goals and Request to Advertise - PS#0370 Upgrade and FM Installation																																	
PS33950	Advertise Bid Package - PS#0370 Upgrade and FM Installation	0	24-Jan-17		Advertise Bid Package - PS#0370 Upgrade and FM Installation																																	
PS33960	Bid Solicitation Period - PS#0370 Upgrade and FM Installation	30	24-Jan-17	22-Feb-17	Bid Solicitation Period - PS#0370 Upgrade and FM Installation																																	
PS33970	Bids Due - PS#0370 Upgrade and FM Installation	0	23-Feb-17		Bids Due - PS#0370 Upgrade and FM Installation																																	
PS33980	Bid Review Period - PS#0370 Upgrade and FM Installation	14	23-Feb-17	08-Mar-17	Bid Review Period - PS#0370 Upgrade and FM Installation																																	
PS33990	Award Recommendation - PS#0370 Upgrade and FM Installation	0		08-Mar-17	Award Recommendation - PS#0370 Upgrade and FM Installation																																	
PS12722	Procurement - PS#0370 Upgrade and FM Installation	90	23-Nov-16 A	05-Apr-17	Procurement - PS#0370 Upgrade and FM Installation																																	
PS34000	Final Approvals - PS#0370 Upgrade and FM Installation	28	09-Mar-17	05-Apr-17	Final Approvals - PS#0370 Upgrade and FM Installation																																	
Construction					360 06-Apr-17 31-Mar-18																																	
PS34010	Contractor Notice to Proceed (NTP) - PS#0370 Upgrade and FM Installation	0	06-Apr-17		Contractor Notice to Proceed (NTP) - PS#0370 Upgrade and FM Installation																																	
PS41790	Issue PO - PS#0370 Upgrade and FM Installation	0	06-Apr-17		Issue PO - PS#0370 Upgrade and FM Installation																																	
PS12732	Construction - PS#0370 Upgrade and FM Installation	270	06-Apr-17	31-Dec-17	Construction - PS#0370 Upgrade and FM Installation																																	
PS12742	Substantial Completion (CD Compliance Date 12/31/17) - PS#0370 Upgrade and FM Installation	0		31-Dec-17*	Substantial Completion (CD Compliance Date 12/31/17) - PS#0370 Upgrade and FM Installation																																	
PS40950	Project Closeout - PS#0370 Upgrade and FM Installation	90	01-Jan-18	31-Mar-18*	Project Closeout - PS#0370 Upgrade and FM Installation																																	
Project Administration					667 12-Apr-16 A 31-Mar-18																																	
PS35170	WASD Project Administration - PS#0370 Upgrade and FM Installation	667	12-Apr-16 A	31-Mar-18	WASD Project Administration - PS#0370 Upgrade and FM Installation																																	
5.17 (4) Pump Station 0403 Upgrade					837 16-Dec-15 A 31-Mar-18																																	
Pre-Design					117 16-Dec-15 A 11-Apr-16 A																																	
PS20380	Pre-Design - PS#0403 Upgrade	118	16-Dec-15 A	11-Apr-16 A	Pre-Design - PS#0403 Upgrade																																	
Engineering Design					147 11-Apr-16 A 05-Sep-16 A																																	
PS50610	30% Design Submittal - PS#0403 Upgrade	63	12-Apr-16 A	13-Jun-16 A	30% Design Submittal - PS#0403 Upgrade																																	
PS50640	30% Design Review - PS#0403 Upgrade	37	14-Jun-16 A	20-Jul-16 A	30% Design Review - PS#0403 Upgrade																																	
PS50650	90% Design Submittal - PS#0403 Upgrade	41	21-Jul-16 A	30-Aug-16 A	90% Design Submittal - PS#0403 Upgrade																																	

Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					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
5.18 (2) Pump Station 0491 Compliance Project					23-Mar-19, 5.18 (2) Pump Station 0491 Compliance Project																																	
Pre-Design					30-Mar-17, Pre-Design																																	
PS20400	Pre-Design - PS#0491 Compliance Project	90	31-Dec-16	30-Mar-17	Pre-Design - PS#0491 Compliance Project																																	
Engineering Design					27-Aug-17, Engineering Design																																	
PS12902	Engineering Design - PS#0491 Compliance Project	150	31-Mar-17	27-Aug-17	Engineering Design - PS#0491 Compliance Project																																	
Permitting					25-Nov-17, Permitting																																	
PS12912	Permitting - PS#0491 Compliance Project	90	28-Aug-17	25-Nov-17	Permitting - PS#0491 Compliance Project																																	
Procurement					28-Mar-18, Procurement																																	
PS71870	Internal Bid Package Review - PS#0491 Compliance Project	3	26-Nov-17	28-Nov-17	Internal Bid Package Review - PS#0491 Compliance Project																																	
PS34290	Design Documents Sent to Procurement - PS#0491 Compliance Project	0	29-Nov-17		Design Documents Sent to Procurement - PS#0491 Compliance Project																																	
PS34300	Submit/Approve SBD Goals and Request to Advertise - PS#0491 Compliance Project	30	29-Nov-17	28-Dec-17	Submit/Approve SBD Goals and Request to Advertise - PS#0491 Compliance Project																																	
PS34310	Advertise Bid Package - PS#0491 Compliance Project	0	29-Dec-17		Advertise Bid Package - PS#0491 Compliance Project																																	
PS34320	Bid Solicitation Period - PS#0491 Compliance Project	45	29-Dec-17	11-Feb-18	Bid Solicitation Period - PS#0491 Compliance Project																																	
PS34330	Bids Due - PS#0491 Compliance Project	0	12-Feb-18		Bids Due - PS#0491 Compliance Project																																	
PS34340	Bid Review Period - PS#0491 Compliance Project	15	12-Feb-18	26-Feb-18	Bid Review Period - PS#0491 Compliance Project																																	
PS34350	Award Recommendation - PS#0491 Compliance Project	0		26-Feb-18	Award Recommendation - PS#0491 Compliance Project																																	
PS12922	Procurement - PS#0491 Compliance Project	120	29-Nov-17	28-Mar-18	Procurement - PS#0491 Compliance Project																																	
PS34360	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0491 Compliance Project	30	27-Feb-18	28-Mar-18	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0491 Compliance Project																																	
Construction					23-Mar-19, Construction																																	
PS34370	Contractor Notice to Proceed (NTP) - PS#0491 Compliance Project	0	29-Mar-18		Contractor Notice to Proceed (NTP) - PS#0491 Compliance Project																																	
PS12932	Construction - PS#0491 Compliance Project	270	29-Mar-18	23-Dec-18	Construction - PS#0491 Compliance Project																																	
PS12942	Substantial Completion (CD Compliance Date 12/31/18) - PS#0491 Compliance Project	0		23-Dec-18*	Substantial Completion (CD Compliance Date 12/31/18) - PS#0491 Compliance Project																																	
PS40990	Project Closeout - PS#0491 Compliance Project	90	24-Dec-18	23-Mar-19*	Project Closeout - PS#0491 Compliance Project																																	
Project Administration					23-Mar-19, Project Administration																																	
PS35130	WASD Project Administration - PS#0491 Compliance Project	723	31-Mar-17	23-Mar-19	WASD Project Administration - PS#0491 Compliance Project																																	
5.18 (3) Pump Station 0710 Compliance Project					12-Feb-19, 5.18 (3) Pump Station 0710 Compliance Project																																	
Pre-Design					19-Feb-17, Pre-Design																																	
PS20410	Pre-Design - PS#0710 Compliance Project	90	22-Nov-16 A	19-Feb-17	Pre-Design - PS#0710 Compliance Project																																	
Engineering Design					19-Jul-17, Engineering Design																																	
PS12952	Engineering Design - PS#0710 Compliance Project	150	20-Feb-17	19-Jul-17	Engineering Design - PS#0710 Compliance Project																																	
Permitting					17-Oct-17, Permitting																																	
PS12962	Permitting - PS#0710 Compliance Project	90	20-Jul-17	17-Oct-17	Permitting - PS#0710 Compliance Project																																	
Procurement					17-Feb-18, Procurement																																	
PS71880	Internal Bid Package Review - PS#0710 Compliance Project	3	18-Oct-17	20-Oct-17	Internal Bid Package Review - PS#0710 Compliance Project																																	
PS34380	Design Documents Sent to Procurement - PS#0710 Compliance Project	0	21-Oct-17		Design Documents Sent to Procurement - PS#0710 Compliance Project																																	
PS34390	Submit/Approve SBD Goals and Request to Advertise - PS#0710 Compliance Project	30	21-Oct-17	19-Nov-17	Submit/Approve SBD Goals and Request to Advertise - PS#0710 Compliance Project																																	
PS34400	Advertise Bid Package - PS#0710 Compliance Project	0	20-Nov-17		Advertise Bid Package - PS#0710 Compliance Project																																	
PS34410	Bid Solicitation Period - PS#0710 Compliance Project	45	20-Nov-17	03-Jan-18	Bid Solicitation Period - PS#0710 Compliance Project																																	
PS34420	Bids Due - PS#0710 Compliance Project	0	04-Jan-18		Bids Due - PS#0710 Compliance Project																																	
PS34430	Bid Review Period - PS#0710 Compliance Project	15	04-Jan-18	18-Jan-18	Bid Review Period - PS#0710 Compliance Project																																	
PS34440	Award Recommendation - PS#0710 Compliance Project	0		18-Jan-18	Award Recommendation - PS#0710 Compliance Project																																	
PS12972	Procurement - PS#0710 Compliance Project	120	21-Oct-17	17-Feb-18	Procurement - PS#0710 Compliance Project																																	
PS34450	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0710 Compliance Project	30	19-Jan-18	17-Feb-18	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0710 Compliance Project																																	
Construction					12-Feb-19, Construction																																	
PS34460	Contractor Notice to Proceed (NTP) - PS#0710 Compliance Project	0	18-Feb-18		Contractor Notice to Proceed (NTP) - PS#0710 Compliance Project																																	
PS12982	Construction - PS#0710 Compliance Project	270	18-Feb-18	14-Nov-18	Construction - PS#0710 Compliance Project																																	
PS12992	Substantial Completion (CD Compliance Date 12/31/18) - PS#0710 Compliance Project	0		14-Nov-18*	Substantial Completion (CD Compliance Date 12/31/18) - PS#0710 Compliance Project																																	
PS41000	Project Closeout - PS#0710 Compliance Project	90	15-Nov-18	12-Feb-19*	Project Closeout - PS#0710 Compliance Project																																	
Project Administration					12-Feb-19, Project Administration																																	
PS35120	WASD Project Administration - PS#0710 Compliance Project	723	20-Feb-17	12-Feb-19	WASD Project Administration - PS#0710 Compliance Project																																	
5.18 (4) Pump Station 0827 Compliance Project					23-Mar-19, 5.18 (4) Pump Station 0827 Compliance Project																																	
Pre-Design					30-Mar-17, Pre-Design																																	
PS20430	Pre-Design - PS#0827 Compliance Project	90	06-Dec-16 A	30-Mar-17	Pre-Design - PS#0827 Compliance Project																																	
Engineering Design					27-Aug-17, Engineering Design																																	
PS13052	Engineering Design - PS#0827 Compliance Project	150	31-Mar-17	27-Aug-17	Engineering Design - PS#0827 Compliance Project																																	
Permitting					25-Nov-17, Permitting																																	
PS13062	Permitting - PS#0827 Compliance Project	90	28-Aug-17	25-Nov-17	Permitting - PS#0827 Compliance Project																																	
Procurement					28-Mar-18, Procurement																																	
PS71890	Internal Bid Package Review - PS#0827 Compliance Project	3	26-Nov-17	28-Nov-17	Internal Bid Package Review - PS#0827 Compliance Project																																	
PS34560	Design Documents Sent to Procurement - PS#0827 Compliance Project	0	29-Nov-17		Design Documents Sent to Procurement - PS#0827 Compliance Project																																	
PS34570	Submit/Approve SBD Goals and Request to Advertise - PS#0827 Compliance Project	30	29-Nov-17	28-Dec-17	Submit/Approve SBD Goals and Request to Advertise - PS#0827 Compliance Project																																	
PS34580	Advertise Bid Package - PS#0827 Compliance Project	0	29-Dec-17		Advertise Bid Package - PS#0827 Compliance Project																																	
PS34590	Bid Solicitation Period - PS#0827 Compliance Project	45	29-Dec-17	11-Feb-18	Bid Solicitation Period - PS#0827 Compliance Project																																	
PS34600	Bids Due - PS#0827 Compliance Project	0	12-Feb-18		Bids Due - PS#0827 Compliance Project																																	
PS34610	Bid Review Period - PS#0827 Compliance Project	15	12-Feb-18	26-Feb-18	Bid Review Period - PS#0827 Compliance Project																																	
PS34620	Award Recommendation - PS#0827 Compliance Project	0		26-Feb-18	Award Recommendation - PS#0827 Compliance Project																																	
PS13072	Procurement - PS#0827 Compliance Project	120	29-Nov-17	28-Mar-18	Procurement - PS#0827 Compliance Project																																	
PS34630	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0827 Compliance Project	30	27-Feb-18	28-Mar-18	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0827 Compliance Project																																	
Construction					23-Mar-19, Construction																																	

Table with columns: Activity ID, Activity Name, Original Duration, Start, Finish, and quarterly breakdowns from 2016 to 2024. Includes sections for 6.0 Supplemental Environmental Project (SEP), 6.1 SEP (Early Phase Work), and 7. Capacity, Management, Operations & Maint. (CMOM) Program.

Activity ID	Activity Name	Original Duration	Start	Finish	Timeline (2016-2024)																																	
					2016				2017				2018				2019				2020				2021				2022				2023				2024	
					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
CM12000	Implementation of Pump Station Remote Monitoring	784	01-Oct-13 A	23-Nov-15 A	Implementation of Pump Station Remote Monitoring																																	
WCTS Model					5480 06-Dec-13 A 06-Dec-28																																	
General Compliance Activity					5480 06-Dec-13 A 06-Dec-28																																	
CM10570	Calibrate WCTS Model and Provide Report	0		06-Dec-18*	◆ Calibrate WCTS Model and Provide Report																																	
CM12010	Update WCTS Model	1858	06-Dec-13 A	06-Jan-19	Update WCTS Model																																	
CM10700	Calibrate WCTS Model and Provide Report	0		06-Dec-23*																																		
CM10810	Calibrate WCTS Model and Provide Report	0		06-Dec-28*	◆ Calibrate WCTS Model and Provide Report																																	
Spare Parts Program					1153 06-Dec-13 A 31-Jan-17																																	
General Compliance Activity					1153 06-Dec-13 A 31-Jan-17																																	
CM10170	Spare Parts Program	1153	06-Dec-13 A	31-Jan-17	Spare Parts Program																																	
Volume Sewer Customer (VSC) Ordinance Program					3100 06-Dec-13 A 01-Jun-22																																	
General Compliance Activity					3100 06-Dec-13 A 01-Jun-22																																	
CM10880	Compliance Submittal Milestone (CD Compliance Date 4/07/14) - VSC Ordinance Program	0		04-Apr-14 A	Compliance Date 4/07/14) - VSC Ordinance Program																																	
CM10010	Amendment to VSC Ordinance to EPA/FDEP	120	06-Dec-13 A	04-Apr-14 A	Amendment to VSC Ordinance to EPA/FDEP																																	
CM10001	Deliverable Placed in the PDR - Amendment to VSC Ordinance	1	04-Apr-14 A	04-Apr-14 A	Deliverable Placed in the PDR - Amendment to VSC Ordinance																																	
CM10140	EPA/FDEP Review/Approval - Changes to VSC Program	60	05-Apr-14 A	03-Jun-14 A	EPA/FDEP Review/Approval - Changes to VSC Program																																	
CM10140D	Pending EPA Review/Approval - Changes to VSC Program	264	04-Jun-14 A	22-Feb-15 A	Pending EPA Review/Approval - Changes to VSC Program																																	
CM10012	Revised Submittal Sent to EPA/FDEP - VSC Ordinance Program	0		23-Feb-15 A	Revised Submittal Sent to EPA/FDEP - VSC Ordinance Program																																	
CM20000	Final EPA/FDEP Review/Approval - Changes to VSC Program	22	24-Feb-15 A	17-Mar-15 A	Final EPA/FDEP Review/Approval - Changes to VSC Program																																	
CM10160	Enact Amendment within 180 days of Approvals	168	18-Mar-15 A	01-Sep-15 A	Enact Amendment within 180 days of Approvals																																	
CM10611	Plan of Compliance Submitted to Miami-Dade by Each VSC	192	02-Sep-15 A	11-Mar-16 A	Plan of Compliance Submitted to Miami-Dade by Each VSC																																	
CM10621	Miami-Dade Review of VSC's Initial Plan of Compliance	230	14-Mar-16 A	31-Dec-16	Miami-Dade Review of VSC's Initial Plan of Compliance																																	
CM11060	VSCs Submit Annual Report Describing Changes Necessary to Update CMOM Program	0		31-Jan-17*	◆ VSCs Submit Annual Report Describing Changes Necessary to Update CMOM Program																																	
CM10631	Each VSC Makes Corrections to Plan of Compliance as Required by Miami-Dade	60	01-Jan-17	01-Mar-17	Each VSC Makes Corrections to Plan of Compliance as Required by Miami-Dade																																	
CM10641	Miami-Dade Review of First Revision to VSC Plan of Compliance	30	02-Mar-17	31-Mar-17	Miami-Dade Review of First Revision to VSC Plan of Compliance																																	
CM11040	Second Revision to VSC Plan of Compliance (If Necessary)	30	01-Apr-17	30-Apr-17	Second Revision to VSC Plan of Compliance (If Necessary)																																	
CM11050	Miami-Dade Review of Second Revision to VSC Plan of Compliance	30	01-May-17	30-May-17	Miami-Dade Review of Second Revision to VSC Plan of Compliance																																	
CM11000	Plan of Compliance Approved - VSC Ordinance Program	0		30-May-17	◆ Plan of Compliance Approved - VSC Ordinance Program																																	
CM10271	Complete SORP Training (VSC)	182	31-May-17	28-Nov-17	Complete SORP Training (VSC)																																	
CM10272	Create Rain Inspection Routes for SORP Plan (VSC)	182	31-May-17	28-Nov-17	Create Rain Inspection Routes for SORP Plan (VSC)																																	
CM10830	Complete Prioritization for Evaluation of Gravity Sewers (VSC)	184	31-May-17	30-Nov-17	Complete Prioritization for Evaluation of Gravity Sewers (VSC)																																	
CM10840	Staffing Requirements for the Collection System O&M are Met (VSC)	184	31-May-17	30-Nov-17	Staffing Requirements for the Collection System O&M are Met (VSC)																																	
CM10850	Complete Listing of Required Pump Station Resource Commitments (VSC)	184	31-May-17	30-Nov-17	Complete Listing of Required Pump Station Resource Commitments (VSC)																																	
CM11020	Complete Assessment and Schedule of Maintenance of FM Easements (VSC)	184	31-May-17	30-Nov-17	Complete Assessment and Schedule of Maintenance of FM Easements (VSC)																																	
CM10870	Complete Assessment of the FMs in the Collection and Transmission System (VSC)	185	31-May-17	01-Dec-17	Complete Assessment of the FMs in the Collection and Transmission System (VSC)																																	
CM11070	VSCs Submit Annual Report Describing Changes Necessary to Update CMOM Program	0		31-Jan-18*	◆ VSCs Submit Annual Report Describing Changes Necessary to Update CMOM Program																																	
CM10101	Complete Long Term Funding Plan for SS Asset Management Program (VSC)	367	31-May-17	01-Jun-18	Complete Long Term Funding Plan for SS Asset Management Program (VSC)																																	
CM10231	Complete GSS Initial Inspections and Identification of Maintenance Needs (VSC)	367	31-May-17	01-Jun-18	Complete GSS Initial Inspections and Identification of Maintenance Needs (VSC)																																	
CM10820	Complete GSS Engineering Evaluation of Required Corrosion Controls (VSC)	367	31-May-17	01-Jun-18	Complete GSS Engineering Evaluation of Required Corrosion Controls (VSC)																																	
CM11100	Complete All Other Staffing Requirements (VSC)	367	31-May-17	01-Jun-18	Complete All Other Staffing Requirements (VSC)																																	
CM11080	VSCs Submit Annual Report Describing Changes Necessary to Update CMOM Program	0		31-Jan-19*	◆ VSCs Submit Annual Report Describing Changes Necessary to Update CMOM Program																																	
CM11090	VSCs Submit Annual Report Describing Changes Necessary to Update CMOM Program	0		31-Jan-20*	◆ VSCs Submit Annual Report Describing Changes Necessary to Update CMOM Program																																	
CM11030	Remedy all FM Deficiencies Discovered in Initial Inspection (VSC)	1828	31-May-17	01-Jun-22	Remedy all FM Deficiencies Discovered in Initial Inspection (VSC)																																	
CM10180	Compliance Subtask Complete - VSC Ordinance Program	0		01-Jun-22	◆ Compliance Subtask Complete - VSC Ordinance Program																																	
Fats, Oils & Grease (FOG) Control Program					5311 06-Dec-13 A 20-Jun-28																																	
General Compliance Activity					5311 06-Dec-13 A 20-Jun-28																																	
CM10070	Revised FOG Control Program to EPA/FDEP	550	06-Dec-13 A	08-Jun-15 A	Revised FOG Control Program to EPA/FDEP																																	
CM10430	Compliance Submittal Milestone (CD Compliance Date 6/8/2015) - FOG Control Program	0		08-Jun-15 A	Compliance Submittal Milestone (CD Compliance Date 6/8/2015) - FOG Control Program																																	
CM10011	Deliverable Placed in the PDR - Revised FOG Control Program	2	08-Jun-15 A	09-Jun-15 A	Deliverable Placed in the PDR - Revised FOG Control Program																																	
CM10250	EPA/FDEP Review/Approval - Revised FOG Control Program	480	09-Jun-15 A	31-Dec-16	EPA/FDEP Review/Approval - Revised FOG Control Program																																	
CM10480	Annual FOG review, evaluation & revisions 2016	20	01-Jan-17*	20-Jan-17	Annual FOG review, evaluation & revisions 2016																																	
CM10530	Annual FOG review, evaluation & revisions 2017	20	01-Jun-17*	20-Jun-17	Annual FOG review, evaluation & revisions 2017																																	
CM10300	Enact Amendment within 180 days of Approvals	180	01-Jan-17	29-Jun-17	Enact Amendment within 180 days of Approvals																																	
CM10890	Compliance Subtask Complete - FOG Control Program	0		29-Jun-17	◆ Compliance Subtask Complete - FOG Control Program																																	
CM10550	Annual FOG review, evaluation & revisions 2018	20	01-Jun-18*	20-Jun-18	Annual FOG review, evaluation & revisions 2018																																	
CM10580	Annual FOG review, evaluation & revisions 2019	20	01-Jun-19*	20-Jun-19	Annual FOG review, evaluation & revisions 2019																																	
CM10600	Annual FOG review, evaluation & revisions 2020	20	01-Jun-20*	20-Jun-20	Annual FOG review, evaluation & revisions 2020																																	
CM10640	Annual FOG review, evaluation & revisions 2021	20	01-Jun-21*	20-Jun-21	Annual FOG review, evaluation & revisions 2021																																	
CM10660	Annual FOG review, evaluation & revisions 2022	20	01-Jun-22*	20-Jun-22	Annual FOG review, evaluation & revisions 2022																																	
CM10680	Annual FOG review, evaluation & revisions 2023	20	01-Jun-23*	20-Jun-23	Annual FOG review, evaluation & revisions 2023																																	
CM10710	Annual FOG review, evaluation & revisions 2024	20	01-Jun-24*	20-Jun-24	Annual FOG review, evaluation & revisions 2024																																	
CM10730	Annual FOG review, evaluation & revisions 2025	20	01-Jun-25*	20-Jun-25	Annual FOG review, evaluation & revisions 2025																																	
CM10750	Annual FOG review, evaluation & revisions 2026	20	01-Jun-26*	20-Jun-26	Annual FOG review, evaluation & revisions 2026																																	
CM10770	Annual FOG review, evaluation & revisions 2027	20	01-Jun-27*	20-Jun-27	Annual FOG review, evaluation & revisions 2027																																	
CM10790	Annual FOG review, evaluation & revisions 2028	20	01-Jun-28*	20-Jun-28	Annual FOG review, evaluation & revisions 2028																																	
Sewer Overflow Response Plan (SORP)					1303 06-Dec-13 A 30-Jun-17																																	
General Compliance Activity					1303 06-Dec-13 A 30-Jun-17																																	
					30-Jun-17, Sewer Overflow Response Plan (SORP)																																	
					30-Jun-17, General Compliance Activity																																	

