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**VIA ELECTRONIC CORRESPONDENCE**

August 1, 2016

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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. 1**

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. 1. The report includes the progress made in implementing the requirements of the aforementioned Consent Decree during the period of time from January 1, 2016 through June 30, 2016. The report also includes the anticipated work to be completed over the next two calendar quarters through December 31, 2016. The county has met all of the Consent Decree requirements for the previous two calendar quarters and is in full compliance with the Consent Decree.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or

persons who manage the system, or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true, accurate 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., LEED® Green Associate  
Assistant Director, Regulatory Compliance and Planning

Attachment: 2016 Semi-Annual Report No. 1

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## **2016 Semi-Annual Report No. 1**

**January 1, 2016 through June 30, 2016**

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**Prepared for**

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

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

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**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

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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
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

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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 (January 1, 2016 through June 30, 2016), and also provides projections for significant projects and activities anticipated to be completed in the next two calendar quarters (July 1, 2016 through December 31, 2016).

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

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

<b>CD Projects, Activities, and Milestones</b>	<b>CD Reference</b>	<b>CD Deadline</b>	<b>Completion or Submittal Date</b>	<b>CD Compliant (Yes/No)</b>
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 Notification of Agreement on Capacity, Management, Operations, and Maintenance (CMOM) Programs Consolidated Schedule of Implementation Activities	Section VI, para 19	N/A	1/19/2016	Yes
Post Notification of Agreement on CMOM Programs Consolidated Schedule of Implementation Activities in PDR	Section V, para 9	1 business day after submittal	1/19/2016	Yes
Submit Response to EPA Letter - October 28, 2015	Section VI, para 19(i)	N/A	1/19/16	Yes
Post Response to EPA Letter - October 28, 2015 in PDR	Section V, para 9	1 business day after submittal	1/20/16	Yes

<b>Table 1-1 Completed CD Projects, Activities, Milestones, and Deliverables</b>				
<b>CD Projects, Activities, and Milestones</b>	<b>CD Reference</b>	<b>CD Deadline</b>	<b>Completion or Submittal Date</b>	<b>CD Compliant (Yes/No)</b>
Submit 2015 Quarterly Report No. 4	Section IX, para 32	2/1/16	1/28/16	Yes
Post 2015 Quarterly Report No. 4 in PDR	Section IX, para 36	1 business day after submittal	1/28/2016	Yes
Submit Response to EPA and FDEP Comments on Financial Assessment Program (FAP)	Section VI, para 19(j)	N/A	1/29/16	Yes
Post Response to EPA and FDEP Comments on Financial Assessment Program (FAP) in PDR	Section V, para 9	1 business day after submittal	1/29/16	Yes
Submit Request for Non-Material Change CD Appendix D CIP 5.2	Section XX, para 82	N/A	2/1/16	Yes
Post Request for Non-Material Change Appendix D CIP 5.2 in PDR	Section V, para 9	1 business day after submittal	2/1/16	Yes
Submit 2015 Semi-Annual Report No. 2	Section IX, para 33	2/1/16	2/1/16	Yes
Post 2015 Semi-Annual Report No. 2 in PDR	Section IX, para 36	1 business day after submittal	2/1/16	Yes
Submit Request for Non-Material Change CD Appendix D CIP 1.06	Section XX, para 82	N/A	2/8/16	Yes
Post Request for Non-Material Change CD Appendix D CIP 1.06 in PDR	Section V, para 9	1 business day after submittal	2/8/16	Yes

<b>Table 1-1 Completed CD Projects, Activities, Milestones, and Deliverables</b>				
<b>CD Projects, Activities, and Milestones</b>	<b>CD Reference</b>	<b>CD Deadline</b>	<b>Completion or Submittal Date</b>	<b>CD Compliant (Yes/No)</b>
Submit Request for Non-Material Change CD Appendix D CIP's 2.14 and 2.15	Section XX, para 82	N/A	2/8/2016	Yes
Post Request for Non-Material Change CD Appendix D CIP's 2.14 and 2.15 in PDR	Section V, para 9	1 business day after submittal	2/8/2016	Yes
Submit Request for Non-Material Change CD Appendix D CIP's 2.12 and 2.13	Section XX, para 82	N/A	2/11/16	Yes
Post Request for Non-Material Change CD Appendix D CIP's 2.12 and 2.13 in PDR	Section V, para 9	1 business day after submittal	2/11/16	Yes
Submit 2015 Annual Report	Section IX, para 34	3/1/16	3/1/16	Yes
Post 2015 Annual Report	Section IX, para 33	1 business day after submittal	3/1/16	Yes
Submit SOP for Calculating Recovered SSO Volume	Section X, para 50	N/A	3/11/2016	Yes
Post Standard Operating Procedure (SOP) for Calculating Recovered SSO Volume in PDR	Section V, para 9	1 business day after submittal	3/11/2016	Yes
Submit CMOM Programs Consolidated Implementation Schedule	Section VI, para 19	N/A	3/31/16	Yes
Post CMOM Programs Consolidated Implementation Schedule in PDR	Section V, para 9	1 business day after submittal	3/31/16	Yes

<b>CD Projects, Activities, and Milestones</b>	<b>CD Reference</b>	<b>CD Deadline</b>	<b>Completion or Submittal Date</b>	<b>CD Compliant (Yes/No)</b>
Submit 2016 Request for Modification to Interim Milestones Report No. 1	Section VI, para 19(i) Section XX, para 82	N/A	4/4/16	Yes
Post 2016 Request for Modification to Interim Milestones Report No.1 in PDR	Section V, para 9	1 business day after submittal	4/4/16	Yes
Submit 2016 Quarterly Report No. 1	Section IX, para 32	5/2/16	4/29/16	Yes
Post 2016 Quarterly Report No. 1 in PDR	Section V, para 9	1 business day after submittal	4/29/16	Yes
Submit Request for Non-Material Change CD Appendix D CIP 2.15	Section VI, para 19(i) Section XX, para 82	N/A	5/13/16	Yes
Post Request for Non-Material Change CD Appendix D CIP 2.15 in PDR	Section V, para 9	1 business day after submittal	5/13/16	Yes
Submit 2016 Request for Modifications of Non-Material Changes to Interim Milestones Report No. 2	Section VI, para 19(i) Section XX, para 82	N/A	6/3/16	Yes
Post 2016 Request for Modifications of Non-Material Changes to Interim Milestones Report No. 2 in PDR	Section V, para 9	1 business day after submittal	6/3/16	Yes

<b>CD Projects, Activities, and Milestones</b>	<b>CD Reference</b>	<b>CD Deadline</b>	<b>Anticipated Completion or Submittal Date</b>
Submit 2015 Quarterly Report No. 2	Section IX, para 32	8/1/16	8/1/16

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

Post 2015 Quarterly Report No. 2 in PDR	Section IX, para 36	1 business day after submittal	1 business day after submittal
Submit 2016 Semi-Annual Report No.1	Section IX, para 33	8/1/16	8/1/16
Post 2016 Semi-Annual Report No.1	Section IX, para 36	1 business day after submittal	1 business day after submittal
Submit 2016 Quarterly Report No. 3	Section IX, para 32	10/31/16	10/31/16
Post 2016 Quarterly Report No. 3 in PDR	Section IX, para 36	1 business day after submittal	1 business day after submittal

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

**Table 1-3 Issues Log**

Item	Date	Description	Resolution/Clarification/Decision
1	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 WASD’s intention to initiate, when applicable, to perform the calculation or estimation of recovered SSO volume. WASD 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.
2	7/16/15	During the July 16, 2015 CD Program Monthly Progress Meeting with EPA and FDEP, WASD proposed an alternate approach: Vacuum Pressure Swing Adsorption (VPSA technology) to be used in place of cryogenic oxygen generation for CD Appendix D-2 CIP 2.27.	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 2.27 on October 2, 2015. On February 9, 2016, WASD received EPA and FDEP approval.

**Table 1-3 Issues Log**

<b>Item</b>	<b>Date</b>	<b>Description</b>	<b>Resolution/Clarification/Decision</b>
3	7/16/15	During the July 16, 2015 CD Program Monthly Progress Meeting with EPA and FDEP, WASD proposed an alternate design approach to CD Supplemental Environmental Project SEP.	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 SEP on October 16, 2015. On February 23, 2016 WASD received EPA and FDEP approval.
4	7/16/15	EPA/FDEP requested confirmation that the total fees for the properties and businesses serviced are not being used to offset the CD required \$2,047,200 cost to implement the proposed alternate design approach to CD SEP.	WASD confirmed that the total fees for the properties and businesses serviced are not being used to offset the CD required \$2,047,200 cost to implement the proposed alternate design approach to CD SEP in their Request for Non-Material Change of the SEP letter sent to EPA/FDEP on October 16, 2015. On February 23, 2016 WASD received EPA and FDEP approval.
5	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. During 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. During 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**

<b>Item</b>	<b>Date</b>	<b>Description</b>	<b>Resolution/Clarification/Decision</b>
6	12/04/15	During the December 4, 2015 CD Program Monthly Progress Meeting with EPA and FDEP, WASD proposed the modification to the scope of PS 0691 project, based on the city constructing a new pump station. Homestead is considering mandated projects (CD CIP 5.2) upon completion of the City of Homestead's new Pump Station 0001. The new pump station, being designed and built by the City of Homestead, will eliminate the need for PS 0691 to act as a booster for excess Homestead flows. The new pump station will discharge directly in the existing 42-inch force main currently being used by PS 0691.	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 5.2 on February 1, 2016. On April 19, 2016 WASD received EPA and FDEP approval.
7	12/04/15	During 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 Wastewater Treatment Plant (CDWWTP), 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.	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. Final decision still pending on both CIPs.

**Table 1-3 Issues Log**

<b>Item</b>	<b>Date</b>	<b>Description</b>	<b>Resolution/Clarification/Decision</b>
8	12/04/15	During the December 4, 2015 CD Program Monthly Progress Meeting with EPA and FDEP, WASD presented reasons for the modification of CD South District WWTP CIP 1.07 description. They requested approval to use Clusters 1 and 2 for stabilization and Cluster 3 for sludge storage. Due to improvements in thickening systems as a result of CD 1.06/1.08 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.	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 the CD description for CD Appendix D CIP 1.07 Digesters and Control Buildings was general in statement regarding rehabilitation or replacement of digester components, control buildings and sludge mixers improvements. It did not specify number of digesters. Thus no request for modification to CD Appendix D CIP 1.07 will be submitted to EPA and FDEP.
9	12/04/15	During 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. Final decision still pending.
10	12/04/15	During 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 CIP 5.2 on February 1, 2016. Final decision still pending.

## 2.0 Introduction

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### 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**

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### **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 authorized a Design Consultant to perform Engineering Design for the overall SEP Consent Decree Project (i.e., CD Project 6.00) consisting of approximately 7,200 linear feet of new gravity sewer main, and a 30% Design has been submitted for review. Also, WASD oversaw construction and substantial completion of a Contractor for the SEP Phase 1A demonstration project (i.e., CD Project 6.01) involving installation of approximately 600 linear feet of new gravity sewer main.

In the next two calendar quarters, WASD will finalize Engineering Design for the overall SEP CD Project 6.00, and initiate permitting. The SEP is currently on schedule to meet the CD compliance deadlines for design and construction completion.

## 4.0 Additional Information

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

### 4.1 State's Ocean Outfall Legislation (OOL)

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

The EPA, FDEP and the County acknowledge that the County's implementation of the Ocean Outfall Legislation may impact the scope of scheduling of certain capital improvement projects identified in 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 CD as set forth in Section XX (Modification).

During the reporting period, no issues were identified that impacted the scope of scheduling of capital improvement projects.

## Appendix A Work Progress Tables

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

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
18(a)	Adequate Pumping, Transmission and Treatment Capacity 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"> <li>1. Monitored and tracking the monthly submittal of the Elapsed Time (ET) readings by each Volume Sewer Customer Utility.</li> <li>2. Placed under Moratorium those pump stations that exceeded the maximum 10 hours pursuant to the Nominal Average Pump Operating Time (NAPOT).</li> <li>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).</li> <li>4. Completed monthly reports for the Certification of Nominal Average Pump Operating Time (NAPOT) for each Volume Sewer Customer Utility.</li> <li>5. Sent copies of the Certification of Nominal Average Pump Operating Time (NAPOT) to each Volume Sewer Customer Utility.</li> </ol>	<ol style="list-style-type: none"> <li>1. Continue Monitoring and Tracking of monthly ET submittals.</li> <li>2. Automatic and/or Manual placement in moratorium those pump stations that fail to submit ET readings for one or all of the pumps within the station.</li> <li>3. Automatic and/or Manual placement in moratorium those VSC utilities that fail to submit the ET readings on time.</li> <li>4. Continue generating monthly reports NAPOT reports and copy each corresponding Utility.</li> <li>5. Update ET program to automatically change moratorium status for missing or duplicate readings.</li> <li>6. Develop ET program upgrade to allow entry of "all pump on" run times/hours.</li> <li>7. Develop ET program upgrade to capture run times/hours between 12 am and 5 am.</li> </ol>
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 December 31, 2016.

**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>Completed hydraulic modeling analysis to provide evaluation of impact from proposed modifications, upgrades and expansions to the WCTS within each CD project deadline: 5.17(1), 5.17(2), 5.17(3), 5.17(4), 5.8, 5.12, 4.10, 5.11 in addition to the validation of pump equipment selection for CD Projects 5.04, 5.05, 5.06 and 5.07. Completed development of Model and GIS integration procedures according to Paragraph 18(c)(iv). In addition, a comprehensive file structure was designed to host all hydraulic modeling related files and documentation. Continued efforts to incorporate private PS flows into the Model according to Paragraph 18(c)(ii). Completed the development of a Model Calibration Plan according to Paragraph 18(c)(iv). This Calibration Plan will be implemented throughout the following year in order to achieve the calibration of WASD WCTS Hydraulic Model. Completed update of Gravity Sewer elevations for Major Gravity Sewer Lines as defined in Paragraphs 18(c)(iii) and 18(c)(iv). 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>Complete update of WCTS Hydraulic Model network geometry in order to match the current conditions of the system, these updates include latest information. Updates include the following:</p> <ul style="list-style-type: none"> <li>• Addition of Private Pump Stations</li> <li>• Update Node and Flood Types</li> <li>• Update Ground Levels</li> <li>• Update Floodable Area</li> <li>• Update Solution Model Type</li> <li>• Update Pump Station Information</li> </ul> <p>Maintain coordination with Ocean Outfall Legislation Projects for timely updating of projects into hydraulic model. Complete hydraulic analysis of CD Projects 5.18(1), 5.18(2), 5.18(3), 5.18(4), 5.18(5) and 5.18(6). Complete 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 include:</p> <ul style="list-style-type: none"> <li>• Selection of Calibration Events</li> <li>• Determination of Flows</li> <li>• SCADA data compilation for comparison with model results.</li> <li>• Development of RTC for selected calibration events.</li> <li>• Development of Flow Monitoring Plan.</li> </ul> <p>Complete Model/GIS element crosswalk.</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 December 31, 2016.</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.	<ul style="list-style-type: none"> <li>• Reviewed SSO reports from all VSCs.</li> <li>• Placed moratoriums within the PS basin when required by Chapter 24</li> <li>• RER-DERM received 2015-CMOM Annual Reports from all VSCs.</li> <li>• RER-DERM received Electronic GIS Sanitary Sewer Atlas from all VSCs.</li> <li>• RER-DERM received Sanitary Sewer Evaluation Annual Report Update from all VSCs.</li> </ul>	<p>VSC's Sewer Atlas are due to RER-DERM on January 6, 2016. VSC's Plan of Compliance are due to RER-DERM on March 11, 2016.</p> <ul style="list-style-type: none"> <li>• RER-DERM will continue reviewing the multiple reports received from the VSCs.</li> <li>• RER-DERM will continue testing the Electronic Sanitary Sewer GIS Atlas submitted by all VSCs.</li> <li>• RER-DERM will verify that the Electronic Sanitary Sewer GIS Atlas meets all requirements of Chapter 24 of the Miami-Dade Code.</li> </ul>

**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	<p>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>	<ol style="list-style-type: none"> <li>1. Developed new FOG Control Technician Training Program, including class and field time.</li> <li>2. Hired four (4) new FOG Control Technicians and one (1) FOG Inspector.</li> <li>3. Developed and deployed "Did You Know" flyers. Flyers are being distributed by DERM Plan Review, FOG Technicians/Inspectors, and Liquid Waste Transporters.</li> <li>4. Submit Continuing Education Credits (CEC) Course titled "Fats, Oils &amp; Grease Control Device Design, Operation &amp; Maintenance" to Florida Board of Professional Engineers.</li> <li>5. Continued FOG Outreach Program, including workshops:               <ol style="list-style-type: none"> <li>a. Liquid Waste Transporters (LWTs), January 11, 2016.</li> <li>b. FOG Control Device Design, Operation &amp; Maintenance, March 9, 2016. Included 4 CEC for FL PEs.</li> <li>c. FOG Control Program Update (eManifest Demonstration).</li> <li>d. June 2016, One-on One eManifest input form LWT.</li> </ol> </li> <li>6. Developed conceptual electronic manifest (eManifest) system. Coordinate with WASD and Pompano/Broward to receive monthly hauled waste disposal data.</li> <li>7. Receive monthly hauled waste disposal data from Pompano/Broward.</li> <li>8. Performed training for Plumbing Departments reviewing FOG Control Devices.</li> </ol>	<ol style="list-style-type: none"> <li>1. Establish FOG Round Table to include all stakeholders.</li> <li>2. Continue FOG Outreach Program:               <ol style="list-style-type: none"> <li>a. develop and distribute updated FOG Control Program "Did You Know" outreach flyer to be provided to (1) Certificate of Use/Municipal Occupational License applicants that generate FOG, (2) Liquid Waste Transporters and (3) post on web (see attached).</li> <li>b. eManifest Rollout                   <ol style="list-style-type: none"> <li>i. Food Service Establishment / Grease Discharge Operations (FSE/GDO)                       <ol style="list-style-type: none"> <li>1. August 2016: Flyer Distributed by LWTs, Plan Review &amp; Inspectors and Posted on DERM FOG Website.</li> <li>2. September 2016: Training Flyer Mailed to all FSEs/GDOs. Training in October 2016: South, Central, North.</li> <li>3. November/December 2016: Renewal includes Flyer/Insert</li> <li>4. January 2017: FSEs/GDOs start reporting with eManifest.</li> </ol> </li> <li>ii. Liquid Waste transporters (LWT)                       <ol style="list-style-type: none"> <li>1. June 2016: One-on-one with LWT.</li> <li>2. August 2016: Flyers Emailed. Flyer includes Training/Training Dates.</li> <li>3. September 2016: Training at SDWWTP.</li> <li>4. January 2016: LWTs can start reporting on eManifest (and not submit reports in paper form – Incentive).</li> <li>5. January/February 2017: Renewal Includes Flyer/Insert.</li> <li>6. April 2017: LWTs reporting with eManifest.</li> </ol> </li> </ol> </li> </ol> </li> <li>3. Update FOG Control Device Design Guidance form FOG1.5 to FOG1.75.</li> <li>4. WASD to provide hauled waste disposal data.</li> <li>5. Implement Phase 1 of eManifest if hauled waste disposal data received by August 2016.</li> <li>6. Implement no-comingling requirements.</li> </ol>

**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	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.	The Program document was finalized and submitted to the EPA/FDEP on July 2, 2015 ahead of the CD compliance date July 6, 2015.	Program is pending EPA and FDEP approval. Work on the program will be ongoing and will continue beyond December 31, 2016.
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 December 31, 2016.

**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	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.	Data entry process improvements continued. GIS activities included: Completion of 193 Sewer projects: 72 miles of pipe modified or added; 3142 above ground assets modified or added. Completion of 417 Water projects: 192 miles of pipe modified or added; 9767 above ground assets modified or added. Continued manhole rim elevation and gravity invert elevation data capture project. Started Simplification of the AASIS process to facilitate wider usage.	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: <ol style="list-style-type: none"> <li>1. GIS Training Refresher Program.</li> <li>2. GIS to Hydraulic Model Interface.</li> </ol> Continue collecting elevation of manhole rims and pipe inverts and their inclusion into GIS. The following tasks should also begin: <ol style="list-style-type: none"> <li>1. Streamlining the manual as-built to GIS process to satisfy 90 day requirement</li> <li>2. GIS to Hydraulic Model Integration to satisfy 90 day requirement from GIS to Model</li> <li>3. GIS Training Refresher Program</li> <li>4. Electronic As-Built Submittal</li> </ol> Program is pending EPA and FDEP approval. Work on the program will be ongoing and will continue beyond December 31, 2016.
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 December 31, 2016.
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. Work on the program was ongoing.	Program is pending EPA and FDEP approval. Work on the program will be ongoing and will continue beyond December 31, 2016.

**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.	The Pump Station Operations and Preventative Maintenance Program document was submitted to EPA/FDEP on April 2, 2015, ahead of compliance date April 6, 2015. Comments from the EPA/FDEP on the Program were received on June 30, 2016. Program is pending EPA/FDEP approval.	Program is pending EPA and FDEP approval. Work on the program will be ongoing and will continue beyond December 31, 2016.
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 December 31, 2016.

**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.	The Program document was finalized and submitted to the EPA/FDEP on the CD compliance date May 6, 2015.	Program is pending EPA and FDEP approval. Work on the programs will be ongoing and will continue beyond December 31, 2016.
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 December 31, 2016.

**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 continued. Construction Rehab of Grit #1 (Screens #2) & Grit #2 (Screen #4) completed.	Procurement will continue. Construction Rehab of Grit #1 (Screens #3) & Grit #2 (Screen #3) will commence.
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.	Design continued. Permitting commenced. Construction of Oil/Water separator commenced and completed.	Design and permitting will be completed. Procurement will commence.
1.3	Oxygenation Trains	The SDWWTP Oxygen Trains project will be performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to retrofit aeration mixers and rehabilitate and apply surface coating to the structure. This project was split into two child projects; (1) for the structural rehab of the trains and for the mixer upgrades, and (2) for the electrical building expansions.	Plant staff rehabilitated Train 1, ahead of schedule, because of deteriorating conditions. Construction was completed on January 8, 2016 ahead of the CD compliance date November 17, 2024. Construction of Train 7 commenced. Design of Electrical Building Expansion commenced.	Design will commence for Train 7. Construction for Train 7 will be completed. Design will continue for 1.3(2) Electrical Building Expansion.

**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.	No activities milestone scheduled.
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: the electrical equipment associated with pumps 7,8 and 9; structural rehabilitation of the effluent pump wet wells; and the building improvements and equipment for the remaining pumps respectively.	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.	Design continued. Permitting and procurement commenced.	Design will be completed. 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 continued. Permitting and procurement commenced.	Design will be completed. Permitting 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.	Design was completed on January 9, 2016 ahead of the CD compliance date February 16, 2016. Permitting continued.	Permitting will be completed. Procurement will commence and 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 for Expansion of Main Switchgear A & B was completed on February 17, 2016.	Design and 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
1.12	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 and procurement continued. Procurement of Actuators completed. Construction of Actuators commenced.	Design, procurement and construction will continue. Design Contact Chamber #4 will commence and be completed. Procurement for Sluice Gates will commence and be completed. Procurement for Contact Chamber #4 will commence. Construction for Actuators will be completed. Construction of Sluice Gates will commence.

**Table A-3.2 Central District WWTP Capital Improvement Projects**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
2.1	Electrical Improvements	<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"> <li>1) CDWWTP General Electric In-house Construction - Substations 1, 2, 7A, 8A, 9A &amp; 10A</li> <li>2) Substations 3, 4A, 4B, 5 &amp; 6 – This work is part of Project 2.27.</li> <li>3) Substations 9 &amp; 10 - This work is part of Project 2.10.</li> <li>4) Substations 11 &amp; 12 – This work is part of project 2.11.</li> <li>5) Substations 15 &amp; 16 – This work is part of Project 2.15.</li> <li>6) Substations 17 &amp; 18 – This work is part of Project 2.19.</li> </ol>	<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 &amp; 2 Completed on May 5, 2016.</p>	<p>Design, permitting, procurement and construction will continue.</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>Design was completed. Permitting, procurement and construction continued.</p>	<p>Permitting and procurement will be completed. 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>Design was completed. Permitting commenced. Procurement and construction continued.</p>	<p>Permitting will be completed. Procurement and 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.	Design was completed on January 28, 2016 ahead of the CD compliance date of February 19, 2016. Permitting commenced. Procurement and construction continued. Installation of Manhole and cleanout of 84" pipe was completed on May 11, 2016.	Permitting will be completed. 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
2.5	Oxygenation Trains Plant 1	<p>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.</p> <p>Mixer retrofits were completed in early 2014.</p>	<p>Engineering design for Trains in Plant 1 continued. Procurement for Trains in Plant 1 continued. Construction continued.</p>	<p>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. Rehabilitation Design of Train #2 Plant1 will commence and be completed. Procurement for Train #2 Plant 1 will commence. 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
2.6	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 commenced. Installation of Mixers Train #1 plant 2 was completed. Structural Rehab of Train #3 Plant 2 was completed. Procurement Oxygenation Trains Plant 2 continued.	Structural rehabilitation for train #1 Plant 2 will continue. Procurement for Oxygenation Trains Plant 2 will continue.
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.	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 (BODR ongoing).	Design will continue. Permitting will commence.
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.	No activities milestone scheduled.
2.10	RS Pump Stations Plant 2	The CDWWTP RS Pump Stations Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of return sludge pump, piping, motor control centers and structural repairs to the pump stations.	Design continued. Permitting, procurement and construction commenced.	Design, permitting, 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
2.11	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 commenced	Design will continue.
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.	Design continued. Permitting and procurement commenced.	Design will be completed. Permitting and 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 continued. Permitting and procurement commenced	Design will be completed. Permitting and procurement will continue.
2.14	Digesters Plant 1	The CDWWTP Digesters Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the complete rehabilitation of sludge digester clusters, i.e. roofs, concrete structures, recirculation and transfer pumps, mixers, and electrical pumps. This will prevent the loss of digestion capacity and the decline in biogas/methane production for power generation. In addition, it will decrease the amount of unstable sludge that will require landfill disposal.	In validation/planning stage.	No activities milestone scheduled.

**Table A-3.2 Central District WWTP Capital Improvement Projects**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
2.15	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.	Cluster 1: Permitting continued. Procurement Commenced. Construction continued. Cluster 2: Design continued. Cluster 3: Design commenced. Cluster 4: Design continued.	Cluster 1: Permitting will be completed. Procurement will be completed. Construction will continue. Cluster 2: Design will be completed. Permitting and procurement will commence. Cluster 3: Design will continue. Cluster 4: Design will be completed. Permitting will commence.
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 continued. Permitting and procurement commenced.	Design will be completed. Permitting and procurement will continue.
2.17	Chlorination Facilities	The CDWWTP Chlorination Facilities project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the design and construction of a new bulk sodium hypochlorite storage and dosing system in separate outdoor structures to replace the existing chlorine gas system.	Design continued. Permitting was completed. Procurement continued. Construction commenced.	Design will be completed. 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
2.18	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>	Design continued. Permitting and procurement commenced.	Design will be completed. Permitting and procurement will continue. Construction will commence.
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, permitting, procurement, and construction continued. Generator replacement was completed on January 27, 2016.	Design, permitting, 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
2.20	Septage Uploading	The CDWWTP Septage Unloading project is required under Paragraph 19(i) and Appendix D. The CD scope of this project included the construction of a new septage handling station to remove FOG from the main wastewater treatment stream and treat either through digestion or an off-site third part facility. However, the violation associated with this project was resolved by requiring all hauled waste to be sent to the South District WWTP as of January 2013.	In lieu of constructing improvements to the CDWWTP Septage Unloading facilities, WASD discontinued the process of receiving septage at the CDWWTP and has shut down the Septage Unloading facilities. Septage has been diverted to the SDWWTP as of January 2013 ahead of the CD compliance date June 3, 2022.	N/A
2.21	Pump Station 1	The CDWWTP Pump Station No. 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to rehabilitate the pump station for the odor control system and rehabilitate the bar screen mechanisms.	Design continued. Permitting commenced.	Design and permitting will continue.
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.	Design was completed. Permitting and procurement commenced.	Permitting will be completed. Procurement will continue. Construction will commence.
2.23	O <sub>2</sub> Plant Process Controls Phase 2	The CDWWTP O <sub>2</sub> 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. Project closeout commenced.	Project closeout will be completed.

**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
2.24	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.	Permitting was completed. Procurement commenced.	Procurement will be completed. Construction will commence.
2.25	Ventilation Improvements	The CDWWTP Ventilation Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to improve ventilation in hazardous areas. This project schedule has been broken down into multiple components to more accurately reflect the way the work is being executed: 1) WASD 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 and permitting continued. Procurement commenced.	Design, permitting and procurement will continue. Construction will commence.
2.26	Rehabilitation of Walkways and Stairways	The CDWWTP Rehabilitation of Walkways and Stairways project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of corroded walkways, stairways, railings, grating throughout the plant.	Work is being performed by in-house WASD resources. Construction continued.	Construction will continue.
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 continue. Permitting 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.	Procurement and construction Phase 1 and Phase 2 continued.	Procurement Phase 1 and Phase 2 will be completed. Construction Phase 1 and 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.
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.	In validation/planning stage.	Design will commence.

**Table A-3.3 North District WWTP Capital Improvement Projects**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
3.5	Secondary Clarifiers	The NDWWTP Secondary Clarifiers project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of the structure of the secondary clarifiers and its mechanical and electrical systems.	Design, procurement and construction continued. Clarifier mechanisms #3, 6, and 8, replacement have been completed.	Design, procurement and construction will continue. Permitting will commence. Mechanisms #1-10 replacement will be completed.
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 continued.	Design will be completed. Permitting and 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 commenced. Construction continued.	Construction will continue. Construction of DIW will Commence.

**Table A-3.3 North District WWTP Capital Improvement Projects**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
3.8	Plant Wide Electrical	<p>The NDWWTP Plant Wide Electrical project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation and replacement of electrical controls and wiring as needed at the NDWWTP. This project schedule has been broken down into multiple child/sub projects to better reflect the way the work is being executed:</p> <p>1) NDWWTP General Electrical In House Construction                      Feeders 1 and 2 have been replaced.                      Feeders 9-14 are related to a new future electrical building and are pending WASD's decision to construct this new building.</p> <p>2) Electrical Feeders 3-6                      Feeders 3-6 will be replaced in conjunction with Project 3.01.</p> <p>3) Electrical Feeders 7-8                      Feeders 7 and 8 will be replaced along with Project 3.04.</p>	Procurement and construction continued. Construction Feeder Segments 1 & 2 completed.	Procurement and construction will continue.
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.	Procurement was completed. Construction continued.	Construction will be completed.
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.	Construction continued. Rehab 2nd 84" Pipe - ND Yard Piping Replacement substantially completed. Project closeout commenced.	Project closeout will be completed.
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.	This project is being performed under design-build delivery method. Phase 3: Construction continued.	Construction will be completed. Project closeout will commence and be completed.

**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 05, 2016 ahead of the CD compliance date of March 5, 2018. Project closeout commenced.	Project closeout will be completed.
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 continued. Permitting was completed. Procurement commenced.	Design will continue. Procurement will be completed. Construction will commence.
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. project	Project closeout will be completed.

**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>	<p>Design continued. Procurement commenced.</p>	<p>Design will be completed. Procurement will continue. Construction will commence.</p>
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>	<p>Design, permitting, procurement and construction continued.</p>	<p>Design, permitting, procurement and construction will continue.</p>
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 &amp; 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>	<p>Design completed. Permitting completed. Procurement commenced.</p>	<p>Design will be completed. Permitting and procurement will continue. Construction will commence.</p>

**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.	Procurement was completed. Construction commenced (Contractor NTP issued).	Construction will continue.
3	6	PS 356	NW 53 Ct. & NW 195 Dr.	This project was completed on August 11, 2014.	N/A
4	8	NW 53 Ct. & NW 195 Dr.	NW 52 Ct. & NW 191 Dr.	This project was completed on August 11, 2014.	N/A
5	10	NW 52 Ct. & NW 191 St.	NW 52 Ct. & NW 188 Dr.	This project was completed on August 11, 2014.	N/A
6	6	PS 362	NW 52 Ct. & NW 190 Dr.	Permitting was completed. Procurement commenced.	Procurement will be completed. Construction will commence.
7	10	NW 52 Ct. & NW 190 St.	NW 52 Ave. & NW 189 Ter.	Permitting was completed. Procurement commenced.	Procurement will be completed. Construction will commence.
8	10	NW 52 Ct. & NW 188 St.	NW 52 Ave. & NW 183 St.	This project was completed on August 11, 2014.	N/A
9	8	PS 385	NW 29 Ct. & NW 199 St.	This project was 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.	Procurement was completed. Construction commenced (Contractor NTP issued).	Construction will continue.
21	10	NW 42 Pl. & NW 199 Ter.	NW 39 Ct. & NW 199 St.	Procurement was completed. Construction commenced (Contractor NTP issued).	Construction will continue.
22	6	PS 358	PS 352	Procurement was completed.	Construction will commence.
23	8	PS 1022	PS 1072	Design continued.	Design will be completed. Permitting will commence and be completed. Procurement will commence.
24	8	PS 353	NW 48 Ct. & NW 178 Ter.	Design was completed. Permitting and procurement were commenced and completed.	Construction will commence.
25	10	NW 52 Ave. & NW 173 Dr.	NW 52 Ave. & NW 178 Ter.	Procurement continued.	Procurement will be completed. Construction will commence.
26	6	PS 354	NW 52 Ave. & NW 173 Dr.	Procurement continued.	Procurement will be completed. Construction will commence.

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

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
27	4	Pvt. PS @ SW 149 Ter.	MH 14 @ PS 719	Design continued.	Design will be completed. Construction (and project closeout) will commence and be completed.
28	8	PS 786	MH 5 @ PS 785	Design commenced	Design will be completed. Permitting will commence.
29	12	PS 811	SW 107 Ave. & SW 76 St.	Permitting commenced.	Permitting will be completed. Procurement will commence and be completed. Construction will commence.
30	12	PS 811	SW 102 Ave. & SW 81 St.	Permitting commenced.	Permitting will be completed. Procurement will commence and be completed. Construction will commence.
31	10	PS 812	SW 102 Ave. & SW 84 St.	Permitting commenced.	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 continued.	Procurement will be completed. Construction will commence.
33	4	Pvt. PS @ 114 Ave. & SW 169 St.	MH 59 @ SW 103 Ave.	Design and permitting were commenced and completed.	Construction will commence.
34	10	PS 709	Homestead Ave. & Kumquat St.	Design continued.	Design will continue.
35	6	SW 110 Ave. & Banyan St.	SW 95 Ave. & SW Banyan St.	Design continued.	Design will continue.
36	4	PS 721	US1 & Banyan St.	Design continued.	Design will continue.
37	4	PS 749	PS 731	Design continued.	Design will continue.
38	4	PS 747	US1 & East Indigo St.	Design continued.	Design will continue.
39	10	SW 102 Ave. & SW 176 St.	Homestead Ave. & West Jessamine	Design continued.	Design 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
40	8	PS 745	SW 102 Ave. & SW 175 St.	Design continued.	Design will continue.
41	4	PS 731	SW Duval Ave. & West Indigo St.	Design continued.	Design will continue.
42	10	SW 102 Ave. & West Jessamine	US1 & SW 184 St.	Design continued.	Design will continue.
43	12	Homestead Ave. & 180 St.	Railroad St. & SW 184 St.	Design continued.	Design will continue.
44	8	PS 810	SW 118 Pl. & SW 72 St.	Design commenced.	Design will be completed. Permitting will commence.
45	12	PS 793	SW 118 Pl. & SW 72 St.	Design commenced.	Design will be completed. Permitting will commence.
46	6	PS 724	SW 106 Ave. & SW 155 St.	Design continued.	Design will be completed. Permitting and procurement will commence.
47	8	PS 869	SW 122 Ave. & SW 88 St.	Procurement was completed.	Construction will commence.
48	10	PS 1017	SW 123 Pl. & SW 268 St.	Design continued.	Design will be completed. Permitting and procurement will commence.
49	10	PS 1029	SW 132 Ave. & 268 St.	Design continued.	Design will be completed. Permitting and procurement will commence.
50	8	SW 137 Ave. & SW 268 St.	SW 128 Ave. & 268 St.	Design continued.	Design will be completed. Permitting and procurement will commence.
51	10	PS 1028	SW 137 Ave. & 288 St.	Design continued.	Design will be completed. Permitting and procurement will commence.

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

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

**Table A-5.1 Sewer Pump Station Systems**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
5.1	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.	Procurement was completed. Construction commenced.	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 continued.	Design will be completed. Permitting will commence and 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).	Design was completed. Permitting commenced.	Permitting will be completed. Procurement will commence.
5.5	Replacement of Switchgear and Rehabilitation of Wet Well PS No. 0415	The Replacement of Switchgear and Rehabilitation of Wet Well PS No. 0415 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing pump station equipment has reached the end of its useful life and the wet well structure is badly deteriorated due to H <sub>2</sub> 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.	Design was completed. Permitting commenced.	Permitting will be completed. Procurement 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
5.6	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.	Design was completed. Permitting commenced.	Permitting will be completed. Procurement 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 <sub>2</sub> 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.	Design was completed. Permitting commenced.	Permitting will be completed. Procurement 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.	Permitting completed. Procurement commenced.	Procurement will be completed. Construction will commence.
5.9	Replacement of Pumping and Electrical Equipment PS No. 0301	The Replacement of Pumping and Electrical Equipment PS No. 0301 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing 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.	Design was completed. Permitting commenced.	Permitting will be completed. Procurement 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.	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
5.11	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 commenced.	Permitting will be completed. Procurement will commence.
5.12	Replacement of Switchgear PS No. 0187	The Replacement of Switchgear PS No. 0187 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing 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 continued. Procurement commenced.	Permitting will be completed. Procurement will continue. 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

**Table A-5.1 Sewer Pump Station Systems**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
5.14	Upgrade of PSs Nos. 0086 and 0492	The Upgrade of Pump Stations No. 0086 and 0492 project was performed and completed pursuant to Paragraph 19(i) and Appendix D. The project was designed to increase reliability and extend the service life of the pump station. The pump stations also exceeded the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. For this project, Pump Station No. 0086 was converted to a submersible type pump station with an existing wet well and the electrical controls and instrumentation were upgraded. The electrical controls and instrumentation for Pump Station No. 0492 were upgraded. It was also rehabilitated to a new submersible type pump station.	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	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.	This project was completed on December 30, 2015 ahead of the CD compliance date December 31, 2015.	N/A
5.16	Upgrade of PSs Nos.0198, 0437, 0466, 0680	The Upgrade of PSs No. 0198, 0437, 0466, 0680 project is being performed pursuant to Paragraph 19(i) and Appendix D. These pump stations exceed the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. The PS #0198 is being upgraded to include new submersible pumps in a new triplex wet well, an electrical upgrade and flow isolation. PS #0437 is being upgraded to include new dry pit submersible pumps, replacement of roughly 100 linear feet of 10" force main to the street connection, and electrical upgrades. PS#0466 is being upgraded to include refurbishment of the existing wet well and repairs to pipes and valves. PS #0680 is being upgraded to include new submersible pumps, new valve box, electrical upgrades and a new generator with sub-base tank.	Procurement was completed. Construction commenced. PS#0198: Contractor NTP was issued April 18, 2016 and construction is ongoing. PS#0437: Contractor NTP was issued May 2, 2016 and construction is ongoing. PS#0680: Contractor NTP was issued on April 18, 2016 and construction is ongoing.	Construction will be completed. Project closeout will commence. PS#0466: Contractor NTP is scheduled for July 11, 2016.

**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: Currently in the 90% design stage. PS#0351: Currently in the 90% design stage. PS#0370: Currently in the 90% design stage. PS#0403: Currently in the 30% design stage.	Design will be completed. Permitting and procurement 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
5.18	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.	In validation/planning stage.	Work is scheduled to start in late 2016. Design will commence.
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

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Activity Name	Start	Finish	2016											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

**WASD Consent Decree Schedule - June 2016 Update**

**0. General Compliance Activities**

**Program Management/Construction Management Support**

**General Compliance Activity**

Program Management/Construction Management	06-Jun-14 A	29-Dec-23
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**1. South District WWTP**

**1.01 Headworks**

**Engineering Design**

EPA Compliance Date for Engineering Design - SD He	06-Jun-14 A	26-Apr-16 A
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**Procurement**

Procurement - SD Headworks	02-Feb-15 A	26-Apr-18
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**Construction**

Construction - SD Headworks	24-Mar-15 A	15-Aug-19
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Rehab Grit #1 (Screens #2) & Grit #2 (Screen #4)	24-Mar-15 A	15-Mar-16 A
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Rehab Grit #1 (Screens #3) & Grit #2 (Screen #3)	15-Aug-16*	14-May-17
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**Project Administration**

WASD Project Administration - SD Headworks	02-Feb-15 A	13-Nov-19
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**1.02 Oxygen Production**

**Pre-Design**

Negotiations for ESDC & Storwater Permit - SD Oxyg	14-Jul-15 A	31-Aug-16
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**Engineering Design**

Engineering Design - SD Oxygen Production	09-Apr-15 A	07-Feb-16 A
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100% Design Review/Permit Ready Submittal - SD Ox	08-Dec-15 A	07-Feb-16 A
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EPA Compliance Date for Engineering Design - SD Ox	08-Dec-15 A	29-May-16 A
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**Permitting**

Permitting - SD Oxygen Production	08-Feb-16 A	31-Oct-16
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RER Derm Permit - SD Oxygen Production	08-Feb-16 A	05-Aug-16
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Stormwater Permit - SD Oxygen Production	08-Feb-16 A	31-Oct-16
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EPA Compliance Date for Permitting - SD Oxygen Prox	08-Feb-16 A	25-Nov-16*
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**Procurement**

Review ER for Procurement - SD Oxygen Production	12-Apr-16 A	
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Pre-Purchase Air Compressors (Summary) - SD Oxyge	15-Jul-16	09-Apr-19
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Pre-Purchase Bid Package (Air Compressors) - SD O	15-Jul-16*	19-Nov-16
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Procurement - SD Oxygen Production	06-Aug-16	02-May-17
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Design Documents sent to Procurement - SD Oxygen	06-Aug-16	
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Submit/Approve SBD Goals and Request to Advertise	06-Aug-16	06-Oct-16
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Advertise Bid Packages - SD Oxygen Production	07-Oct-16	
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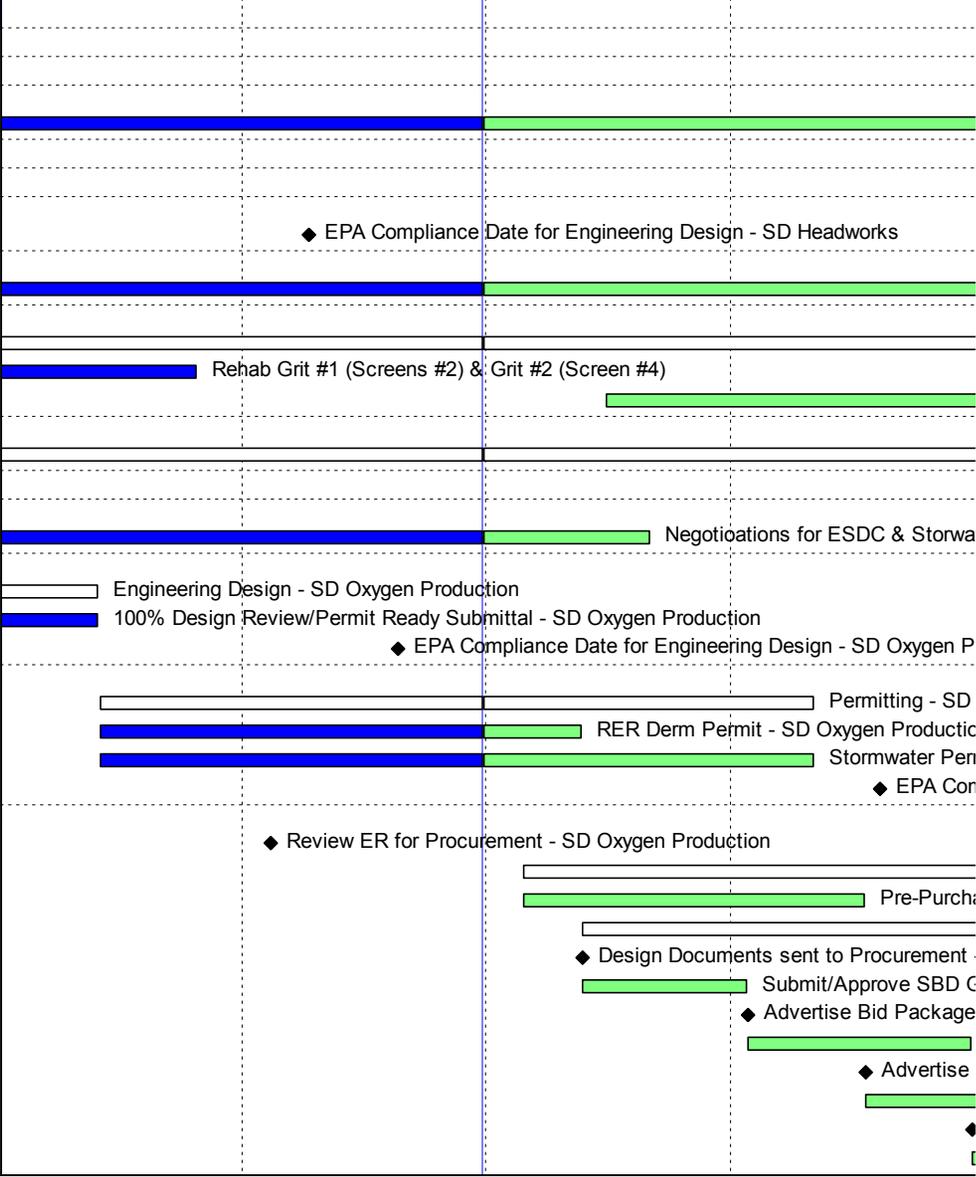
Bid Solicitation Period - SD Oxygen Production	07-Oct-16	29-Dec-16
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Advertise Pre-Purchase Package (Air Compressors) -	20-Nov-16	
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Vendor Bid & Award (Air Compressors)- SD Oxygen Pr	20-Nov-16	18-Apr-17
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Bids Due - SD Oxygen Production	30-Dec-16	
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Bid Review Period - SD Oxygen Production	30-Dec-16	07-Feb-17
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**MIAMI-DADE WATER & SEWER DEPARTMENT  
CONSENT DECREE PROGRAM SCHEDULE  
2016 SEMI ANNUAL REPORT #2**

Date	Revision	Che...	Appr...
14-Jul-14	Revision 0		
13-Jan-15	December 2014 Update		
15-Jan-16	December 2015 Update		
15-Jul-16	June 2016 Update		



Activity Name	Start	Finish	2016											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Engineering Design</b>														
1b- Engineering Design - Structural Rehab Wetwells	19-Nov-13 A	16-Aug-19												
1b- Engineering Design Wetwell #4 - Structural Rehab	04-Sep-16	02-Nov-16	1b- Engineering											
<b>Procurement</b>														
1b - Procurement - Structural Rehab Wetwells	18-Feb-14 A	14-Nov-19												
1b - Procurement Wetwell #4 - Structural Rehab Wetw	03-Nov-16	31-Jan-17												
<b>Construction</b>														
1b - Construction - Structural Rehab Wetwells - SD Ef	16-Feb-15 A	13-Mar-20												
1a - Install Electrical Equipment - SD Effluent PS Elec	23-Feb-15 A	14-Jul-16	1a - Install Electrical Equipment - SD Effluent P											
<b>Project Administration</b>														
WASD Project Administration - SD Effluent PS Elect.	19-Nov-13 A	13-Mar-20												
<b>1.05 (2) Effluent Pump Station Building Improvements &amp; Pumps 1-6 Equip.</b>														
<b>Pre-Design</b>														
Pre-Design - SD Effluent PS Building Improvements &	03-Mar-16 A	15-Jul-16	Pre-Design - SD Effluent PS Building Improvem											
<b>Engineering Design</b>														
Engineering Design - SD Effluent PS Building Improve	16-Jul-16	18-Oct-17												
Technical Memorandum (TM) - SD Effluent Pump Stat	16-Jul-16	13-Sep-16	Technical Memorandum (TM)											
Negotiate Remaining Balance of Work - SD Effluent P	16-Jul-16	12-Nov-16	Negotiate Re											
Review ER for Engineering Design - SD Effluent PS B	27-Oct-16		Review ER for Er											
Basis of Design Report (BODR) - SD Effluent Pump S	13-Nov-16	11-Jan-17												
<b>Project Administration</b>														
WASD Project Administration - SD Effluent PS Buildin	13-Nov-16	31-Mar-21												
<b>1.06 Gravity Sludge Thickeners</b>														
<b>Engineering Design</b>														
Engineering Design - SD Gravity Sludge Thickeners	03-Jul-14 A	22-Jul-16	Engineering Design - SD Gravity Sludge Thicl											
Pilot Testing of Thickening Process - SD Gravity Sludge	21-Aug-15 A	29-Apr-16 A	Pilot Testing of Thickening Process - SD Gravity Sludge Thickeners											
Design Criteria Package Initial Submittal - SD Gravity	03-Dec-15 A	26-Apr-16 A	Design Criteria Package Initial Submittal - SD Gravity Sludge Thickeners											
Issue Final RDBS - SD Gravity Sludge Thickeners		29-Mar-16 A	Issue Final RDBS - SD Gravity Sludge Thickeners											
DCP Design Review - SD Gravity Sludge Thickeners	25-Apr-16 A	19-May-16 A	DCP Design Review - SD Gravity Sludge Thickeners											
Final DCP Submittal - SD Gravity Sludge Thickeners	20-May-16 A	22-Jul-16	Final DCP Submittal - SD Gravity Sludge Thic											
<b>Permitting</b>														
Permitting - SD Gravity Sludge Thickeners	29-Jan-16 A	11-May-18												
FDEP Permit - SD Gravity Sludge Thickeners	29-Jan-16 A	29-Apr-17												
Stormwater ERP Permit - SD Gravity Sludge Thickeners	23-Jul-16	22-Jul-17												
<b>Procurement</b>														
Procurement - SD Gravity Sludge Thickeners - SD Gra	29-Mar-16 A	27-Mar-17												
RDBS Sent to Procurement - SD Gravity Sludge Thic	29-Mar-16 A		RDBS Sent to Procurement - SD Gravity Sludge Thickeners											
Submit/Approve SBD Goals and Request to Advertise	29-Mar-16 A	17-Jul-16	Submit/Approve SBD Goals and Request to Ac											
Review ER for Procurement - SD Gravity Sludge Thic	16-May-16 A		Review ER for Procurement - SD Gravity Sludge Thickeners											
Advertise RDBS - SD Gravity Sludge Thickeners	18-Jul-16		Advertise RDBS - SD Gravity Sludge Thickeners											
Request for Qualifications - SD Gravity Sludge Thicke	18-Jul-16	18-Aug-16	Request for Qualifications - SD Graviti											
Qualifications Package Due - SD Gravity Sludge Thic	19-Aug-16		Qualifications Package Due - SD Gra											
Qualification Review Period - SD Gravity Sludge Thic	19-Aug-16	23-Sep-16	Qualification Review Period											
Shortlist Published - SD Gravity Sludge Thickeners		23-Sep-16	Shortlist Published - SD Gr											
Request for Proposals - SD Gravity Sludge Thickeners	24-Sep-16	09-Dec-16	Requ											
Proposals Due - SD Gravity Sludge Thickeners	10-Dec-16		Prop											
Proposal Review Period - SD Gravity Sludge Thickeners	10-Dec-16	13-Jan-17												

WASD Consent Decree Schedule - June 2016 Update				Six Month Schedule Layout					25-Jul-16 12:53 - Page No. 4 of 47					
Activity Name	Start	Finish	2016											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Project Administration</b>														
WASD Project Administration - SD Gravity Sludge Thi	03-Jul-14 A	23-Dec-22												
<b>1.07 Digesters and Control Building</b>														
<b>Engineering Design</b>														
Engineering Design - SD Digesters & Control Building	30-Jun-14 A	31-Aug-16	Engineering Design - SD Digesters & Control Building											
60% Design Submittal - SD Digesters & Control Building	21-Nov-15 A	09-Mar-16 A	60% Design Submittal - SD Digesters & Control Building											
60% Design Submittal - SD Sub-Stations 7 & 8	19-Feb-16 A	12-Aug-16	60% Design Submittal - SD Sub-Stations 7 & 8											
60% Design Review -SD Digesters & Control Building	10-Mar-16 A	22-Mar-16 A	60% Design Review -SD Digesters & Control Building											
100% Design Submittal - SD Digesters & Control Builc	23-Mar-16 A	16-Jun-16 A	100% Design Submittal - SD Digesters & Control Builc											
100% Design Review/Permit Ready Submittal - SD Dig	17-Jun-16 A	31-Aug-16	100% Design Review/Permit Ready Submittal - SD Dig											
60% Design Review - SD Sub-Stations 7 & 8	13-Aug-16	19-Aug-16	60% Design Review - SD Sub-Stations 7 & 8											
100% Design Submittal - SD Sub-Stations 7 & 8	20-Aug-16	15-Sep-16	100% Design Submittal - SD Sub-Stations 7 & 8											
100% Design Review/Permit Ready Submittal - SD Su	16-Sep-16	30-Sep-16	100% Design Review/Permit Ready Submittal - SD Su											
EPA Compliance Date for Engineering Design - SD Dig		30-Sep-16*	EPA Compliance Date for Engineering Design - SD Dig											
<b>Permitting</b>														
Permitting - SD Digesters & Control Building	26-Oct-15 A	28-Jan-17	Permitting - SD Digesters & Control Building											
FDEP Permit - SD Digesters & Control Building	26-Oct-15 A	26-Nov-16	FDEP Permit - SD Digesters & Control Building											
RER DERM Permit - SD Digesters & Control Building	01-Sep-16	28-Jan-17	RER DERM Permit - SD Digesters & Control Building											
MDC Building Department Permit - SD Digesters & Co	01-Sep-16	28-Jan-17	MDC Building Department Permit - SD Digesters & Co											
EPA Compliance Date for Permitting - SD Digesters &		12-Dec-16*	EPA Compliance Date for Permitting - SD Digesters &											
<b>Procurement</b>														
Pre-Purchase RTU - SD Digesters & Control Building	01-Sep-16	17-Feb-19	Pre-Purchase RTU - SD Digesters & Control Building											
Pre-Purchase Bid Package (RTU) - SD Digesters & Cc	01-Sep-16	30-Oct-16	Pre-Purchase Bid Package (RTU) - SD Digesters & Cc											
Advertise Pre-Purchase Package (RTU) - SD Digester	31-Oct-16		Advertise Pre-Purchase Package (RTU) - SD Digester											
Vendor Bid & Award (RTU) - SD Digesters & Control B	31-Oct-16	29-Dec-16	Vendor Bid & Award (RTU) - SD Digesters & Control B											
Review ER for Procurement - SD Digesters & Control I	30-Nov-16		Review ER for Procurement - SD Digesters & Control I											
Vendor NTP (RTU) - SD Digesters & Control Building		29-Dec-16	Vendor NTP (RTU) - SD Digesters & Control Building											
Fabricate & Deliver RTU - SD Digesters & Control Buil	30-Dec-16	05-Oct-17	Fabricate & Deliver RTU - SD Digesters & Control Buil											
<b>Project Administration</b>														
WASD Project Administration - SD Digesters & Contrc	30-Jun-14 A	07-May-21	WASD Project Administration - SD Digesters & Contrc											
<b>1.08 Dewatering Facility</b>														
<b>Engineering Design</b>														
Engineering Design (DCP) - SD Dewatering Facilities	13-Apr-15 A	22-Jul-16	Engineering Design (DCP) - SD Dewatering Facilities											
Pilot Testing of Thickening Process - SD Dewatering F	21-Aug-15 A	29-Apr-16 A	Pilot Testing of Thickening Process - SD Dewatering F											
Design Criteria Package Initial Submittal - SD Dewater	03-Dec-15 A	26-Apr-16 A	Design Criteria Package Initial Submittal - SD Dewater											
Issue Final RDBS - SD Dewatering Facilities		29-Mar-16 A	Issue Final RDBS - SD Dewatering Facilities											
DCP Design Review - SD Dewatering Facilities	25-Apr-16 A	19-May-16 A	DCP Design Review - SD Dewatering Facilities											
Final DCP Submittal - SD Dewatering Facilities	20-May-16 A	22-Jul-16	Final DCP Submittal - SD Dewatering Facilities											
<b>Permitting</b>														
Permitting - SD Dewatering Facilities	29-Jan-16 A	11-May-18	Permitting - SD Dewatering Facilities											
FDEP Permit - SD Dewatering Facilities	29-Jan-16 A	30-May-17	FDEP Permit - SD Dewatering Facilities											
Stormwater ERP Permit - SD Dewatering Facilities	23-Jul-16	22-Jul-17	Stormwater ERP Permit - SD Dewatering Facilities											
<b>Procurement</b>														
Procurement - SD Dewatering Facilities	29-Mar-16 A	27-Mar-17	Procurement - SD Dewatering Facilities											
RDBS Sent to Procurement - SD Dewatering Facilities	29-Mar-16 A		RDBS Sent to Procurement - SD Dewatering Facilities											
Submit/Approve SBD Goals and Request to Advertise	29-Mar-16 A	17-Jul-16	Submit/Approve SBD Goals and Request to Advertise											
Review ER for Procurement - SD Dewatering Facilities	16-May-16 A		Review ER for Procurement - SD Dewatering Facilities											

WASD Consent Decree Schedule - June 2016 Update			Six Month Schedule Layout						25-Jul-16 12:53 - Page No. 5 of 47								
Activity Name	Start	Finish	2016														
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Advertise RDBS - SD Dewatering Facilities	18-Jul-16*																◆ Advertise RDBS - SD Dewatering Facilities
Request for Qualifications - SD Dewatering Facilities	18-Jul-16	18-Aug-16															█ Request for Qualifications - SD Dewa
Qualifications Package Due - SD Dewatering Facilities	19-Aug-16																◆ Qualifications Package Due - SD Dev
Qualification Review Period - SD Dewatering Facilities	19-Aug-16	23-Sep-16															█ Qualification Review Period
Shortlist Published - SD Dewatering Facilities		23-Sep-16															◆ Shortlist Published - SD De
Request for Proposals - SD Dewatering Facilities	24-Sep-16	09-Dec-16															█ Request for Proposals - SD Dewatering Facilities
Proposals Due - SD Dewatering Facilities	10-Dec-16																◆ Proposals Due - SD Dewatering Facilities
Proposal Review Period - SD Dewatering Facilities	10-Dec-16	13-Jan-17															█ Proposal Review Period - SD Dewatering Facilities
<b>Project Administration</b>																	
WASD Project Administration - SD Dewatering Facilities	13-Apr-15 A	31-Dec-19															
<b>1.09 FOG Removal Facility</b>																	
<b>Engineering Design</b>																	
100% Design Review/Permit Ready Submittal - SD FC	24-Dec-15 A	21-Jan-16 A															█ 100% Design Review/Permit Ready Submittal - SD FOG Removal Facility
EPA Compliance Date for Engineering Design - SD FC		16-Feb-16 A															◆ EPA Compliance Date for Engineering Design - SD FOG Removal Facility
<b>Permitting</b>																	
Permitting - SD FOG Removal Facility	10-Nov-15 A	24-Sep-16															█ Permitting - SD FOG Remo
FDEP Permit - SD FOG Removal Facility	10-Nov-15 A	15-Aug-16															█ FDEP Permit - SD FOG Removal Faci
RER Bldg Dept. Permit - SD FOG Removal Facility	03-Feb-16 A	15-Aug-16															█ RER Bldg Dept. Permit - SD FOG Ren
EPA Compliance Date for Permitting - SD FOG Remo		14-Sep-16*															◆ EPA Compliance Date for Per
<b>Procurement</b>																	
Review ER for Procurement - SD FOG Removal Facility	13-May-16 A																◆ Review ER for Procurement - SD FOG Removal Facility
Procurement - SD FOG Removal Facility	26-Jul-16	23-Nov-16															█ Procurement - SD FOG Removal Facility
Design Documents Sent to Procurement - SD FOG Re	26-Jul-16*																◆ Design Documents Sent to Procurement - S
Submit/Approve SBD Goals and Request to Advertise	26-Jul-16	25-Aug-16															█ Submit/Approve SBD Goals and Re
Advertise Bid Package - SD FOG Removal Facility	26-Aug-16																◆ Advertise Bid Package - SD FOG F
Bid Solicitation Period - SD FOG Removal Facility	26-Aug-16	09-Oct-16															█ Bid Solicitation Period
Bids Due - SD FOG Removal Facility	10-Oct-16																◆ Bids Due - SD FOG R
Bid Review Period - SD FOG Removal Facility	10-Oct-16	24-Oct-16															█ Bid Review Period
Award Recommendation - SD FOG Removal Facility		24-Oct-16															◆ Award Recomm
Final Approvals (BCC, Mayor, Risk Mgmt.) - SD FOG I	25-Oct-16	23-Nov-16															█ Final App
Contractor Notice to Proceed (NTP) - SD FOG Remov	24-Nov-16																◆ Contracto
EPA Compliance Date for Procurement - SD FOG Ren		12-Dec-16*															◆ EPA
<b>Construction</b>																	
Construction - SD FOG Removal Facility	24-Nov-16	18-Oct-17															█ Construction - SD FOG Removal Facility
<b>Project Administration</b>																	
WASD Project Administration - SD FOG Removal Fac	08-Jul-14 A	16-Jan-18															
<b>1.11 General Electrical</b>																	
<b>Engineering Design</b>																	
Engineering Design (Summary) - SD General Electrical	09-Apr-15 A	19-May-17															
<b>Permitting</b>																	
Permitting (Summary) - SD General Electrical	08-Feb-16 A	16-Apr-18															
<b>Procurement</b>																	
Procurement (Summary) - SD General Electrical	06-Aug-16	12-Aug-18															
<b>Project Administration</b>																	
WASD Project Administration - SD General Electric	13-Apr-15 A	31-Dec-20															
<b>1.11 (1) SDWWTP General Electrical In-house Construction</b>																	
<b>Engineering Design</b>																	











WASD Consent Decree Schedule - June 2016 Update			Six Month Schedule Layout						25-Jul-16 12:54 - Page No. 11 of 47					
Activity Name	Start	Finish	2016											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Electrical Equip. / Expand Structure - CD Oxygenation	02-Feb-15 A	17-Feb-17	[Gantt bar]											
Structural Rehab Train #3 - CD Oxygenation Trains Pla	15-Jul-15 A	29-Feb-16 A	[Gantt bar] Structural Rehab Train #3 - CD Oxygenation Trains Plant 2											
Construction - CD Oxygenation Trains Plant 2	15-Jul-15 A	28-May-19	[Gantt bar]											
Install Mixers Trains #2-4 - CD Oxygenation Trains Pla	01-Sep-15 A	29-Feb-16 A	[Gantt bar] Install Mixers Trains #2-4 - CD Oxygenation Trains Plant 2											
Structural Rehab Train #1 - CD Oxygenation Trains Pla	11-Jan-16 A	30-Nov-17	[Gantt bar]											
Install Mixers Train #1 - CD Oxygenation Trains Plant 2	11-Jan-16 A	03-Feb-16 A	[Gantt bar] Install Mixers Train #1 - CD Oxygenation Trains Plant 2											
<b>Project Administration</b>														
WASD Project Administration - CD Oxygenation Trains	01-Mar-11 A	28-May-18	[Gantt bar]											
<b>2.08 Secondary Clarifiers Plant 2</b>														
<b>Pre-Design</b>														
Pre-Design -CD Secondary Clarifiers Plant 2	15-Jul-15 A	10-Mar-16 A	[Gantt bar] Pre-Design -CD Secondary Clarifiers Plant 2											
<b>Engineering Design</b>														
Engineering Design - CD Secondary Clarifiers Plant 2	10-Mar-16 A	31-Jan-17	[Gantt bar]											
Draft Basis of Design Report (BODR) - CD Secondary	11-Mar-16 A	17-Jun-16 A	[Gantt bar] Draft Basis of Design Report (BODR) - CD Secondary C											
Review ER for Engineering Design - CD Secondary Clc	30-Mar-16 A		[Gantt bar] Review ER for Engineering Design - CD Secondary Clarifiers Plant 2											
BODR Review Period - CD Secondary Clarifiers Plant 2	18-Jun-16 A	24-Jun-16 A	[Gantt bar] BODR Review Period - CD Secondary Clarifiers Plant 2											
Final Basis of Design Report (BODR) - CD Secondary	25-Jun-16 A	08-Jul-16	[Gantt bar] Final Basis of Design Report (BODR) - CD Second											
30% Design Submittal - CD Secondary Clarifiers Plant 2	09-Jul-16	24-Aug-16	[Gantt bar] 30% Design Submittal - CD Second											
30% Design Review - CD Secondary Clarifiers Plant 2	25-Aug-16	31-Aug-16	[Gantt bar] 30% Design Review - CD Second											
60% Design Submittal - CD Secondary Clarifiers Plant 2	01-Sep-16	19-Oct-16	[Gantt bar] 60% Design Submi											
60% Design Review - CD Secondary Clarifiers Plant 2	20-Oct-16	26-Oct-16	[Gantt bar] 60% Design Revi											
100% Design Submittal - CD Secondary Clarifiers Plar	27-Oct-16	22-Dec-16	[Gantt bar]											
EPA Compliance Dtae for Engineering Design - CD Se		05-Dec-16*	[Gantt bar] EPA C											
100% Design Review/Permit Ready Submittal - CD Se	23-Dec-16	31-Jan-17	[Gantt bar]											
<b>Permitting</b>														
Permitting - CD Secondary Clarifiers Plant 2	23-Jul-16	21-Aug-17	[Gantt bar]											
FDEP Permit- CD Secondary Clarifiers Plant 2	23-Jul-16	19-Dec-16	[Gantt bar] F											
<b>Project Administration</b>														
WASD Project Administration - CD Secondary Clarifier	11-Mar-16 A	24-May-23	[Gantt bar]											
<b>2.10 Return Sludge PS Plant 2</b>														
<b>Pre-Design</b>														
Pre-Design - CD Return Sludge PS Plant 2	15-Jul-15 A	10-Mar-16 A	[Gantt bar] Pre-Design - CD Return Sludge PS Plant 2											
<b>Engineering Design</b>														
RAS Header pipe Design Validation - CD Return Sludge	13-Jan-16 A	27-Jan-16 A	[Gantt bar] RAS Header pipe Design Validation - CD Return Sludge PS Plant 2											
RAS Header pipe 100% Design Submission - CD Retu	28-Jan-16 A	13-Apr-16 A	[Gantt bar] RAS Header pipe 100% Design Submission - CD Return Sludge PS Plant 2											
Engineering Design - CD Return Sludge PS Plant 2	11-Mar-16 A	03-Feb-17	[Gantt bar]											
Draft Basis of Design Report (BODR) - CD Return Sluc	11-Mar-16 A	17-Jun-16 A	[Gantt bar] Draft Basis of Design Report (BODR) - CD Return Sludge											
BODR Review Period - CD Return Sludge PS Plant 2	18-Jun-16 A	24-Jun-16 A	[Gantt bar] BODR Review Period - CD Return Sludge PS Plant 2											
Final Basis of Design Report (BODR) - CD Return Sluc	25-Jun-16 A	08-Jul-16	[Gantt bar] Final Basis of Design Report (BODR) - CD Return											
30% Design Submittal - CD Return Sludge PS Plant 2	09-Jul-16	27-Aug-16	[Gantt bar] 30% Design Submittal - CD Return											
30% Design Review - CD Return Sludge PS Plant 2	28-Aug-16	03-Sep-16	[Gantt bar] 30% Design Review - CD Return											
60% Design Submittal - CD Return Sludge PS Plant 2	04-Sep-16	22-Oct-16	[Gantt bar] 60% Design Subm											
60% Design Review - CD Return Sludge PS Plant 2	23-Oct-16	29-Oct-16	[Gantt bar] 60% Design Rev											
100% Design Submittal - CD Return Sludge PS Plant 2	30-Oct-16	25-Dec-16	[Gantt bar]											
EPA Compliance Date for Engineering Design - CD Re		05-Dec-16*	[Gantt bar] EPA C											
100% Design Review/Permit Ready Submittal - CD Re	26-Dec-16	03-Feb-17	[Gantt bar]											
<b>Permitting</b>														

Activity Name	Start	Finish	2016													
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Permitting - CD Return Sludge PS Plant 2	22-Mar-16 A	24-Aug-17														
FDEP Permit (RAS Header Pipe) - CD Return Sludge I	22-Mar-16 A	30-Jul-17														
FDEP Permit (Remaining Scope) - CD Return Sludge I	23-Jul-16	22-Aug-17														
<b>Procurement</b>																
Procurement - CD Return Sludge PS Plant 2	14-Apr-16 A	21-May-18														
Emergency Procurement of RAS Header Pipe - CD Re	14-Apr-16 A	20-Apr-16 A														
<b>Construction</b>																
Construction - CD Return Sludge PS Plant 2	22-Apr-16 A	26-Feb-23														
Construction RAS Header Pipe - CD Return Sludge PS	22-Apr-16 A	16-Dec-16														
<b>Project Administration</b>																
WASD Project Administration - CD Return Sludge PS	11-Mar-16 A	27-May-23														
<b>2.11 Effluent Pump Station</b>																
<b>Pre-Design</b>																
Pre-Design - CD Effluent Pump Station	19-Feb-16 A	15-Jul-16														
<b>Engineering Design</b>																
Engineering Design - CD Effluent Pump Station	16-Jul-16	01-May-17														
Basis of Design Report (BODR) - CD Effluent Pump S	16-Jul-16	03-Sep-16														
Review ER for Engineering Design - CD Effluent Pump	16-Jul-16*															
BODR Review Period - CD Effluent Pump Station	04-Sep-16	17-Sep-16														
30% Design Submittal - CD Effluent Pump Station	18-Sep-16	06-Nov-16														
30% Design Review - CD Effluent Pump Station	07-Nov-16	20-Nov-16														
60% Design Submittal - CD Effluent Pump Station	21-Nov-16	09-Jan-17														
<b>Project Administration</b>																
WASD Project Administration - CD Effluent Pump Sta	16-Jul-16	12-Sep-19														
<b>2.12 Gravity Sludge Thickeners Plant 1</b>																
<b>Engineering Design</b>																
Engineering Design - CD Gravity Sludge Thickeners PI	30-Apr-15 A	22-Aug-16														
BODR Design Review - CD Gravity Sludge Thickeners	23-Dec-15 A	27-Jan-16 A														
Pilot Testing of Thickening Process - CD Gravity Sludg	04-Jan-16 A	02-Aug-16														
Design Criteria Package Initial Submittal - CD Gravity	28-Jan-16 A	26-Apr-16 A														
Issue Final RDBS - CD Gravity Sludge Thickeners Pla		29-Mar-16 A														
DCP Design Review - CD Gravity Sludge Thickeners F	25-Apr-16 A	10-Jul-16														
Final DCP Submittal - CD Gravity Sludge Thickeners F	11-Jul-16	22-Aug-16														
<b>Permitting</b>																
Permitting - CD Gravity Sludge Thickeners Plant 1	29-Jan-16 A	21-Apr-18														
FDEP Permit - CD Gravity Sludge Thickeners Plant 1	29-Jan-16 A	30-May-17														
Stormwater ERP Permit - CD Gravity Sludge Thicken	23-Aug-16	22-Aug-17														
<b>Procurement</b>																
Procurement - CD Gravity Sludge Thickeners Plant 1	29-Mar-16 A	27-Mar-17														
RDBS Sent to Procurement - CD Gravity Sludge Thick	29-Mar-16 A															
Submit/Approve SBD Goals and Request to Advertise	29-Mar-16 A	17-Jul-16														
Review ER for Procurement - CD Gravity Sludge Thick	16-May-16 A															
Advertise RDBS - CD Gravity Sludge Thickeners Plant	18-Jul-16															
Request for Qualifications - CD Gravity Sludge Thicke	18-Jul-16	18-Aug-16														
Qualifications Package Due - CD Gravity Sludge Thick	19-Aug-16															
Qualification Review Period - CD Gravity Sludge Thick	19-Aug-16	23-Sep-16														
Shortlist Published - CD Gravity Sludge Thickeners Pl		23-Sep-16														

**Legend:**

- Basis of Design Report (BODR) -
- Review ER for Engineering Design - CD Effluent
- BODR Review Period - CD E
- 30% Design S
- 30% Desig
- Emergency Procurement of RAS Header Pipe - CD Return Sludge PS Pl
- Pre-Design - CD Effluent Pump Station
- BODR Design Review - CD Gravity Sludge Thickeners Plant 1
- Pilot Testing of Thickening Process - CD G
- Design Criteria Package Initial Submittal - CD Gravity Sludge Thicken
- Issue Final RDBS - CD Gravity Sludge Thickeners Plant 1
- DCP Design Review - CD Gravity Sludge Thicker
- Final DCP Submittal - CD Gravity Sl
- RDBS Sent to Procurement - CD Gravity Sludge Thickeners Plant 1
- Submit/Approve SBD Goals and Request to Ac
- Review ER for Procurement - CD Gravity Sludge Thickeners Plan
- Advertise RDBS - CD Gravity Sludge Thicken
- Request for Qualifications - CD Graviti
- Qualifications Package Due - CD Gra
- Qualification Review Period
- Shortlist Published - CD Gr



WASD Consent Decree Schedule - June 2016 Update			Six Month Schedule Layout						25-Jul-16 12:54 - Page No. 14 of 47								
Activity Name	Start	Finish	2016														
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Advertise Bid Package - CD Digesters Plant 2 Cluster 1	08-Jul-16																◆ Advertise Bid Package - CD Digesters Plant 2 Cluster 1
Bid Solicitation Period - CD Digesters Plant 2 Cluster 1	08-Jul-16	21-Aug-16															█ Bid Solicitation Period - CD Digesters Plant 2 Cluster 1
Bids Due - CD Digesters Plant 2 Cluster 1	22-Aug-16																◆ Bids Due - CD Digesters Plant 2 Cluster 1
Bid Review Period - CD Digesters Plant 2 Cluster 1	22-Aug-16	05-Sep-16															█ Bid Review Period - CD Digesters Plant 2 Cluster 1
Award Recommendation - CD Digesters Plant 2 Cluster 1		05-Sep-16															◆ Award Recommendation - CD Digesters Plant 2 Cluster 1
Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Digesters Plant 2 Cluster 1	06-Sep-16	05-Oct-16															█ Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Digesters Plant 2 Cluster 1
EPA Compliance Date for Procurement - CD Digesters Plant 2 Cluster 1		23-Sep-16*															◆ EPA Compliance Date for Procurement - CD Digesters Plant 2 Cluster 1
Contractor Notice to Proceed (NTP) - CD Digesters Plant 2 Cluster 1	06-Oct-16																◆ Contractor Notice to Proceed - CD Digesters Plant 2 Cluster 1
<b>Construction</b>																	
Construction - CD Digesters Plant 2 Cluster 1	23-Mar-15 A	18-Oct-17															
Construction (Remaining Scope) - CD Digesters Plant 2 Cluster 1	06-Oct-16	18-Oct-17															█ Construction (Remaining Scope) - CD Digesters Plant 2 Cluster 1
<b>Project Administration</b>																	
WASD Project Administration - CD Digesters Plant 2 Cluster 1	11-Jun-14 A	16-Jan-18															
<b>2.15.2 Cluster 2</b>																	
<b>Pre-Design</b>																	
Negotiate Scope & Fee for Balance of Design - CD Digesters Plant 2 Cluster 2	13-Nov-15 A	07-Jul-16															█ Negotiate Scope & Fee for Balance of Design - CD Digesters Plant 2 Cluster 2
<b>Engineering Design</b>																	
Engineering Design - CD Digesters Plant 2 Cluster 2	04-May-15 A	01-Aug-16															█ Engineering Design - CD Digesters Plant 2 Cluster 2
100% Design Submittal - CD Digesters Plant 2 Cluster 2	28-Apr-16 A	18-Jun-16 A															█ 100% Design Submittal - CD Digesters Plant 2 Cluster 2
100% Design Review/Permit Ready Submittal - CD Digesters Plant 2 Cluster 2	19-Jun-16 A	01-Aug-16															█ 100% Design Review/Permit Ready Submittal - CD Digesters Plant 2 Cluster 2
<b>Permitting</b>																	
Permitting - CD Digesters Plant 2 Cluster 2	02-Aug-16	28-Jan-17															█ Permitting - CD Digesters Plant 2 Cluster 2
<b>Procurement</b>																	
Review ER for Procurement - CD Digesters Plant 2 Cluster 2	30-Nov-16																◆ Review ER for Procurement - CD Digesters Plant 2 Cluster 2
<b>Project Administration</b>																	
WASD Project Administration - CD Digesters Plant 2 Cluster 2	05-May-15 A	27-Jul-19															
<b>2.15.3 Cluster 3</b>																	
<b>Pre-Design</b>																	
Pre-Design - CD Digesters Plant 2 Cluster 3	13-Apr-16 A	26-Sep-16															█ Pre-Design - CD Digesters Plant 2 Cluster 3
<b>Engineering Design</b>																	
Review ER for Engineering Design - CD Digesters Plant 2 Cluster 3	30-Jun-16																◆ Review ER for Engineering Design - CD Digesters Plant 2 Cluster 3
Engineering Design - CD Digesters Plant 2 Cluster 3	27-Sep-16	18-Apr-17															█ Engineering Design - CD Digesters Plant 2 Cluster 3
100% Design Submittal - CD Digesters Plant 2 Cluster 3	27-Sep-16	24-Jan-17															█ 100% Design Submittal - CD Digesters Plant 2 Cluster 3
<b>Project Administration</b>																	
WASD Project Administration - CD Digesters Plant 2 Cluster 3	30-Jun-16	27-Jan-21															
<b>2.15.4 Cluster 4</b>																	
<b>Engineering Design</b>																	
Engineering Design - CD Digesters Plant 2 Cluster 4	04-May-15 A	11-Oct-16															█ Engineering Design - CD Digesters Plant 2 Cluster 4
EPA Compliance Date for Engineering Design - CD Digesters Plant 2 Cluster 4		11-Mar-16 A															◆ EPA Compliance Date for Engineering Design - CD Digesters Plant 2 Cluster 4
100% Design Submittal - CD Digesters Plant 2 Cluster 4	30-Jun-16*	11-Sep-16															█ 100% Design Submittal - CD Digesters Plant 2 Cluster 4
100% Design Review/Permit Ready Submittal - CD Digesters Plant 2 Cluster 4	12-Sep-16	11-Oct-16															█ 100% Design Review/Permit Ready Submittal - CD Digesters Plant 2 Cluster 4
<b>Permitting</b>																	
Permitting - CD Digesters Plant 2 Cluster 4	12-Oct-16	09-Apr-17															█ Permitting - CD Digesters Plant 2 Cluster 4
<b>Project Administration</b>																	
WASD Project Administration - CD Digesters Plant 2 Cluster 4	05-May-15 A	18-Nov-19															
<b>2.16 Dewatering Building</b>																	
<b>Engineering Design</b>																	
Engineering Design - CD Dewatering Building	01-May-15 A	11-Aug-16															█ Engineering Design - CD Dewatering Building

WASD Consent Decree Schedule - June 2016 Update			Six Month Schedule Layout						25-Jul-16 12:54 - Page No. 15 of 47					
Activity Name	Start	Finish	2016											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
BODR Review Period - CD Dewatering Building	23-Dec-15 A	27-Jan-16 A	BODR Review Period - CD Dewatering Building											
Pilot Testing of Thickening Process - CD Dewatering B	04-Jan-16 A	01-Aug-16	Pilot Testing of Thickening Process - CD Dewatering B											
Design Criteria Package Initial Submittal - CD Dewatering Building	28-Jan-16 A	26-Apr-16 A	Design Criteria Package Initial Submittal - CD Dewatering Building											
Issue Final RDBS - CD Dewatering Building		29-Mar-16 A	◆ Issue Final RDBS - CD Dewatering Building											
DCP Design Review - CD Dewatering Building	27-Apr-16 A	10-Jul-16	DCP Design Review - CD Dewatering Building											
Final DCP Submittal - CD Dewatering Building	30-Jun-16	11-Aug-16	Final DCP Submittal - CD Dewatering B											
<b>Permitting</b>														
Permitting - CD Dewatering Building	29-Jan-16 A	31-May-18	Permitting - CD Dewatering Building											
FDEP Permit - CD Dewatering Building	29-Jan-16 A	30-May-17	FDEP Permit - CD Dewatering Building											
Stormwater ERP Permit - CD Dewatering Building	12-Aug-16	11-Aug-17	Stormwater ERP Permit - CD Dewatering Building											
<b>Procurement</b>														
Procurement - CD Dewatering Building	29-Mar-16 A	27-Mar-17	Procurement - CD Dewatering Building											
RDBS Sent to Procurement - CD Dewatering Building	29-Mar-16 A		◆ RDBS Sent to Procurement - CD Dewatering Building											
Submit/Approve SBD Goals and Request to Advertise	29-Mar-16 A	17-Jul-16	Submit/Approve SBD Goals and Request to Ad											
Review ER for Procurement - CD Dewatering Building	16-May-16 A		◆ Review ER for Procurement - CD Dewatering Building											
Advertise RDBS - CD Dewatering Building	18-Jul-16		◆ Advertise RDBS - CD Dewatering Building											
Request for Qualifications - CD Dewatering Building	18-Jul-16	18-Aug-16	Request for Qualifications - CD Dewatering Building											
Qualifications Package Due - CD Dewatering Building	19-Aug-16		◆ Qualifications Package Due - CD Dewatering Building											
Qualification Review Period - CD Dewatering Building	19-Aug-16	23-Sep-16	Qualification Review Period - CD Dewatering Building											
Shortlist Published - CD Dewatering Building		23-Sep-16	◆ Shortlist Published - CD Dewatering Building											
Request for Proposals - CD Dewatering Building	24-Sep-16	09-Dec-16	Request for Proposals - CD Dewatering Building											
Proposals Due - CD Dewatering Building	10-Dec-16		◆ Proposals Due - CD Dewatering Building											
Proposal Review Period - CD Dewatering Building	10-Dec-16	13-Jan-17	Proposal Review Period - CD Dewatering Building											
<b>Project Administration</b>														
WASD Project Administration - CD Dewatering Building	01-May-15 A	22-Dec-19	WASD Project Administration - CD Dewatering Building											
<b>2.17 Chlorination Facilities</b>														
<b>Engineering Design</b>														
Develop Equipment Pre-Purchase Packages - CD Chlorination Facilities	18-Jun-15 A	22-Jul-16	Develop Equipment Pre-Purchase Packages - CD Chlorination Facilities											
<b>Permitting</b>														
Permitting - CD Chlorination Facilities	20-Nov-15 A	27-Jun-16 A	Permitting - CD Chlorination Facilities											
City of Miami Building Permit - CD Chlorination Facilities	20-Nov-15 A	27-Jun-16 A	City of Miami Building Permit - CD Chlorination Facilities											
EPA Compliance Date for Permitting - CD Chlorination Facilities		30-Jul-16*	◆ EPA Compliance Date for Permitting - CD Chlorination Facilities											
<b>Procurement</b>														
Procurement - CD Chlorination Facilities	16-Nov-15 A	28-Mar-16 A	Procurement - CD Chlorination Facilities											
Bid Solicitation Period - CD Chlorination Facilities	28-Dec-15 A	07-Feb-16 A	Bid Solicitation Period - CD Chlorination Facilities											
Owner Pre-Purchase RTU - CD Chlorination Facilities	16-Jan-16 A	03-Mar-17	Owner Pre-Purchase RTU - CD Chlorination Facilities											
Pre-Purchase Bid Package (RTU) - CD Chlorination Facilities	16-Jan-16 A	31-Aug-16	Pre-Purchase Bid Package (RTU) - CD Chlorination Facilities											
Bids Due - CD Chlorination Facilities	08-Feb-16 A		◆ Bids Due - CD Chlorination Facilities											
Bid Review Period - CD Chlorination Facilities	08-Feb-16 A	21-Feb-16 A	Bid Review Period - CD Chlorination Facilities											
Award Recommendation - CD Chlorination Facilities		22-Feb-16 A	◆ Award Recommendation - CD Chlorination Facilities											
Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Chlorination Facilities	22-Feb-16 A	28-Mar-16 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Chlorination Facilities											
Vendor NTP (RTU) - CD Chlorination Facilities		31-Aug-16	◆ Vendor NTP (RTU) - CD Chlorination Facilities											
Fabricate & Deliver Pre-Purchase RTUs - CD Chlorination Facilities	01-Sep-16	03-Mar-17	Fabricate & Deliver Pre-Purchase RTUs - CD Chlorination Facilities											
EPA Compliance Date for Procurement - CD Chlorination Facilities		06-Sep-16*	◆ EPA Compliance Date for Procurement - CD Chlorination Facilities											
<b>Construction</b>														
Construction - CD Chlorination Facilities	18-Apr-16 A	19-Oct-17	Construction - CD Chlorination Facilities											
Contractor Notice to Proceed (NTP) - CD Chlorination Facilities	18-Apr-16 A		◆ Contractor Notice to Proceed (NTP) - CD Chlorination Facilities											

Activity Name	Start	Finish	2016												
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>Project Administration</b>															
WASD Project Administration - CD Chlorination Faciliti	01-Oct-13 A	17-Jan-18													
<b>2.18 Odor Control Systems</b>															
<b>Engineering Design</b>															
Engineering Design - CD Odor Control Systems	06-Oct-14 A	11-Aug-16													
<b>Permitting</b>															
Permitting (Summary) - CD Odor Control Systems	29-Jan-16 A	23-Sep-19													
<b>Procurement</b>															
Procurement (Summary) - CD Odor Control Systems -	29-Mar-16 A	23-Sep-19													
<b>Construction</b>															
Construction (Summary) - CD Odor Control Systems	03-Sep-16	23-Sep-19													
<b>Project Administration</b>															
WASD Project Administration - CD Odor Control Syste	06-Oct-14 A	22-Dec-19													
<b>2.18 (1) Headworks Odor Controls System (Project 2.03/2.04)</b>															
<b>Permitting</b>															
Permitting (Headworks) - CD Odor Control Systems	29-Jan-16 A	31-Jul-16													
<b>Procurement</b>															
Review ER for Procurement (Headworks)	12-Apr-16 A														
Procurement (Headworks) - CD Odor Control Systems	10-Jun-16 A	25-Nov-16													
<b>Construction</b>															
Construction (Headworks) - CD Odor Control Systems	03-Sep-16	16-Mar-18													
<b>2.18 (2) Dewatering Odor Control System (Project 2.16)</b>															
<b>Engineering Design</b>															
Engineering Design (Dewatering) - CD Odor Control Sy	28-Jan-16 A	11-Aug-16													
<b>Permitting</b>															
Permitting (Dewatering) - CD Odor Control Systems	29-Jan-16 A	30-May-17													
<b>Procurement</b>															
Procurement (Dewatering) - CD Odor Control Systems	29-Mar-16 A	27-Mar-17													
Review ER for Procurement (Dewatering)	16-May-16 A														
<b>2.19 Co-Gen Improvements</b>															
<b>Engineering Design</b>															
Engineering Design - CD Co-Gen Improvements	22-Nov-12 A	19-Jan-19													
EPA Compliance Date for Engineering Design - CD Co		09-Aug-16*													
<b>Permitting</b>															
Permitting - CD Co-Gen Improvements	12-Mar-13 A	19-Jan-19													
<b>Procurement</b>															
Procurement - CD Co-Gen Improvements	12-Mar-14 A	19-Jan-19													
<b>Construction</b>															
Construction - CD Co-Gen Improvements	30-Jul-14 A	19-Jan-19													
<b>2.19 (1) Co-Gen Generator Replacement</b>															
<b>Construction</b>															
Construction - CD Co-Gen Generator Replacement	30-Jul-14 A	27-Jan-16 A													
2.19 (1) Substantial Completion (CD Compliance Date)		27-Jan-16 A													
<b>Project Administration</b>															
WASD Project Administration - CD Co-Gen Generator	22-Nov-12 A	27-Jan-16 A													
<b>2.19 (2) Co-Gen Biogas Treatment Facilities</b>															
<b>Engineering Design</b>															
Engineering Design - CD Co-Gen Biogas Treatment Fa	04-Jun-15 A	22-Jul-16													

  Construction - CD Co-Gen Generator Replacement  
◆ 2.19 (1) Substantial Completion (CD Compliance Date 3/31/19) - CD Co-Gen Generator Replacement  
 WASD Project Administration - CD Co-Gen Generator Replacement

Activity Name	Start	Finish	2016											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
a - Remaining Basis of Design Report (BODR) - CD Co-Gen Biogas Treatment Facilities	17-Dec-15 A	24-Feb-16 A	[Gantt bar: Dec 17, 2015 - Feb 24, 2016]											
a - BODR Review Period - CD Co-Gen Biogas Treatment Facilities	25-Feb-16 A	02-Mar-16 A	[Gantt bar: Feb 25, 2016 - Mar 2, 2016]											
a - 60% Design Submittal - CD Co-Gen Biogas Treatment Facilities	14-Mar-16 A	29-Apr-16 A	[Gantt bar: Mar 14, 2016 - Apr 29, 2016]											
b - Draft Basis of Design Report (BODR) - CD Co-Gen Restroom and Building Rehabilitation	14-Apr-16 A	11-May-16 A	[Gantt bar: Apr 14, 2016 - May 11, 2016]											
a - 60% Design Review - CD Co-Gen Biogas Treatment Facilities	30-Apr-16 A	06-May-16 A	[Gantt bar: Apr 30, 2016 - May 6, 2016]											
a - 100% Design Submittal - CD Co-Gen Biogas Treatment Facilities	07-May-16 A	30-Jun-16	[Gantt bar: May 7, 2016 - Jun 30, 2016]											
b - BODR Review Period - CD Co-Gen Restroom and Building Rehabilitation	12-May-16 A	25-May-16 A	[Gantt bar: May 12, 2016 - May 25, 2016]											
b - Final BODR - CD Co-Gen Restroom and Building Rehabilitation	26-May-16 A	08-Jun-16 A	[Gantt bar: May 26, 2016 - Jun 8, 2016]											
b - 60% Design Submittal - CD Co-Gen Restroom and Building Rehabilitation	09-Jun-16 A	06-Jul-16	[Gantt bar: Jun 9, 2016 - Jul 6, 2016]											
a - 100% Design Review/Permit Ready Submittal - CD Co-Gen Biogas Treatment Facilities	30-Jun-16	22-Jul-16	[Gantt bar: Jun 30, 2016 - Jul 22, 2016]											
b - 60% Design Review - CD Co-Gen Restroom and Building Rehabilitation	07-Jul-16	20-Jul-16	[Gantt bar: Jul 7, 2016 - Jul 20, 2016]											
b - 100% Design Submittal - CD Co-Gen Restroom and Building Rehabilitation	21-Jul-16	17-Aug-16	[Gantt bar: Jul 21, 2016 - Aug 17, 2016]											
b - 100% Design Review/Permit Ready Submittal - CD Co-Gen Restroom and Building Rehabilitation	18-Aug-16	14-Sep-16	[Gantt bar: Aug 18, 2016 - Sep 14, 2016]											
<b>Permitting</b>														
Permitting - CD Co-Gen Biogas Treatment Facilities	10-May-16 A	15-Mar-17	[Gantt bar: May 10, 2016 - Mar 15, 2017]											
a - FDEP Permit - CD Co-Gen Biogas Treatment Facilities	10-May-16 A	22-Jun-16 A	[Gantt bar: May 10, 2016 - Jun 22, 2016]											
a - City of Miami Permit - CD Co-Gen Biogas Treatment Facilities	23-Jul-16	21-Nov-16	[Gantt bar: Jul 23, 2016 - Nov 21, 2016]											
b - Permitting - CD Co-Gen Restroom and Building Rehabilitation	15-Sep-16	15-Mar-17	[Gantt bar: Sep 15, 2016 - Mar 15, 2017]											
<b>Procurement</b>														
Review ER for Procurement - CD Co-Gen Biogas Treatment Facilities	23-Sep-16*		[Gantt bar: Sep 23, 2016 - Sep 23, 2016]											
Procurement - CD Co-Gen Biogas Treatment Facilities	22-Nov-16	29-May-17	[Gantt bar: Nov 22, 2016 - May 29, 2017]											
Design Documents Sent to Procurement	22-Nov-16		[Gantt bar: Nov 22, 2016 - Nov 22, 2016]											
Submit/Approve SBD Goals and Request to Advertise	22-Nov-16	21-Dec-16	[Gantt bar: Nov 22, 2016 - Dec 21, 2016]											
Advertise Bid Package - CD Co-Gen Biogas Treatment Facilities	22-Dec-16		[Gantt bar: Dec 22, 2016 - Dec 22, 2016]											
Bid Solicitation Period - CD Co-Gen Biogas Treatment Facilities	22-Dec-16	04-Feb-17	[Gantt bar: Dec 22, 2016 - Feb 4, 2017]											
<b>Project Administration</b>														
WASD Project Administration - CD Co-Gen Biogas Treatment Facilities	04-Jun-15 A	19-Apr-19	[Gantt bar: Jun 4, 2015 - Apr 19, 2019]											
<b>2.21 Pump Station No.1</b>														
<b>Engineering Design</b>														
Engineering Design - CD Pump Station No. 1	13-Aug-15 A	03-Feb-17	[Gantt bar: Aug 13, 2015 - Feb 3, 2017]											
Negotiate Final Design - CD Pump Station No. 1	24-Nov-15 A	22-Jul-16	[Gantt bar: Nov 24, 2015 - Jul 22, 2016]											
30% Design Submittal - CD Pump Station No. 1	23-Jul-16	05-Sep-16	[Gantt bar: Jul 23, 2016 - Sep 5, 2016]											
Review ER for Additional Design Services - CD Pump Station No. 1	23-Jul-16		[Gantt bar: Jul 23, 2016 - Jul 23, 2016]											
30% Design Review - CD Pump Station No. 1	06-Sep-16	12-Sep-16	[Gantt bar: Sep 6, 2016 - Sep 12, 2016]											
60% Design Submittal - CD Pump Station No. 1	13-Sep-16	01-Nov-16	[Gantt bar: Sep 13, 2016 - Nov 1, 2016]											
60% Design Review - CD Pump Station No. 1	02-Nov-16	08-Nov-16	[Gantt bar: Nov 2, 2016 - Nov 8, 2016]											
100% Design Submittal - CD Pump Station No. 1	09-Nov-16	22-Dec-16	[Gantt bar: Nov 9, 2016 - Dec 22, 2016]											
100% Design Review/Permit Ready Submittal - CD Pump Station No. 1	23-Dec-16	03-Feb-17	[Gantt bar: Dec 23, 2016 - Feb 3, 2017]											
<b>Permitting</b>														
Permitting - CD Pump Station No. 1	23-May-16 A	02-Aug-17	[Gantt bar: May 23, 2016 - Aug 2, 2017]											
US ACE Permit - CD Pump Station No. 1	23-May-16 A	26-Nov-16	[Gantt bar: May 23, 2016 - Nov 26, 2016]											
<b>Project Administration</b>														
WASD Project Administration - CD Pump Station No. 1	31-Aug-15 A	09-Oct-19	[Gantt bar: Aug 31, 2015 - Oct 9, 2019]											
<b>2.22 Pump Station No.2</b>														
<b>Engineering Design</b>														
Engineering Design - CD Pump Station No. 2	15-Apr-15 A	11-Apr-16 A	[Gantt bar: Apr 15, 2015 - Apr 11, 2016]											
60% Design Submittal - CD Pump Station No. 2	19-Nov-15 A	27-Jan-16 A	[Gantt bar: Nov 19, 2015 - Jan 27, 2016]											

Activity Name	Start	Finish	2016											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
60% Design Review - CD Pump Station No. 2	28-Jan-16 A	03-Feb-16 A	■ 60% Design Review - CD Pump Station No. 2											
Develop Pre-Purchase Bid Packages (Odor Control, V	31-Jan-16 A	05-Apr-16 A	■ Develop Pre-Purchase Bid Packages (Odor Control, Valve, Flowmeter) - CD											
100% Design Submittal - CD Pump Station No. 2	04-Feb-16 A	09-Mar-16 A	■ 100% Design Submittal - CD Pump Station No. 2											
100% Design Review/Permit Ready Submittal - CD Pu	10-Mar-16 A	11-Apr-16 A	■ 100% Design Review/Permit Ready Submittal - CD Pump Station No. 2											
<b>Permitting</b>														
Permitting - CD Pump Station No. 2	12-Apr-16 A	10-Oct-16	▬ Permitting - CD Pump											
City of Miami Permit - CD Pump Station No. 2	12-Apr-16 A	10-Oct-16	▬ City of Miami Permit -											
Miami 21 Zoning Permit - CD Pump Station No. 2	18-Apr-16 A	10-Jun-16 A	▬ Miami 21 Zoning Permit - CD Pump Station No. 2											
EPA Compliance Date for Permitting - CD Pump Static		09-Nov-16*	◆ EPA Complia											
<b>Procurement</b>														
Review ER for Procurement - CD Pump Station No. 2	05-Apr-16 A		◆ Review ER for Procurement - CD Pump Station No. 2											
Advertise Pre-Purchase Package (Plug Valve) - CD Pl	06-Apr-16 A		◆ Advertise Pre-Purchase Package (Plug Valve) - CD Pump Station No. 2											
Advertise Pre-Purchase Package (Flow Meter) - CD Pi	06-Apr-16 A		◆ Advertise Pre-Purchase Package (Flow Meter) - CD Pump Station No. 2											
Vendor Bid & Award (Plug Valve) - CD Pump Station N	06-Apr-16 A	18-Apr-16 A	■ Vendor Bid & Award (Plug Valve) - CD Pump Station No. 2											
Vendor Bid & Award (Flow Meter) - CD Pump Station N	06-Apr-16 A	22-Apr-16 A	■ Vendor Bid & Award (Flow Meter) - CD Pump Station No. 2											
Vendor NTP (Plug Valve) - CD Pump Station No. 2	18-Apr-16 A		◆ Vendor NTP (Plug Valve) - CD Pump Station No. 2											
Fabricate & Deliver Plug Valve - CD Pump Station No. 2	18-Apr-16 A	26-Aug-16	▬ Fabricate & Deliver Plug Valve - CD											
Vendor NTP (Flow Meter) - CD Pump Station No. 2	22-Apr-16 A		◆ Vendor NTP (Flow Meter) - CD Pump Station No. 2											
Fabricate & Deliver Flow Meter - CD Pump Station No.	22-Apr-16 A	20-Jun-16 A	▬ Fabricate & Deliver Flow Meter - CD Pump Station No.											
Advertise Pre-Purchase Package (Odor Control) - CD I	17-Jun-16 A		◆ Advertise Pre-Purchase Package (Odor Control) - CD P											
Vendor Bid & Award (Odor Control) - CD Pump Station	17-Jun-16 A	28-Jul-16	▬ Vendor Bid & Award (Odor Control) - CD Pur											
Procurement - CD Pump Station No. 2	22-Jul-16	16-Nov-16	▬ Procurement											
Design Documents Sent to Procurement	22-Jul-16*		◆ Design Documents Sent to Procurement											
Submit/Approve SBD Goals and Request to Advertise	22-Jul-16	28-Jul-16	▬ Submit/Approve SBD Goals and Request to											
Advertise Bid Package - CD Pump Station No. 2	29-Jul-16		◆ Advertise Bid Package - CD Pump Station											
Bid Solicitation Period - CD Pump Station No. 2	29-Jul-16	27-Aug-16	▬ Bid Solicitation Period - CD Pump											
Vendor NTP (Odor Control) - CD Pump Station No. 2	29-Jul-16		◆ Vendor NTP (Odor Control) - CD Pump Stat											
Fabricate & Deliver Odor Control System - CD Pump S	29-Jul-16	14-Feb-17	▬											
Bids Due - CD Pump Station No. 2	26-Oct-16		◆ Bids Due - CD Pu											
Bid Review Period - CD Pump Station No. 2	26-Oct-16	01-Nov-16	▬ Bid Review Peri											
Award Recommendation - CD Pump Station No. 2		01-Nov-16	◆ Award Recomm											
Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Pump	02-Nov-16	16-Nov-16	▬ Final Appro											
<b>Construction</b>														
Construction - CD Pump Station No. 2	17-Nov-16	30-Aug-17	▬											
Contractor Notice to Proceed (NTP) - CD Pump Statio	17-Nov-16		◆ Contractor											
<b>Project Administration</b>														
WASD Project Administration - CD Pump Station No. 2	16-Apr-15 A	28-Nov-17	▬											
<b>2.23 O2 Plant Process Controls Phase 2</b>														
<b>Procurement</b>														
EPA Compliance Date for Procurement - CD O2 Plant		02-Feb-16 A	◆ EPA Compliance Date for Procurement - CD O2 Plant Process Controls Phase 2											
<b>Construction</b>														
Construction - CD O2 Plant Process Controls Phase 2	20-Apr-15 A	25-Apr-16 A	▬ Construction - CD O2 Plant Process Controls Phase 2											
Substantial Completion (CD Compliance Date 3/09/17)		25-Apr-16 A	◆ Substantial Completion (CD Compliance Date 3/09/17) - CD O2 Plant P											
Project Closeout - CD O2 Plant Process Controls Pha	26-Apr-16 A	24-Jul-16*	▬ Project Closeout - CD O2 Plant Process Con											
<b>Project Administration</b>														
WASD Project Administration - CD O2 Plant Process	01-Oct-13 A	24-Jul-16	▬ WASD Project Administration - CD O2 Plant											
<b>2.24 Gas Monitoring and Alarms</b>														

WASD Consent Decree Schedule - June 2016 Update			Six Month Schedule Layout						25-Jul-16 12:54 - Page No. 19 of 47					
Activity Name	Start	Finish	2016											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Permitting</b>														
Permitting - CD Gas Monitoring and Alarms	24-Aug-15 A	27-Feb-16 A	Permitting - CD Gas Monitoring and Alarms											
EPA Compliance Date for Permitting - CD Gas Monitor		19-Apr-16 A	◆ EPA Compliance Date for Permitting - CD Gas Monitoring and Alarms											
<b>Procurement</b>														
Procurement - CD Gas Monitoring and Alarms	28-Feb-16 A	23-Nov-16	Procurement - CD Gas Monitoring and Alarms											
<b>Construction</b>														
Construction - CD Gas Monitoring and Alarms	24-Nov-16	29-Jul-17	Construction - CD Gas Monitoring and Alarms											
Contractor Notice to Proceed (NTP) - CD Gas Monitori	24-Nov-16		◆ Contractor Notice to Proceed (NTP) - CD Gas Monitoring and Alarms											
<b>Project Administration</b>														
WASD Project Administration - CD Gas Monitoring and	13-Apr-15 A	27-Oct-17	WASD Project Administration - CD Gas Monitoring and Alarms											
<b>2.25 Ventilation Improvements</b>														
<b>Engineering Design</b>														
Engineering Design - CD Ventilation Improvements	11-Jun-14 A	05-Jun-20	Engineering Design - CD Ventilation Improvements											
<b>Permitting</b>														
Permitting - CD Ventilation Improvements	30-Sep-15 A	02-Dec-20	Permitting - CD Ventilation Improvements											
<b>Procurement</b>														
Procurement - CD Ventilation Improvements	15-Apr-16 A	29-Aug-21	Procurement - CD Ventilation Improvements											
<b>Construction</b>														
EPA Compliance Date for Construction - CD Ventilation		30-Jun-16	◆ EPA Compliance Date for Construction - CD Ventilation Improvements											
Construction - CD Ventilation Improvements	03-Sep-16	22-Apr-23	Construction - CD Ventilation Improvements											
<b>Project Administration</b>														
WASD Project Administration - CD Ventilation Improve	11-Jun-14 A	21-Jul-23	WASD Project Administration - CD Ventilation Improvements											
<b>2.25 (2) Headworks HVAC Improvements (Project 2.03/2.04)</b>														
<b>Permitting</b>														
Permitting - Headworks HVAC Improvements (Project	29-Jan-16 A	31-Jul-16	Permitting - Headworks HVAC Improvements (Project 2.03/2.04)											
<b>Procurement</b>														
Procurement - Headworks HVAC Improvements (Proje	25-Apr-16 A	02-Sep-16	Procurement - Headworks HVAC Improvements (Project 2.03/2.04)											
<b>Construction</b>														
Construction - Headworks HVAC Improvements (Proje	03-Sep-16	16-Mar-18	Construction - Headworks HVAC Improvements (Project 2.03/2.04)											
<b>2.25 (3) Digester Control Building HVAC Improvements (Project 2.15)</b>														
<b>Permitting</b>														
Permitting - Digester Control Building HVAC Improvem	30-Sep-15 A	15-Jul-16	Permitting - Digester Control Building HVAC Improvements (Project 2.15)											
<b>Procurement</b>														
Procurement - Digester Control Building HVAC Improv	15-Apr-16 A	05-Oct-16	Procurement - Digester Control Building HVAC Improvements (Project 2.15)											
<b>Construction</b>														
Construction - Digester Control Building HVAC Improv	06-Oct-16	18-Oct-17	Construction - Digester Control Building HVAC Improvements (Project 2.15)											
<b>2.25 (4) Pump Station 1 HVAC Improvements (Project 2.21)</b>														
<b>Engineering Design</b>														
Engineering Design - Pump Station 1 HVAC Improvem	23-Jul-16	03-Feb-17	Engineering Design - Pump Station 1 HVAC Improvements (Project 2.21)											
<b>Permitting</b>														
Permitting - Pump Station 1 HVAC Improvements (Prc	23-May-16 A	02-Aug-17	Permitting - Pump Station 1 HVAC Improvements (Project 2.21)											
<b>2.25 (5) Pump Station 2 HVAC Improvements (Project 2.22)</b>														
<b>Engineering Design</b>														
Engineering Design - Pump Station 2 HVAC Improvem	15-Apr-15 A	13-Apr-16 A	Engineering Design - Pump Station 2 HVAC Improvements (Project 2.22)											
<b>Permitting</b>														
Permitting - Pump Station 2 HVAC Improvements (Prc	12-Apr-16 A	10-Oct-16	Permitting - Pump Station 2 HVAC Improvements (Project 2.22)											
<b>Procurement</b>														
Procurement - Pump Station 2 HVAC Improvements (f	22-Jul-16	16-Nov-16	Procurement - Pump Station 2 HVAC Improvements (Project 2.22)											
<b>Construction</b>														





WASD Consent Decree Schedule - June 2016 Update				Six Month Schedule Layout				25-Jul-16 12:54 - Page No. 22 of 47							
Activity Name	Start	Finish	2016												
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>Permitting</b>															
Permitting - ND Disinfection	15-Jul-16*	10-Jan-17													
<b>Procurement</b>															
Review ER for Procurement - ND Disinfection 1	12-Nov-16		◆ Review ER f												
<b>Project Administration</b>															
WASD Project Administration - ND Disinfection 1	11-Jun-15 A	11-Jun-19													
<b>3.07 Effluent Disposal</b>															
<b>Engineering Design</b>															
EPA Compliance Date for Engineering Design - ND Eff		12-Sep-16*	◆ EPA Compliance Date for Eng												
<b>Procurement</b>															
1a - Submit/Approve SBD Goals and Rquest to Advert	05-May-16 A	02-Jun-16 A	1a - Submit/Approve SBD Goals and Rquest to Advertise - I												
1a - Procurement - DIW Pump Station Mechanical	06-May-16 A	11-Sep-16	1a - Procurement - DIW Pump												
1a - Design Documents Sent to Procurement - DIW Pt	06-May-16 A		◆ 1a - Design Documents Sent to Procurement - DIW Pump Station M												
1a - Advertise Bid Package - DIW Pump Station Mech	03-Jun-16 A		◆ 1a - Advertise Bid Package - DIW Pump Station Mechanical												
1a - Bid Solicitation Period - DIW Pump Station Mech	03-Jun-16 A	13-Jul-16	1a - Bid Solicitation Period - DIW Pump Station												
1a - Bids Due - DIW Pump Station Mechanical	14-Jul-16		◆ 1a - Bids Due - DIW Pump Station Mechanical												
1a - Bid Review Period - DIW Pump Station Mechanical	14-Jul-16	12-Aug-16	1a - Bid Review Period - DIW Pump Sta												
1a - Award Recommendation - DIW Pump Station Mec		12-Aug-16	◆ 1a - Award Recommendation - DIW Pur												
1a - Final Approvals (BCC, Mayor, Risk Mgmt.) - DIW	13-Aug-16	11-Sep-16	1a - Final Approvals (BCC, Ma												
<b>Construction</b>															
Construction (Summary) - ND Effluent Disposal	18-Feb-15 A	17-Dec-17													
1a - Construction - DIW Pump Station Mechanical	12-Sep-16	17-Dec-17													
1a - Contractor Notice to Proceed (NTP) - DIW Pump :	12-Sep-16		◆ 1a - Contractor Notice to Proce												
<b>Project Administration</b>															
WASD Project Administration - DIW Pump Station Ele	10-Jun-14 A	17-Mar-18													
<b>3.08 Plant Wide Electrical</b>															
<b>Procurement</b>															
Procurement - ND Plant Wide Electrical	12-Mar-15 A	03-Jan-21													
<b>Construction</b>															
Construction - ND Plant Wide Electrical	01-Oct-15 A	27-Feb-22													
<b>Project Administration</b>															
WASD Project Administration - ND Plant Wide Electrica	01-May-14 A	27-Feb-22													
<b>3.08 (1) - NDWWTP General Electrical In-house Construction (Feeders 1-2, Feeders</b>															
<b>Construction</b>															
Construction Feeder Segments 1 & 2 (WASD) - ND PI	01-Oct-15 A	15-Jan-16 A	Construction Feeder Segments 1 & 2 (WASD) - ND Plant Wide Electrical												
<b>3.08 (2) - Electrical Feeders 3-6 (Project 3.01)</b>															
<b>Construction</b>															
Construction Feeder Segments 3-6 (3.01) - ND Plant V	02-Nov-15 A	27-Sep-17													
<b>3.09 Flood Mitigation</b>															
<b>Procurement</b>															
Procurement - ND Flood Mitigation	01-May-15 A	30-Jun-16	Procurement - ND Flood Mitigation												
EPA Compliance Date for Procurement - ND Flood Mit		25-Nov-16*	◆ EPA Cor												
<b>Construction</b>															
Construction - ND Flood Mitigation	01-May-15 A	14-Aug-16	Construction - ND Flood Mitigation												
Substantial Completion (CD Compliance Date 8/13/17)		14-Aug-16*	◆ Substantial Completion (CD Complianc												
Project Closeout - ND Flood Mitigation	15-Aug-16	12-Nov-16*	Project Clos												
<b>Project Administration</b>															
WASD Project Administration - ND Flood Mitigation	04-Apr-14 A	14-Aug-16	WASD Project Administration - ND Flo												

Activity Name	Start	Finish	2016											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

**3.10 Yard Piping Replacement**

**Construction**

Construction - ND Yard Piping Replacement	25-May-15 A	24-May-16 A	Construction - ND Yard Piping Replacement											
Rehab 2nd 84" Pipe - ND Yard Piping Replacement	03-Mar-16 A	24-May-16 A	Rehab 2nd 84" Pipe - ND Yard Piping Replacement											
Substantial Completion (CD Compliance Date 12/04/21)		24-May-16 A	◆ Substantial Completion (CD Compliance Date 12/04/21) - ND Y											
Project Closeout - ND Yard Piping Replacement	25-May-16 A	22-Aug-16*	Project Closeout - ND Yard Piping R											

**Project Administration**

WASD Project Administration - ND Secondary Clarifiers	06-Apr-15 A	24-May-16 A	WASD Project Administration - ND Secondary Clarifiers											
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**3.CM NDWWTP Construction Management Office**

**Pre-Design**

Pre-Design - NDWWTP CM Office	04-Jan-16 A	02-May-16 A	Pre-Design - NDWWTP CM Office											
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**Engineering Design**

Review ER for Engineering Design - NDWWTP CM Of	30-Mar-16 A		◆ Review ER for Engineering Design - NDWWTP CM Office											
Engineering Design - NDWWTP CM Office	03-May-16 A	05-Dec-16	Engin											

**Permitting**

Permitting - NDWWTP CM Office	06-Dec-16	05-Mar-17												
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**4. Wastewater Collection & Transmission Line**

**4.01 Collection System I/I Repairs**

**Construction**

Construction - Collection System I/I Repair	01-Oct-13 A	30-Sep-24												
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**4.01 (1.0) - PMCM CIPP I/I Repairs**

**Engineering Design**

CIPP Specifications & Scope to MDWASD - 2016/201	01-May-16 A	24-Jun-16 A	CIPP Specifications & Scope to MDWASD - 2016/20											
--	-------------	-------------	---	--	--	--	--	--	--	--	--	--	--	--

**Procurement**

CIPP Contractor Procurement - 2016/2017 Fiscal Year	30-Jun-16*	29-Sep-16	CIPP Contractor Procure											
Review ER for Procurement - CIPP - 2016/2017 Fiscal	15-Jul-16*		◆ Review ER for Procurement - CIPP - 2016/2017											

**Construction**

CIPP Contract (Construction) - 2015/2016 Fiscal Year	07-Dec-15 A	30-Sep-16	CIPP Contract (Construc											
CIPP Contract (Construction) - 2016/2017 Fiscal Year	01-Oct-16*	30-Sep-17												

**4.01 (1.1) - PMCM Dig & Replace I/I Repairs**

**Engineering Design**

Dig & Replace Specifications & Scope to MDWASD -	01-May-16 A	31-Jul-16	Dig & Replace Specifications & Scope to M											
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**Procurement**

Dig & Replace Contractor C Procurement - 2015/2016	01-Mar-15 A	18-Jan-16 A	Dig & Replace Contractor C Procurement - 2015/2016 Fiscal Year											
Review ER for Procurement - Dig & Replace - 2016/20	20-Jul-16*		◆ Review ER for Procurement - Dig & Replace -											
Dig & Replace Contractor Procurement - 2016/2017 Fi	01-Aug-16	30-Sep-16	Dig & Replace Contracto											

**Construction**

Dig & Replace Contract B (Construction) - 2015/2016 F	19-Oct-15 A	31-Aug-16	Dig & Replace Contract B (Constr											
Dig & Replace Contract A (Construction) - 2015/2016 F	26-Oct-15 A	25-Oct-16	Dig & Replace Co											
Dig & Replace Contract C (Construction) - 2015/2016 F	18-Jan-16 A	16-Jan-17												
Dig & Replace Contract Countywide (Construction) - 2(	01-Oct-16*	30-Sep-17												
Dig & Replace Contract City of Miami (Construction) -	01-Oct-16*	30-Sep-17												

**4.01 (1.2) - PMCM SSES I/I**

**Engineering Design**

SSES Specifications & Scope to MDWASD - 2016/20	06-Jun-16 A	05-Jul-16	SSES Specifications & Scope to MDWASD - 2016											
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**Procurement**

SSES (CCTV) Procurement - 2015/2016 Fiscal Year	01-Mar-15 A	23-Feb-16 A	SSES (CCTV) Procurement - 2015/2016 Fiscal Year											
SSES Contractor Procurement - 2016/2017 Fiscal Yea	06-Jul-16	30-Sep-16	SSES Contractor Procur											

WASD Consent Decree Schedule - June 2016 Update				Six Month Schedule Layout						25-Jul-16 12:54 - Page No. 24 of 47							
Activity Name	Start	Finish	2016														
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Review ER for Procurement - SSES - 2016/2017 Fiscal Year	15-Jul-16*																◆ Review ER for Procurement - SSES - 2016/2017
<b>Construction</b>																	
SSES Construction (CCTV) - 2015/2016 Fiscal Year (T	14-Mar-16 A	14-Mar-17															
SSES Contract (Construction) - 2016/2017 Fiscal Year	01-Oct-16*	30-Sep-17															
<b>4.01 (2) - PSIP Program I/I Repairs</b>																	
<b>Construction</b>																	
Construction - PSIP Program I/I Repair (MDWASD )	01-Oct-13 A	29-Dec-23															
<b>4.01 (3) - MDWASD CM Team I/I Repairs</b>																	
<b>Construction</b>																	
Construction -MDWASD CM Team I/I Repair (MDWAS	01-Oct-13 A	29-Dec-23															
<b>4.01 (4) - WWCTLD WASD In-House I/I Repairs</b>																	
<b>Construction</b>																	
Construction - WWCTLD WASD In-House I/I Repair (I	01-Oct-13 A	29-Dec-23															
<b>4.03 Government Cut FM - Phase 3</b>																	
<b>Design-Build</b>																	
Construction - Government Cut FM Phase 3	23-May-14 A	22-Aug-16															
Substantial Completion (CD Compliance Date 4/08/17)		22-Aug-16*															◆ Substantial Completion (CD Complia
<b>Project Administration</b>																	
WASD Project Administration - Government Cut FM P	30-Jan-13 A	20-Nov-16															WASD Pr
<b>No Consent Decree Phase</b>																	
Project Closeout - Government Cut FM Phase 3	23-Aug-16	20-Nov-16*															Project Cl
<b>4.04 North Dade 72 inch PCCP FM Rehabilitation</b>																	
<b>Procurement</b>																	
EPA Compliance Date for Procurement - North Dade 7		05-Mar-16 A															◆ EPA Compliance Date for Procurement - North Dade 72" PCCP FM Rehab
<b>Design-Build</b>																	
Construction - North Dade 72" PCCP FM Rehab	30-Sep-15 A	05-May-16 A															Construction - North Dade 72" PCCP FM Rehab
Substantial Completion (CD Compliance Date 3/05/18)		05-May-16 A															◆ Substantial Completion (CD Compliance Date 3/05/18) - North Dade
Project Closeout - North Dade 72" PCCP FM Rehab	06-May-16 A	03-Aug-16*															Project Closeout - North Dade 72" PCCP F
<b>Project Administration</b>																	
WASD Project Administration - North Dade 72" PCCP	01-Feb-13 A	03-Aug-16															WASD Project Administration - North Dade
<b>4.05 South Dade 54 inch PCCP FM Rehabilitation</b>																	
<b>Permitting</b>																	
Permitting - South Dade 54" PCCP FM Rehab	14-Oct-15 A	19-Feb-16 A															Permitting;- South Dade 54" PCCP FM Rehab
<b>Procurement</b>																	
Procurement - South Dade 54" PCCP FM Rehab	03-Jun-16 A	19-Aug-16															Procurement - South Dade 54" PCCP
EPA Compliance Date for Procurement - South Dade		14-Oct-16*															◆ EPA Compliance Dat
<b>Construction</b>																	
Construction - South Dade 54" PCCP FM Rehab	20-Aug-16	11-Aug-17															
<b>4.05 (1) 48/54" FM from SW 127 Ave/SW 280 St. to SW 107 Ave/SW 248 St (Phase 1)</b>																	
<b>Permitting</b>																	
Permitting - 48/54 Inch FM (Phase 1)	14-Oct-15 A	19-Feb-16 A															Permitting;- 48/54 Inch FM (Phase 1)
<b>Procurement</b>																	
Review ER for Procurement - 48/54 Inch FM (Phase 1)	19-Feb-16 A																◆ Review ER for Procurement - 48/54 Inch FM (Phase 1)
Submit/Approve SBD Goals and Request to Advertise	21-Mar-16 A	06-May-16 A															Submit/Approve SBD Goals and Request to Advertise - 48/54 Inch
Pre-Purchase 54" Pipe & Valves - 48/54 Inch FM (Pha	25-Apr-16 A	04-Apr-17															
Pre-Purchase Bid Package - 48/54 Inch FM (Phase 1)	25-Apr-16 A	02-Jun-16 A															Pre-Purchase Bid Package - 48/54 Inch FM (Phase 1)
Procurement - 48/54 Inch FM (Phase 1)	03-Jun-16 A	19-Aug-16															Procurement - 48/54 Inch FM (Phase
Design Documents Sent to Procurement - 48/54 Inch I	03-Jun-16 A																◆ Design Documents Sent to Procurement - 48/54 Inch FM (P





WASD Consent Decree Schedule - June 2016 Update			Six Month Schedule Layout						25-Jul-16 12:54 - Page No. 27 of 47					
Activity Name	Start	Finish	2016											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Procurement</b>														
Procurement - 4.09 (2)	26-Oct-15 A	16-May-16 A							Procurement - 4.09 (2)					
Bid Review Period - 4.09 (2)	14-Dec-15 A	15-Jan-16 A	■						◆ Bid Review Period - 4.09 (2)					
Award Recommendation - 4.09 (2)		15-Jan-16 A							◆ Award Recommendation - 4.09 (2)					
Final Approvals - 4.09 (2)	16-Jan-16 A	16-May-16 A	■						Final Approvals - 4.09 (2)					
<b>Construction</b>														
Construction - 4.09 (2)	17-May-16 A	14-Feb-17							■					
Contractor Notice to Proceed (NTP) - 4.09 (2)	17-May-16 A								◆ Contractor Notice to Proceed (NTP) - 4.09 (2)					
<b>Project Administration</b>														
WASD Project Administration - 4.09 (2)	24-Apr-14 A	15-May-17												
<b>4.09 (6-7) Replace 325LF of 6" ACP FM from PS #0362 to NW52nd Ct. and 190th St.</b>														
<b>Permitting</b>														
Permitting - 4.09 (6-7)	03-Nov-15 A	06-Apr-16 A	■						Permitting - 4.09 (6-7)					
<b>Procurement</b>														
Submit/Approve SBD Goals and Request to Advertise	15-Apr-16 A	29-Jun-16 A							■					
Procurement - 4.09 (6-7)	15-Apr-16 A	09-Sep-16							■					
Design Documents Sent to Procurement - 4.09 (6-7)	15-Apr-16 A								◆ Design Documents Sent to Procurement - 4.09 (6-7)					
Advertise Bid Package - 4.09 (6-7)	30-Jun-16								◆ Advertise Bid Package - 4.09 (6-7)					
Bid Solicitation Period - 4.09 (6-7)	30-Jun-16	26-Jul-16							■					
Review ER for Procurement - 4.09 (6-7)	30-Jun-16*								◆ Review ER for Procurement - 4.09 (6-7)					
Bids Due - 4.09 (6-7)	27-Jul-16								◆ Bids Due - 4.09 (6-7)					
Bid Review Period - 4.09 (6-7)	27-Jul-16	10-Aug-16							■					
Award Recommendation - 4.09 (6-7)		10-Aug-16							◆ Award Recommendation - 4.09 (6-7)					
Final Approvals - 4.09 (6-7)	11-Aug-16	09-Sep-16							■					
<b>Construction</b>														
Construction - 4.09 (6-7)	10-Sep-16	09-Mar-17							■					
Contractor Notice to Proceed (NTP) - 4.09 (6-7)	10-Sep-16								◆ Contractor Notice to Proceed (NTP) - 4.09 (6-7)					
<b>Project Administration</b>														
WASD Project Administration - 4.09 (6-7)	27-Mar-15 A	07-Jun-17												
<b>4.09 (20-21) Replace 467LF 8" ACP FM from PS#0366 to NW42ndPI/199thTer.&amp; 1792</b>														
<b>Procurement</b>														
Procurement - 4.09 (20-21)	22-Dec-15 A	09-Jun-16 A							■					
Submit/Approve SBD Goals and Request to Advertise	22-Dec-15 A	06-Mar-16 A	■						Submit/Approve SBD Goals and Request to Advertise - 4.09 (20-21)					
Advertise Bid Package - 4.09 (20-21)	07-Mar-16 A								◆ Advertise Bid Package - 4.09 (20-21)					
Bid Solicitation Period - 4.09 (20-21)	07-Mar-16 A	05-Apr-16 A	■						Bid Solicitation Period - 4.09 (20-21)					
Bids Due - 4.09 (20-21)	06-Apr-16 A								◆ Bids Due - 4.09 (20-21)					
Bid Review Period - 4.09 (20-21)	06-Apr-16 A	28-Apr-16 A	■						Bid Review Period - 4.09 (20-21)					
Award Recommendation - 4.09 (20-21)		28-Apr-16 A							◆ Award Recommendation - 4.09 (20-21)					
Final Approvals - 4.09 (20-21)	28-Apr-16 A	09-Jun-16 A	■						Final Approvals - 4.09 (20-21)					
P.O. Issued - 4.09 (20-21)		09-Jun-16 A							◆ P.O. Issued - 4.09 (20-21)					
<b>Construction</b>														
Construction - 4.09 (20-21)	30-Jun-16	31-Mar-17							■					
Contractor Notice to Proceed (NTP) - 4.09 (20-21)	30-Jun-16*								◆ Contractor Notice to Proceed (NTP) - 4.09 (20-21)					
<b>Project Administration</b>														
WASD Project Administration - 4.09 (20-21)	01-May-15 A	29-Jun-17												
<b>4.09 (22) Replacement of 2,013 LF of 6" ACP FM from PS#358 to PS#0352</b>														
<b>Procurement</b>														

WASD Consent Decree Schedule - June 2016 Update			Six Month Schedule Layout						25-Jul-16 12:54 - Page No. 28 of 47					
Activity Name	Start	Finish	2016											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Procurement - 4.09 (22)</b>	18-Dec-15 A	20-May-16 A	Procurement - 4.09 (22)											
Submit/Approve SBD Goals and Request to Advertise	18-Dec-15 A	06-Mar-16 A	Submit/Approve SBD Goals and Request to Advertise - 4.09 (22)											
Advertise Bid Package - 4.09 (22)	07-Mar-16 A		◆ Advertise Bid Package - 4.09 (22)											
Bid Solicitation Period - 4.09 (22)	07-Mar-16 A	03-Apr-16 A	Bid Solicitation Period - 4.09 (22)											
Bids Due - 4.09 (22)	04-Apr-16 A		◆ Bids Due - 4.09 (22)											
Bid Review Period - 4.09 (22)	04-Apr-16 A	10-Apr-16 A	Bid Review Period - 4.09 (22)											
Award Recommendation - 4.09 (22)		11-Apr-16 A	◆ Award Recommendation - 4.09 (22)											
Final Approvals - 4.09 (22)	12-Apr-16 A	20-May-16 A	Final Approvals - 4.09 (22)											
P.O. Issued - 4.09 (22)		20-May-16 A	◆ P.O. Issued - 4.09 (22)											
<b>Construction</b>														
Construction - 4.09 (22)	18-Jul-16	16-Mar-17	Construction - 4.09 (22)											
Contractor Notice to Proceed (NTP) - 4.09 (22)	18-Jul-16*		◆ Contractor Notice to Proceed (NTP) - 4.09 (22)											
<b>Project Administration</b>														
WASD Project Administration - 4.09 (22)	01-May-15 A	14-Jun-17	WASD Project Administration - 4.09 (22)											
<b>4.09 (23) Replacement of 1857 LF of 8" ACP FM from PS#1022 to SW 352nd St &amp; 286</b>														
<b>Engineering Design</b>														
Engineering Design - 4.09 (23)	14-Dec-15 A	28-Apr-16 A	Engineering Design - 4.09 (23)											
30% Design Submittal - 4.09 (23)	17-Dec-15 A	25-Feb-16 A	30% Design Submittal - 4.09 (23)											
60% Design Submittal - 4.09 (23)	25-Feb-16 A	25-Mar-16 A	60% Design Submittal - 4.09 (23)											
90% Design Submittal - 4.09 (23)	26-Mar-16 A	28-Apr-16 A	90% Design Submittal - 4.09 (23)											
90% Design Review - 4.09 (23)	29-Apr-16 A	06-May-16 A	90% Design Review - 4.09 (23)											
100% Design Submittal Permit Ready - 4.09 (23)	07-May-16 A	31-Jul-16	100% Design Submittal Permit Ready - 4.09 (23)											
<b>Permitting</b>														
Permitting - 4.09 (23)	01-Aug-16	08-Oct-16	Permitting - 4.09 (23)											
RER DERM Permit - 4.09 (23)	01-Aug-16	08-Oct-16	RER DERM Permit - 4.09 (23)											
Public Works Permit - 4.09 (23)	01-Aug-16	08-Oct-16	Public Works Permit - 4.09 (23)											
<b>Procurement</b>														
Review ER for Procurement - 4.09 (23)	01-Sep-16*		◆ Review ER for Procurement - 4.09 (23)											
Procurement - 4.09 (23)	09-Oct-16	21-Jan-17	Procurement - 4.09 (23)											
Design Documents Sent to Procurement - 4.09 (23)	09-Oct-16		◆ Design Documents Sent to Procurement - 4.09 (23)											
Submit/Approve SBD Goals and Request to Advertise	09-Oct-16	07-Nov-16	Submit/Approve SBD Goals and Request to Advertise - 4.09 (23)											
Advertise Bid Package - 4.09 (23)	08-Nov-16		◆ Advertise Bid Package - 4.09 (23)											
Bid Solicitation Period - 4.09 (23)	08-Nov-16	07-Dec-16	Bid Solicitation Period - 4.09 (23)											
Bids Due - 4.09 (23)	08-Dec-16		◆ Bids Due - 4.09 (23)											
Bid Review Period - 4.09 (23)	08-Dec-16	22-Dec-16	Bid Review Period - 4.09 (23)											
Award Recommendation - 4.09 (23)		22-Dec-16	◆ Award Recommendation - 4.09 (23)											
Final Approvals - 4.09 (23)	23-Dec-16	21-Jan-17	Final Approvals - 4.09 (23)											
<b>Project Administration</b>														
WASD Project Administration - 4.09 (23)	17-Dec-15 A	26-May-18	WASD Project Administration - 4.09 (23)											
<b>4.09 (24) Replacement of 840 LF of 8" ACP FM Along NW 49th Ct. from PS#0353 to</b>														
<b>Engineering Design</b>														
Engineering Design - 4.09 (24)	23-Mar-15 A	18-Feb-16 A	Engineering Design - 4.09 (24)											
<b>Permitting</b>														
Permitting - 4.09 (24)	19-Feb-16 A	31-Mar-16 A	Permitting - 4.09 (24)											
<b>Procurement</b>														
Procurement - 4.09 (24)	07-Apr-16 A	30-Jun-16	Procurement - 4.09 (24)											
Design Documents Sent to Procurement - 4.09 (24)	07-Apr-16 A		◆ Design Documents Sent to Procurement - 4.09 (24)											







Activity Name	Start	Finish	2016											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Procurement - 4.09 (47)	22-Dec-15 A	27-May-16 A	Procurement - 4.09 (47)											
Submit/Approve SBD Goals and Request to Advertise	22-Dec-15 A	14-Mar-16 A	Submit/Approve SBD Goals and Request to Advertise - 4.09 (47)											
Advertise Bid Package - 4.09 (47)	15-Mar-16 A		◆ Advertise Bid Package - 4.09 (47)											
Bid Solicitation Period - 4.09 (47)	15-Mar-16 A	13-Apr-16 A	■ Bid Solicitation Period - 4.09 (47)											
Bids Due - 4.09 (47)	14-Apr-16 A		◆ Bids Due - 4.09 (47)											
Bid Review Period - 4.09 (47)	14-Apr-16 A	28-Apr-16 A	■ Bid Review Period - 4.09 (47)											
Award Recommendation - 4.09 (47)		28-Apr-16 A	◆ Award Recommendation - 4.09 (47)											
Final Approvals - 4.09 (47)	29-Apr-16 A	27-May-16 A	■ Final Approvals - 4.09 (47)											
<b>Construction</b>														
Construction - 4.09 (47)	13-Jul-16	12-Jan-17	■ Construction - 4.09 (47)											
Contractor Notice to Proceed (NTP) - 4.09 (47)	13-Jul-16*		◆ Contractor Notice to Proceed (NTP) - 4.09 (47)											
<b>Project Administration</b>														
WASD Project Administration - 4.09 (47)	01-May-15 A	12-Apr-17	■ WASD Project Administration - 4.09 (47)											
<b>4.09 (48-53, 63) Replace 8" &amp; 10" ACP FM with 16", 12" &amp; 8" DIP - SW142 Ave/SW28</b>														
<b>Engineering Design</b>														
Engineering Design - 4.09 (48-53, 63)	22-Dec-15 A	09-Jul-16	■ Engineering Design - 4.09 (48-53, 63)											
30% Design Submittal - 4.09 (48-53, 63)	14-Mar-16 A	13-Apr-16 A	■ 30% Design Submittal - 4.09 (48-53, 63)											
30% Design Review - 4.09 (48-53, 63)	14-Apr-16 A	20-Apr-16 A	■ 30% Design Review - 4.09 (48-53, 63)											
60% Design Submittal - 4.09 (48-53, 63)	21-Apr-16 A	03-Jun-16 A	■ 60% Design Submittal - 4.09 (48-53, 63)											
60% Design Review - 4.09 (48-53, 63)	04-Jun-16 A	09-Jun-16 A	■ 60% Design Review - 4.09 (48-53, 63)											
90% Design Submittal - 4.09 (48-53, 63)	10-Jun-16 A	30-Jun-16	■ 90% Design Submittal - 4.09 (48-53, 63)											
90% Design Review - 4.09 (48-53, 63)	30-Jun-16	09-Jul-16	■ 90% Design Review - 4.09 (48-53, 63)											
<b>Permitting</b>														
Permitting - 4.09 (48-53, 63)	10-Jul-16	05-Jan-17	■ Permitting - 4.09 (48-53, 63)											
<b>Procurement</b>														
Review ER for Procurement - 4.09 (48-53, 63)	07-Nov-16		◆ Review ER for Procurement - 4.09 (48-53, 63)											
<b>Project Administration</b>														
WASD Project Administration - 4.09 (48-53, 63)	14-Mar-16 A	02-Sep-19	■ WASD Project Administration - 4.09 (48-53, 63)											
<b>4.09 (54-56) Replace 5285LF of 12" ACP FM - SW 72nd St from 137th to 147th Ave &amp;</b>														
<b>Pre-Design</b>														
Pre-Design - 4.09 (54-56)	30-Jun-16*	28-Aug-16	■ Pre-Design - 4.09 (54-56)											
<b>Engineering Design</b>														
Review ER for Engineering Design - 4.09 (54-56)	01-Jul-16*		◆ Review ER for Engineering Design - 4.09 (54-56)											
Engineering Design - 4.09 (54-56)	29-Aug-16	24-Feb-17	■ Engineering Design - 4.09 (54-56)											
<b>Project Administration</b>														
WASD Project Administration - 4.09 (54-56)	30-Jun-16	14-Jun-19	■ WASD Project Administration - 4.09 (54-56)											
<b>4.09 (57-59) Replace 1183LF 8", 2129LF 10" &amp; 1750LF 12" ACP FM-Kendale Lakes Bl</b>														
<b>Pre-Design</b>														
Pre-Design - 4.09 (57-59)	30-Jun-16*	28-Aug-16	■ Pre-Design - 4.09 (57-59)											
<b>Engineering Design</b>														
Review ER for Engineering Design - 4.09 (57-59)	01-Jul-16*		◆ Review ER for Engineering Design - 4.09 (57-59)											
Engineering Design - 4.09 (57-59)	29-Aug-16	24-Feb-17	■ Engineering Design - 4.09 (57-59)											
<b>Project Administration</b>														
WASD Project Administration - 4.09 (57-59)	29-Aug-16	14-Jun-19	■ WASD Project Administration - 4.09 (57-59)											
<b>4.09 (60-62) Replace 1500LF 8" ACP FM (PS#1013 - PS#1012), 2550LF 10" (SW144th</b>														
<b>Pre-Design</b>														
Pre-Design - 4.09 (60-62)	01-Jul-16*	28-Oct-16	■ Pre-Design - 4.09 (60-62)											
<b>Engineering Design</b>														

WASD Consent Decree Schedule - June 2016 Update				Six Month Schedule Layout						25-Jul-16 12:54 - Page No. 33 of 47							
Activity Name	Start	Finish	2016														
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Review ER for Engineering Design - 4.09 (60-62)	30-Aug-16												◆ Review ER for Engineering Design				
Engineering Design - 4.09 (60-62)	29-Oct-16	26-May-17															
30% Design Submittal - 4.09 (60-62)	29-Oct-16	27-Dec-16															
30% Design Review - 4.09 (60-62)	28-Dec-16	06-Jan-17															
<b>Project Administration</b>																	
WASD Project Administration - 4.09 (60-62)	29-Oct-16	04-Sep-19															
<b>4.09 (64) Replacement of 1,236 LF of 6" ACP FM Along SW 296th St. from PS#1009</b>																	
<b>Pre-Design</b>																	
Pre-Design - 4.9 (64)	01-Sep-16*	30-Oct-16															Pre-Design - 4.9
<b>Engineering Design</b>																	
Review ER for Engineering Design - 4.09 (64)	01-Sep-16																◆ Review ER for Engineering Design
Engineering Design - 4.09 (64)	31-Oct-16	28-Jan-17															
<b>Project Administration</b>																	
WASD Project Administration - 4.09 (64)	31-Oct-16	23-Mar-19															
<b>4.09 (65) Replacement of 2250 LF of 6" ACP FM from PS#1002 to SW 152nd Ave. ar</b>																	
<b>Pre-Design</b>																	
Pre-Design - 4.09 (65)	01-Jul-16*	29-Aug-16															Pre-Design - 4.09 (65)
<b>Engineering Design</b>																	
Review ER for Engineering Design - 4.09 (65)	01-Jul-16																◆ Review ER for Engineering Design - 4.09 (65)
Engineering Design - 4.09 (65)	30-Aug-16	27-Nov-16															Enginee
<b>Permitting</b>																	
Permitting - 4.09 (65)	28-Nov-16	25-Feb-17															
<b>Procurement</b>																	
Review ER for Procurement - 4.09 (65)	28-Dec-16																◆
<b>Project Administration</b>																	
WASD Project Administration - 4.09 (65)	30-Aug-16	10-May-18															
<b>4.09 (66) Replacement 120 LF of 8" ACP FM from PS#1002 to SW 152nd and 304th</b>																	
<b>Pre-Design</b>																	
Pre-Design - 4.09 (66)	01-Jul-16*	28-Oct-16															Pre-Design - 4.09
<b>Engineering Design</b>																	
Review ER for Engineering Design - 4.09 (66)	30-Aug-16																◆ Review ER for Engineering Design
Engineering Design - 4.09 (66)	29-Oct-16	26-Feb-17															
<b>Project Administration</b>																	
WASD Project Administration - 4.09 (66)	29-Oct-16	07-Sep-18															
<b>4.10 Opa-Locka Airport 48" PCCP Force Main Replacement</b>																	
<b>Engineering Design</b>																	
Engineering Design - Replace 48" PCCP FM @ Opa-L	17-Dec-14 A	05-May-16 A															Engineering Design - Replace 48" PCCP FM @ Opa-Locka Airport
<b>Permitting</b>																	
Permitting - Replace 48" PCCP FM @ Opa-Locka Airp	30-Jul-15 A	14-Jun-16 A															Permitting - Replace 48" PCCP FM @ Opa-Locka Airport
EPA Compliance Date for Permitting - Replace 48" PC		23-Jul-16*															◆ EPA Compliance Date for Permitting - Replac
<b>Procurement</b>																	
Procurement - Replace 48" PCCP FM @ Opa-Locka A	04-May-16 A	29-Nov-16															Procure
EPA Compliance Date for Procurement - Replace 48" I		22-Oct-16*															◆ EPA Compliance D
<b>Construction</b>																	
Construction - Replace 48" PCCP FM @ Opa-Locka A	28-Sep-16	16-Nov-17															
<b>4.10 (1) Rehab Existing 48" FM Along North Side of Biscayne Canal from NW 37th</b>																	
<b>Engineering Design</b>																	
Draft Performance Specifications - Rehab Existing 48"	14-Dec-15 A	15-Apr-16 A															Draft Performance Specifications - Rehab Existing 48" FM East of Opa Lo

WASD Consent Decree Schedule - June 2016 Update			Six Month Schedule Layout												25-Jul-16 12:54 - Page No. 34 of 47	
Activity Name	Start	Finish	2016													
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Engineering Design - Rehab Existing 48" FM East of C	14-Dec-15 A	05-May-16 A	Engineering Design - Rehab Existing 48" FM East of Opa Locka Airport													
Performance Specifications Review - Rehab Existing 4	16-Apr-16 A	22-Apr-16 A	■ Performance Specifications Review - Rehab Existing 48" FM East of Opa Locka Airport													
Final Performance Specifications Submittal - Rehab E	23-Apr-16 A	05-May-16 A	■ Final Performance Specifications Submittal - Rehab Existing 48" FM East of Opa Locka Airport													
<b>Permitting</b>			■ Permitting - Rehab Existing 48" FM East of Opa Locka Airport													
Permitting - Rehab Existing 48" FM East of Opa Locka	04-May-16 A	05-May-16 A														
<b>Procurement</b>			◆ Design Documents Sent to Procurement - Rehab Existing 48" FM East of Opa Locka Airport													
Design Documents Sent to Procurement - Rehab Exis	06-May-16 A															
Submit/Approve SBD Goals and Request to Advertise	06-May-16 A	27-May-16 A	■ Submit/Approve SBD Goals and Request to Advertise - Rehab Existing 48" FM East of Opa Locka Airport													
Procurement - Rehab Existing 48" FM East of Opa Lor	06-May-16 A	29-Nov-16	Procurement - Rehab Existing 48" FM East of Opa Locka Airport													
Advertise Bid Package - Rehab Existing 48" FM East	16-Aug-16*		◆ Advertise Bid Package - Rehab Existing 48" FM East of Opa Locka Airport													
Bid Solicitation Period - Rehab Existing 48" FM East c	16-Aug-16	15-Sep-16	■ Bid Solicitation Period - Rehab Existing 48" FM East of Opa Locka Airport													
Bids Due - Rehab Existing 48" FM East of Opa Locka	16-Sep-16		◆ Bids Due - Rehab Existing 48" FM East of Opa Locka Airport													
Bid Review Period - Rehab Existing 48" FM East of Oj	16-Sep-16	15-Oct-16	■ Bid Review Period - Rehab Existing 48" FM East of Opa Locka Airport													
Award Recommendation - Rehab Existing 48" FM Eas		15-Oct-16	◆ Award Recommendation - Rehab Existing 48" FM East of Opa Locka Airport													
Final Approvals (BCC, Mayor, Risk Mgmt.) - Rehab Ex	16-Oct-16	29-Nov-16	■ Final Approvals (BCC, Mayor, Risk Mgmt.) - Rehab Existing 48" FM East of Opa Locka Airport													
Review ER for Procurement - Rehab Existing 48" FM E	16-Oct-16		◆ Review ER for Procurement - Rehab Existing 48" FM East of Opa Locka Airport													
<b>Construction</b>			◆ Contractor Notice to Proceed - Rehab Existing 48" FM East of Opa Locka Airport													
Contractor Notice to Proceed (NTP) - Rehab Existing 4	30-Nov-16															
Construction - Rehab Existing 48" FM East of Opa Loc	30-Nov-16	28-May-17	■ Construction - Rehab Existing 48" FM East of Opa Locka Airport													
<b>Project Administration</b>																
WASD Project Administration - Rehab Existing 48" FM	14-Dec-15 A	26-Aug-17														
<b>4.10 (2) Opa-Locka Airport 48" PCCP Force Main Replacement (Sections 1 and 2)</b>																
<b>Engineering Design</b>			Engineering Design - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)													
Engineering Design - Replace 48" PCCP FM @ Opa-L	17-Dec-14 A	23-Mar-16 A														
100% Design Submittal - Replace 48" PCCP FM @ Oj	21-Nov-15 A	23-Mar-16 A	■ 100% Design Submittal - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)													
<b>Permitting</b>			Permitting - Replace 48" PCCP FM @ Opa-Locka Airport													
Permitting - Replace 48" PCCP FM @ Opa-Locka Airp	30-Jul-15 A	14-Jun-16 A														
FAA Permit - Replace 48" PCCP FM @ Opa-Locka Air	30-Jul-15 A	14-Jun-16 A	■ FAA Permit - Replace 48" PCCP FM @ Opa-Locka Airport													
RER (DERM) / FDEP Permit - Replace 48" PCCP FM	31-Mar-16 A	12-Apr-16 A	■ RER (DERM) / FDEP Permit - Replace 48" PCCP FM @ Opa-Locka Airport													
<b>Procurement</b>			◆ Design Documents Sent to Procurement - Replace 48" PCCP FM @ Opa-Locka Airport													
Design Documents Sent to Procurement - Replace 48'	04-May-16 A															
Submit/Approve SBD Goals and Request to Advertise	04-May-16 A	27-May-16 A	■ Submit/Approve SBD Goals and Request to Advertise - Replace 48" PCCP FM @ Opa-Locka Airport													
Procurement - Replace 48" PCCP FM @ Opa-Locka A	04-May-16 A	27-Sep-16	Procurement - Replace 48" PCCP FM @ Opa-Locka Airport													
Advertise Bid Package - Replace 48" PCCP FM @ Oj	16-Jun-16 A		◆ Advertise Bid Package - Replace 48" PCCP FM @ Opa-Locka Airport													
Bid Solicitation Period - Replace 48" PCCP FM @ Opa	16-Jun-16 A	29-Jul-16	■ Bid Solicitation Period - Replace 48" PCCP FM @ Opa-Locka Airport													
Bids Due - Replace 48" PCCP FM @ Opa-Locka Airpc	30-Jul-16		◆ Bids Due - Replace 48" PCCP FM @ Opa-Locka Airport													
Bid Review Period - Replace 48" PCCP FM @ Opa-Lo	30-Jul-16	28-Aug-16	■ Bid Review Period - Replace 48" PCCP FM @ Opa-Locka Airport													
Award Recommendation - Replace 48" PCCP FM @ C		28-Aug-16	◆ Award Recommendation - Replace 48" PCCP FM @ Opa-Locka Airport													
Final Approvals (BCC, Mayor, Risk Mgmt.) - Replace 4	29-Aug-16	27-Sep-16	■ Final Approvals (BCC, Mayor, Risk Mgmt.) - Replace 48" PCCP FM @ Opa-Locka Airport													
Review ER for Procurement - Replace 48" PCCP FM (	29-Aug-16		◆ Review ER for Procurement - Replace 48" PCCP FM @ Opa-Locka Airport													
<b>Construction</b>			◆ Contractor Notice to Proceed - Replace 48" PCCP FM @ Opa-Locka Airport													
Contractor Notice to Proceed (NTP) - Replace 48" PC	28-Sep-16															
Construction - Replace 48" PCCP FM @ Opa-Locka A	28-Sep-16	16-Nov-17	■ Construction - Replace 48" PCCP FM @ Opa-Locka Airport													
<b>Project Administration</b>																
WASD Project Administration - Replace 48" PCCP FM	17-Dec-14 A	14-Feb-18														
<b>4.10 (3) Replace 16" FM Along NW 159th St. from NW 57th St. to NW 54th St.</b>																
<b>Pre-Design</b>																





Activity Name	Start	Finish	2016																
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
60% Design Submittal - PS#0415	12-Jan-16 A	26-Feb-16 A	█		60% Design Submittal - PS#0415														
60% Design Review - PS#0415	27-Feb-16 A	11-Mar-16 A	█			60% Design Review - PS#0415													
100% Design Submittal - PS#0415	12-Mar-16 A	30-May-16 A	█					100% Design Submittal - PS#0415											
EPA Compliance Date for Engineering Design - PS#04		24-Apr-16 A	◆ EPA Compliance Date for Engineering Design - PS#0415																
<b>Permitting</b>																			
Permitting - PS#0415	31-May-16 A	14-Oct-16	▬ Permitting - PS#0415																
DERM Permit Submittal	31-May-16 A		◆ DERM Permit Submittal																
Derm Permit Submittal Review	01-Jun-16 A	10-Jul-16	█		Derm Permit Submittal Review														
A/E Prepares/Submits Responses to DERM Permit St	11-Jul-16	25-Jul-16	█			A/E Prepares/Submits Responses to DERM													
DERM Permit Approval	26-Jul-16	13-Aug-16	█				DERM Permit Approval												
Municipality Bldg. Dept. Submittal	14-Aug-16*		◆ Municipality Bldg. Dept. Submittal																
Municipality Bldg. Dept. Submittal Review	14-Aug-16	31-Aug-16	█			Municipality Bldg. Dept. Submittal													
A/E Prepares/Submits Responses to Municipality Bldg	01-Sep-16	08-Sep-16	█		A/E Prepares/Submits Respons														
Municipality Bldg. Dept. Submittal Approval	09-Sep-16	14-Oct-16	█				Municipality Bldg. De												
EPA Compliance Date for Permitting - PS#0415		21-Oct-16*	◆ EPA Compliance D																
<b>Procurement</b>																			
Review ER for Procurement - PS#0415	16-Aug-16		◆ Review ER for Procurement - PS#0415																
Procurement - PS#0415	15-Oct-16	11-Jul-17																	
Design Documents Sent to Procurement - PS#0415	15-Oct-16		◆ Design Documents S																
Submit/Approve SBD Goals and Request to Advertise	15-Oct-16	13-Dec-16	█		Sub														
Advertise Bid Package - PS#0415	14-Dec-16		◆ Adv																
Bid Solicitation Period - PS#0415	14-Dec-16	11-Feb-17	█																
<b>Project Administration</b>																			
WASD Project Administration - PS#0415	09-Feb-15 A	12-Apr-19																	
<b>5.06 Replacement of Switchgear PS#0416</b>																			
<b>Engineering Design</b>																			
Engineering Design - PS#0416	06-Feb-15 A	24-May-16 A	▬ Engineering Design - PS#0416																
60% Design Submittal - PS#0416	25-Dec-15 A	08-Feb-16 A	█		60% Design Submittal - PS#0416														
60% Design Review - PS#0416	09-Feb-16 A	29-Feb-16 A	█			60% Design Review - PS#0416													
100% Design Submittal - PS#0416	16-Feb-16 A	24-May-16 A	█					100% Design Submittal - PS#0416											
<b>Permitting</b>																			
Permitting - PS#0416	25-May-16 A	06-Sep-16	▬ Permitting - PS#0416																
DERM Permit Submittal	25-May-16 A		◆ DERM Permit Submittal																
Derm Permit Submittal Review	25-May-16 A	16-Jun-16 A	█		Derm Permit Submittal Review														
A/E Prepares/Submits Responses to DERM Permit St	17-Jun-16 A	11-Jul-16	█			A/E Prepares/Submits Responses to DERM Per													
DERM Permit Approval	12-Jul-16	02-Aug-16	█				DERM Permit Approval												
Bldg. Dept. Permit Submittal	03-Aug-16*		◆ Bldg. Dept. Permit Submittal																
Bldg. Dept. Permit Submittal Review	03-Aug-16	24-Aug-16	█			Bldg. Dept. Permit Submittal Review													
A/E Prepares/Submits Responses to Bldg. Dept. Perm	25-Aug-16	31-Aug-16	█		A/E Prepares/Submits Responses														
Bldg. Dept. Permit Approval	01-Sep-16	06-Sep-16	█				Bldg. Dept. Permit Approval												
EPA Compliance Date for Permitting - PS#0416		20-Sep-16*	◆ EPA Compliance Date for P																
<b>Procurement</b>																			
Review ER for Procurement - PS#0416	09-Jul-16		◆ Review ER for Procurement - PS#0416																
Procurement - PS#0416	07-Sep-16	19-Jan-17																	
Design Documents Sent to Procurement - PS#0416	07-Sep-16		◆ Design Documents Sent to Proc																
Submit/Approve SBD Goals and Request to Advertise	07-Sep-16	06-Oct-16	█		Submit/Approve SBD C														
Advertise Bid Package - PS#0416	07-Oct-16		◆ Advertise Bid Package																









WASD Consent Decree Schedule - June 2016 Update			Six Month Schedule Layout					25-Jul-16 12:54 - Page No. 42 of 47						
Activity Name	Start	Finish	2016											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>5.16 (2) Pump Station No. 0437 Upgrade</b>														
<b>Procurement</b>														
Procurement - PS#0437 Upgrade	24-Nov-15 A	17-Apr-16 A	Procurement - PS#0437 Upgrade											
Submit/Approve SBD Goals and Rquest to Advertise -	24-Nov-15 A	08-Jan-16 A	Submit/Approve SBD Goals and Rquest to Advertise - PS#0437 Upgrade											
Bid Solicitation Period - PS#0437 Upgrade	09-Dec-15 A	08-Jan-16 A	Bid Solicitation Period - PS#0437 Upgrade											
Bids Due - PS#0437 Upgrade	09-Jan-16 A		Bids Due - PS#0437 Upgrade											
Bid Review Period - PS#0437 Upgrade	09-Jan-16 A	20-Jan-16 A	Bid Review Period - PS#0437 Upgrade											
Award Recommendation - PS#0437 Upgrade		20-Jan-16 A	Award Recommendation - PS#0437 Upgrade											
Final Approvals - PS#0437 Upgrade	21-Jan-16 A	17-Feb-16 A	Final Approvals - PS#0437 Upgrade											
P.O. Issued - PS#0437 Upgrade		17-Feb-16 A	P.O. Issued - PS#0437 Upgrade											
<b>Construction</b>														
Contractor Notice to Proceed (NTP) - PS#0437 Upgrac	18-Apr-16 A		Contractor Notice to Proceed (NTP) - PS#0437 Upgrade											
Construction - PS#0437 Upgrade	02-May-16 A	15-Nov-16	Construction - PS#0437 Upgrade											
Substantial Completion (CD Compliance Date 12/31/16)		15-Nov-16*	Substantial Completion (CD Compliance Date 12/31/16)											
Project Closeout - PS#0437 Upgrade	16-Nov-16	13-Feb-17	Project Closeout - PS#0437 Upgrade											
<b>Project Administration</b>														
WASD Project Administration - PS#0437 Upgrade	01-May-15 A	13-Feb-17	WASD Project Administration - PS#0437 Upgrade											
<b>5.16 (3) Pump Station 0466 Compliance Project</b>														
<b>Procurement</b>														
Procurement - PS#0466 Compliance Project	26-Feb-16 A	20-Jun-16 A	Procurement - PS#0466 Compliance Project											
Design Documents Sent to Procurement - PS#0466 C	26-Feb-16 A		Design Documents Sent to Procurement - PS#0466 Compliance Project											
Submit/Approve SBD Goals and Request to Advertise	26-Feb-16 A	14-Mar-16 A	Submit/Approve SBD Goals and Request to Advertise - PS#0466 Compliance Project											
Advertise Bid Package - PS#0466 Compliance Project	15-Mar-16 A		Advertise Bid Package - PS#0466 Compliance Project											
Bid Solicitation Period - PS#0466 Compliance Project	15-Mar-16 A	15-Apr-16 A	Bid Solicitation Period - PS#0466 Compliance Project											
Bids Due - PS#0466 Compliance Project	15-Apr-16 A		Bids Due - PS#0466 Compliance Project											
Bid Review Period - PS#0466 Compliance Project	15-Apr-16 A	22-Apr-16 A	Bid Review Period - PS#0466 Compliance Project											
Award Recommendation - PS#0466 Compliance Projec		22-Apr-16 A	Award Recommendation - PS#0466 Compliance Project											
Final Approvals - PS#0466 Compliance Project	23-Apr-16 A	20-Jun-16 A	Final Approvals - PS#0466 Compliance Project											
Review ER for Procurement - PS#0466 Compliance Pr	31-May-16 A		Review ER for Procurement - PS#0466 Compliance Project											
P.O. Issued - PS#0466 Compliance Project	20-Jun-16 A		P.O. Issued - PS#0466 Compliance Project											
<b>Construction</b>														
Construction - PS#0466 Compliance Project	30-Jun-16	26-Dec-16	Construction - PS#0466 Compliance Project											
Contractor Notice to Proceed (NTP) - PS#0466 Compli	30-Jun-16		Contractor Notice to Proceed (NTP) - PS#0466 Compliance Project											
Substantial Completion (CD Compliance Date 12/31/16)		26-Dec-16*	Substantial Completion (CD Compliance Date 12/31/16)											
Project Closeout - PS#0466 Compliance Project	27-Dec-16	26-Mar-17	Project Closeout - PS#0466 Compliance Project											
<b>Project Administration</b>														
WASD Project Administration - PS#0466 Compliance I	27-Jul-15 A	26-Mar-17	WASD Project Administration - PS#0466 Compliance Project											
<b>5.16 (4) Pump Station 0680 Upgrade</b>														
<b>Procurement</b>														
Procurement - PS#0680 Upgrade	24-Nov-15 A	17-Feb-16 A	Procurement - PS#0680 Upgrade											
Bid Solicitation Period - PS#0680 Upgrade	09-Dec-15 A	08-Jan-16 A	Bid Solicitation Period - PS#0680 Upgrade											
Bids Due - PS#0680 Upgrade	09-Jan-16 A		Bids Due - PS#0680 Upgrade											
Bid Review Period - PS#0680 Upgrade	09-Jan-16 A	20-Jan-16 A	Bid Review Period - PS#0680 Upgrade											
Award Recommendation - PS#0680 Upgrade		20-Jan-16 A	Award Recommendation - PS#0680 Upgrade											
Final Approvals - PS#0680 Upgrade	21-Jan-16 A	17-Feb-16 A	Final Approvals - PS#0680 Upgrade											
P.O. Issued - PS#0680 Upgrade		17-Feb-16 A	P.O. Issued - PS#0680 Upgrade											
<b>Construction</b>														









