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VIA ELECTRONIC CORRESPONDENCE

July 30, 2021

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File No: 8.DC.09.33

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Attn: Compliance/Enforcement Section
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**RE: Consent Decree (Case: No. 1:12-cv-24400-FAM),
Reference DOJ Case No. 90-5-1-1-4022/1,
Section IX – Reporting Requirements, Paragraph 33 – Semi-Annual Reports – 2021
Semi-Annual Report No. 1**

Dear Sir or Madam:

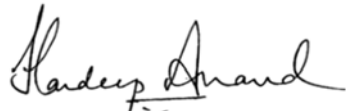
In accordance with the provisions of Paragraph 33 of the above referenced Consent Decree, on behalf of Miami-Dade County, the Water and Sewer Department (WASD) submits to both the United States Environmental Protection Agency (EPA) and the State of Florida Department of Environmental Protection (FDEP) the 2021 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, 2021 through June 30, 2021. The report also includes the anticipated work to be completed over the next two calendar quarters through December 31, 2021.

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) 552-8884.

Sincerely,



Hardeep Anand, P.E., Deputy Director
Capital Improvement & Regulatory Compliance
Miami-Dade Water and Sewer Department

Attachment: 2021 Semi-Annual Report No. 1

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2021 Semi-Annual Report No. 21 (Fourteenth Semi-Annual Report)

January 1, 2021 through June 30, 2021

Prepared for

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

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

Prepared by

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



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Contents

1.0 Executive Summary	1
2.0 Introduction	9
2.1 Purpose	9
2.2 Requirements	9
2.3 Reporting Schedule	9
2.4 Reporting Structure	10
3.0 Work Progress	11
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	11
3.2 New CMOM Programs – Paragraph 19(a) through (h), (j)	11
3.2.1 Specific Capital Improvement Projects ("CIPs") Program – Paragraph 19(i)	11
3.3 Supplemental Environmental Project Plan	11
4.1 State's Ocean Outfall Legislation	12

Tables

1-1 Completed CD Projects, Activities, and Milestones	3
1-2 Upcoming CD Projects, Activities, and Milestones, and Deliverables in the Next Two Calendar Quarters	5
1-3 Issues Log	6

Appendices

A Work Progress Tables	
B Project Schedule Gantt Charts	
C Financial Analysis Program Report	
D SEP Connection Database	

Acronyms and Abbreviations

AASIS	Active As-built Supplemental Information Systems
AC	Asbestos Cement
BODR	Basis of Design Report
CCTV	Closed-Circuit Television
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
COVID-19	Novel Coronavirus Disease 2019
DOJ	Department of Justice
EFT	Electronic Funds Transfer
EPA	Environmental Protection Agency
ET	Elapsed Time
FDEP	Florida Department of Environmental Protection
FM	Force Main
FMOPMARP	Force Main Operations, Preventative Maintenance and Assessment/Rehabilitation Program
FM R/R P	Force Main Rehabilitation/Replacement Program
FOG	Fats, Oils and Grease
FSE	Food Service Establishments
FYTD	Fiscal Year to Date
GDO	Grease Discharge Operations

Acronyms and Abbreviations (continued)

GIS	Geographic Information System
GPD	Gallons per Day
GPDIM	Gallons per Day per Inch-Diameter Mile
GPM	Gallons per Minute
GSS	Gravity Sewer System
I/I	Inflow/Infiltration
IMS	Information Management System
IT	Information Technology
KPI	Key Performance Indicators
LF	Linear Foot
LWT	Liquid Waste Transporters
MGD	Million Gallons per Day
N/A	Not Applicable
NAPOT	Nominal Average Pump Operating Time
NDWWTP	North District Wastewater Treatment Plant
NPDES	National Pollutant Discharge Elimination System
OOL	Ocean Outfall Legislation
PCCP	Prestressed Concrete Cylinder Pipe
PDR	Public Document Repository
PS	Pump Station
PSOPMP	Pump Station Operations and Preventative Maintenance Program
R & R	Renewal and Replacement

Acronyms and Abbreviations (continued)

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 Wastewater Treatment Plant
SEP	Supplemental Environmental Project
SORP	Sewer Overflow Response Plan
SPiDER	Spherical Imagery Digitally Enhanced Rendering
SSAMP	Sewer System Asset Management Program
SSES	Sanitary Sewer Evaluation Survey
SSO	Sanitary Sewer Overflow
VFD	Variable Frequency Drive
VSC	Volume Sewer Customer
WASD	Miami-Dade Water and Sewer Department
WCTL	Wastewater Collection and Transmission Line
WCTS	Wastewater Collection and Transmission System
WWTP	Wastewater Treatment Plant

1.0 Executive Summary

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

Per the approved CD, 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. In accordance with the CD, this Report includes a description of the projects and activities completed and milestones achieved during the previous two (2) calendar quarters (January 1, 2021 through June 30, 2021), and also provides projections for significant projects and activities anticipated to be completed in the next two (2) calendar quarters (July 1, 2021 through December 31, 2021).

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. This is in conformity with the March 18, 2014, County approved 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.

All CD requirements were met for the previous two (2) calendar quarters, with the exception of meeting the final deadline for two (2) Appendix D Capital Improvement Projects (CIP): 1) CD CIP 1.11 – General Electrical at South District Wastewater Treatment Plant (SDWWTP) and 2) CD CIP 2.1 – Electrical Improvement at Central District Wastewater Treatment Plant (CDWWTP). In addition and in accordance with Section IX, Paragraph 52 of the CD, the County provided the following notices:

- On January 15, 2021, the County reported additional delays during the procurement phase of CD 1.11(1.2) Generator Repairs. The additional delays occurred due to the County rescinded their Recommendation for Award on December 24, 2020, as a result of post-bid conditions being required by the second lowest bidder that were inconsistent with the terms and conditions of the bid solicitation. On March 17, 2021, the County provided a Failure to Meet the Compliance Date Notification for CD CIP 1.11 to EPA and FDEP. The compliance date for this project was March 26, 2021, currently, the County anticipates being able to reach construction completion in 2022.
- On February 10, 2021, the County notified EPA and FDEP of a Potential Delay for CD CIP 2.11 – Effluent Pump Station at CDWWTP due to delays occurring in the execution of this

project during the construction phase related to the first phase of commissioning of the pump motors. The delays were successfully mitigated and the project achieved Construction Completion on June 17, 2021, ahead of the Compliance Date of June 21, 2021.

- On June 14, 2021, the County provided a Failure to Meet the Compliance Date Notification for CD CIP 2.1 Electrical Improvements at CDWWTP to EPA and FDEP. The compliance date for this project was June 14, 2021, currently, the County anticipates being able to reach construction completion in the fall of 2021.

The County continues to be fully engaged with the successful implementation and compliance of the CD. First, with the continued development and implementation of the nine new CMOM Programs (CD Section VI, Paragraph 19), all of which have been approved. Second, with the execution of the eighty-one (81) capital improvement projects included in Appendix D which have an approximate total cost of \$1.92 billion, and the Supplemental Environmental Project (SEP) included in Appendix E. As of this reporting period, forty-seven (47) projects with a total cost of \$520 million have reached substantial completion and thirty-four (34) projects with an approximate total cost of \$1.41 billion are currently in the planning, procurement, and construction phases.

The projects, activities and milestones achieved, and the deliverables submitted to EPA and FDEP are listed in Table 1-1 (page 3). The upcoming projects, activities, milestones, and deliverables for the next two (2) calendar quarters are listed in Table 1-2 (page 5). Additional program and project information is included in the Work Progress Tables and Gantt charts in Appendix A and Appendix B, respectively. Any issues, clarifications, decisions, and resolutions are included in Table 1-3 (page 6).

Table 1-1 Completed CD Projects, Activities, Milestones, and Deliverables				
CD Projects, Activities, and Milestones	CD Reference	CD Deadline	Completion or Submittal Date	CD Compliant (Yes/No)
Make available a copy of each specified Deliverable in the Public Document Repository (PDR) no later than one (1) 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 Potential Delay Notification Letter for CD CIP 1.11 – General Electrical	Section XI, para. 52 & Section XVII, para. 77	1/15/2021	1/15/2021	Yes
Post Potential Delay Notification Letter for CD CIP 1.11 – General Electrical in PDR	Section V, para. 9	1 business day after submittal	1/15/2021	Yes
Post Delay Notification for Third Annual FOG Control Program Review Report in PDR	Section V, para. 9	1 business day after submittal	1/15/2021	Yes
Submit 2020 Semi-Annual Report No. 2	Section IX, para. 33	1/31/2021	1/26/2021	Yes
Post 2020 Semi-Annual Report No. 2 in PDR	Section IX, para. 36	1 business day after submittal	1/26/2021	Yes
Submit 2020 Quarterly Report No. 4	Section IX, para. 32	1/31/2021	1/27/2021	Yes
Post 2020 Quarterly Report No. 4 in PDR	Section IX, para. 36	1 business day after submittal	1/27/2021	Yes
Submit 2020 Annual Report	Section IX, para. 34	3/1/2021	3/1/2021	Yes
Post 2020 Annual Report in PDR	Section IX, para. 36	1 business day after submittal	3/1/2021	Yes

Table 1-1 Completed CD Projects, Activities, Milestones, and Deliverables				
CD Projects, Activities, and Milestones	CD Reference	CD Deadline	Completion or Submittal Date	CD Compliant (Yes/No)
Submit Failure to Meet Compliance Date and Project Update for CD CIP 1.11 General Electrical	Section XI, para. 52 & Section XVII, para. 77	3/26/2021	3/17/2021	Yes
Post Failure to Meet Compliance Date and Project Update for CD CIP 1.11 General Electrical in PDR	Section V, para. 9	1 business day after submittal	3/17/2021	Yes
Submit Revised CMOM Consolidated Schedule of Implementation of Activities	Section VI, para. 19	3/19/2021	3/19/2021	Yes
Post Revised CMOM Consolidated Schedule of Implementation of Activities in PDR	Section V, para. 9	1 business day after submittal	3/19/2021	Yes
Submit 2021 Quarterly Report No. 1	Section IX, para. 32	4/30/2021	4/30/2021	Yes
Post 2021 Quarterly Report No. 1 in PDR	Section IX, para. 36	1 business day after submittal	4/30/2021	Yes
Submit Payment of FDEP demand for Stipulated Penalties (2020) Letter	Section X, para. 42(a) and Order Modifying Section X	6/12/2021	6/8/2021	Yes
Post Payment of FDEP demand for Stipulated Penalties (2019) Letter in PDR	Section V, para. 9	1 business day after submittal	6/9/2021	Yes
Submit Failure to Meet Compliance Date and Project Update for CD CIP 2.1 Electrical Improvements	Section XI, para. 52 & Section XVII, para. 77	6/14/2021	6/14/2021	Yes
Post Failure to Meet Compliance Date and Project Update for CD CIP 2.1 Electrical Improvements in PDR	Section V, para. 9	1 business day after submittal	6/14/2021	Yes
Submit Fourth Annual FOG Control Program Review Report	Section VI, para. 19(a)	6/30/2021	6/30/2021	Yes
Post Fourth Annual FOG Control Program Review Report in PDR	Section IX, para. 36	1 business day after submittal	6/30/2021	Yes

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

CD Projects, Activities, and Milestones	CD Reference	CD Deadline	Completion or Submittal Date	CD Compliant (Yes/No)
Submit Payment for Funding to FDEP to monitor compliance with terms of FDEP CO OGC No. 03-1376(a)	Section XVI, para. 76	7/1/2021	6/30/2021	Yes
Post Payment for Funding to FDEP to monitor compliance with terms of FDEP CO OGC No. 03-1376(a)in PDR	Section IX, para. 36	1 business day after submittal	6/30/2021	Yes

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

CD Projects, Activities, and Milestones	CD Reference	CD Deadline	Anticipated Completion or Submittal Date
Submit 2021 Quarterly Report No. 2	Section IX, para. 32	7/30/2021	7/30/2021
Post 2021 Quarterly Report No. 2 in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
Submit 2021 Semi-Annual Report No. 1	Section IX, para. 33	7/30/2021	7/30/2021
Post 2021 Semi-Annual Report No. 1 in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
Submit 2021 Quarterly Report No. 3	Section IX, para. 32	10/31/2021	10/31/2021
Post 2021 Quarterly Report No. 3 in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
CD CIP 2.1 Electrical Improvements at CDWWTP	Section VI, para. 19(i)	6/14/2021	11/11/2021
CD CIP 2.19 Co-Gen Improvements at CDWWTP	Section VI, para. 19(i)	5/21/2020	Fall 2021
CD CIP 2.22 Pump Station No.2 at CDWWTP	Section VI, para. 19(i)	4/25/2019	10/01/2021
CD CIP 3.6 Disinfection at NDWWTP	Section VI, para. 19(i)	9/9/2020	10/08/2021

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

Table 1-3 Issues Log			
Item	Date	Description	Resolution/Clarification/Decision
1	7/20/2017	At the July 20, 2017 EPA/FDEP/WASD CD Program Update Meeting, WASD proposed a scope modification for CD CIP 5.9 Replacement of Plumbing and Electrical Equipment at PS 0301.	The scope modification request for CD CIP 5.9, to include the construction of a new Submersible PS, exceeds the CD description and as such will require a revision to the CD Appendix D CD CIP 5.9 schedule. After the presentation, EPA/FDEP requested a formal request for the proposed change. On July 28, 2017, the County sent EPA/FDEP an official scope modification request for CD CIP 5.9 Replacement of Plumbing and Electrical Equipment. On October 16, 2019, the County re-distributed the scope modification for CD CIP 5.9 letter as requested by EPA. This item is pending final decision.
2	2/13/2018	<p>On February 13, 2018, the County advised EPA, FDEP and Department of Justice (DOJ) that the Public Document Repository (PDR) site would be migrated to a Microsoft cloud-based system.</p> <p>WASD communicated to EPA and FDEP that their Public Information Office (PIO) will continue to provide access to deliverables digitally. Upon request for hard copies, the PIO will provide in accordance with public records law.</p>	<p>On February 14, 2018, EPA, DOJ and FDEP did not object to the proposed migration. Once effective, this migration of PDR site will be included in the next Status Report to the Court.</p> <p>On August 1, 2019, the County electronically notified the EPA/FEP that the PDR was unavailable to the public for an estimated 4 days due to a server failure. The new cloud-based PDR system was put into production on July 31, 2019 and by August 1, 2019 most of the library was restored. On October 4, 2019, the County submitted a letter detailing the timeline of the breach in PDR compliance.</p>
3	4/19/2018	At the April 2018 CD Program Update Meeting, WASD mentioned that there will be an amendment to the County Ordinance regarding the time a business must connect to a public lateral. In line with federal laws, it will be modified to reflect one (1) year. There is reference in Appendix E Supplemental Environmental Project Plan of the CD, however, indicating a different timeframe, i.e. “Pursuant to existing regulations, businesses will have ninety (90) days to abandon their septic systems and connect to the public laterals.”	<p>EPA stated there may be a need to change that language in the CD and that the matter would be discussed with the DOJ. On December 19, 2019, the County provided SEP CD Language to EPA that is under consideration by DOJ. This item is pending final decision.</p> <p>At the December 2020 CD Program Update Meeting, EPA requested to resend information of the SEP language changed by the Ordinance. The information was resent on December 17, 2020.</p>

Item	Date	Description	Resolution/Clarification/Decision
4	4/19/2018	At the January 24, 2017 monthly meeting, WASD mentioned that the Ocean Outfall Legislation Program is in the process of developing the Conceptual Memorandum. After the development of that Report the change of scope for CD CIP 2.14 CDWWTP Digesters Plant 1 will be submitted to EPA/FDEPA. At the April 2018 CD Program Update Meeting, WASD reported that the complete rehabilitation of Plant 2 Clusters 1, 2, and 3 under CD CIP 2.15 will provide full digestion treatment capacity required for CDWWTP and no improvement for CD CIP 2.14 is anticipated for both the CD and Ocean Outfall Legislation Program (OOL). EPA/FDEP requested that WASD submits a Request for Material Change for CD CIP 2.14.	WASD submitted a Request for Material Change for CD CIP 2.14 to EPA/FDEP on May 21, 2018. The County requested that CD CIP 2.14 be cancelled and deleted from Appendix D-2 of the CD. FDEP has requested to complete testing of Plant 2 Cluster 1 prior to making a decision. It is currently anticipated to complete startup and testing of Cluster 1 in the Fall of 2021. This item is pending final decision.
5	12/19/2019	EPA/FDEP to prioritize the review of the CMOM Program Implementation Schedule.	At the December 19, 2019 CD Program Update Meeting, WASD requested an update on the status of the approval for CMOM Program Implementation Schedule submitted on August 6, 2018. Brad Ammons (EPA) committed to prioritize the review of the CMOM Program Implementation Schedule. A revised CMOM Program Implementation Schedule was submitted on May 19, 2021. See Item No. 10.
6	2/20/2020	WASD to resend response to FDEP's comments on the BODR for Thickening and Dewatering Project (CD CIP 1.6, 1.8, 2.12 2.13, 2.16 and 2.18(2))	In the February 2020, WASD required an update on the status of the FDEP's review and approval of the BODR for Thickening and Dewatering Project (CD CIP 1.6, 1.8, 2.12 2.13, 2.16 and 2.18(2)). FDEP requested that the response to FDEP's comments be resent to facilitate their review. On February 20, 2020, WASD resent the October 2019 communication to FDEP. On March 5, 2020, FDEP issued a conditional approval. The solid loading for both facilities have been revised and submitted to FDEP on May 21, 2021. Approval for CD CIP 1.6 and 1.8 was received from FDEP on May 24, 2021. Approval for CD CIP 2.12, 2.13, and 2.16 is still pending.
7	2/20/2020	EPA/FDEP to consider WASD's request to discontinue the Semi-Annual Reporting as per CD Sect. IX Paragraph 33	In the February 2020 CD Program Update Meeting, WASD requested EPA and FDEP consider discontinuing the Semi-Annual Reporting as per CD Section IX, Paragraph 33: "Six year from the Effective Date of the CD and each subsequent year until termination, the United States, FDEP and Miami-Dade agree to consider whether to discontinue the Semi-Annual

Table 1-3 Issues Log

Item	Date	Description	Resolution/Clarification/Decision
			Reports.” At the April 2020 CD Program Update Meeting, FDEP stated that they had no objection in discontinuing the Semi-Annual Reports. At the June 2020 CD Program Update Meeting, the County advised EPA/FDEP that this request was placed on hold for the time being.
8	4/16/2020	RER-DERM to provide EPA/FDEP with the Project Certifications for CD CIP 5.01 – PS 0418 and CD CIP 5.05 – PS 0415	At the April 2020 CD Program Update Meeting, FDEP requested that RER-DERM provide EPA/FDEP with the Project Certifications for CD CIP 5.01 – PS 0418 and CD 5.05 – PS 0415. On April 16, 2020, RER-DERM provided the requested Certifications.
9	4/16/2020	Discussion on Force Majeure impacts of COVID-19. The County to collect supporting documentation related to any COVID-19 Force Majeure Claim.	At the April 2020 CD Program Update Meeting, the County provided a summary of the impacts of COVID-19 on Consent Decree CIPs in construction, permitting and procurement phases. FDEP and EPA reiterated that supporting documentation will be needed to evaluate any COVID-19 Force Majeure Claim for delays. The County is preparing an update to include projects that have been affected through June 30, 2021.
10	6/18/2020	WASD to provide an updated CMOM Program Implementation Schedule.	At the June 2020 CD Program Update Meeting, FDEP suggested that the County update the CMOM Program Implementation Schedule to include language that establishes that the updated schedule is valid if approval is given by target date and language for approval delay procedure. As of December 2020 WASD is finalizing the last details of the schedule. The schedule will be comprehensive and will include activities that have been completed to date. The County provided a revised CMOM Implementation scheduled on March 19, 2021. This items is pending review by EPA and FDEP
11	5/27/2021	Outstanding Force Majeure and Potential Delay Stipulated Penalties	On May 27, 2021, the County, EPA, DOJ, and FDEP met to discuss a list of projects that required additional information in order to make a determination as to whether Stipulated Penalties would be assessed, reduced or not assessed at all. The County is currently preparing a letter with the information requested for each project.

2.0 Introduction

2.1 Purpose

On June 6, 2013, the CD was lodged with the United States District Court for the Southern District of Florida (“Court”). The Effective Date of the CD is December 6, 2013 (six months after the date of lodging). 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. The County 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 the 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 submitted on July 30, 2014, according to the above requirement. Subsequent Semi-Annual Reports are being submitted pursuant to Paragraph 33 of the CD. Six (6) years from

the Effective Date of the Consent Decree and each subsequent year until termination, the United States, FDEP, and the County agree to consider whether to discontinue the Semi-Annual Reports. If the United States, FDEP and the County 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.

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 (2) Calendar Quarters and those anticipated to be completed in the next two (2) Calendar Quarters. In addition to these descriptions, a schedule containing each of the projects in Gantt chart format is provided in Appendix B.

3.0 Work Progress

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

A summary of the continuing CMOM programs and their status for the previous two (2) Calendar Quarters and the next two (2) 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 (2) Calendar Quarters and the next two (2) 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 identified certain rehabilitation projects that are intended to address conditions currently causing SSOs or contributing to National Pollutant Discharge Elimination System (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 (2) Calendar Quarters and the next two (2) Calendar Quarters can be found in Work Progress Tables A-3.1, A-3.2 and A-3.3 for the WWTPs, Tables A-4.1 and A-4.2 for the Wastewater Collection and Transmission Lines (WCTL) and Table A-5.1 for the Sewer Pump Station Systems in Appendix A.

3.3 Supplemental Environmental Project Plan

This project was performed pursuant to Section VIII and Appendix E of the CD. The construction of the Supplemental Environmental Project (SEP) reached completion on December 26, 2018, ahead of the CD Compliance deadline of November 18, 2019. The County installed at least seven thousand six hundred sixty (7,660) linear feet of new gravity sewer mains within an industrial area which had no access to sanitary sewers and relied on septic systems.

The SEP Completion Report was submitted on the CD Compliance deadline of December 18, 2019. The EPA and FDEP review and approval of the SEP Completion Report is pending. Some of the properties required to connect were able to establish sewer connections. After being impacted by COVID-19, RER-DERM has reinitiated enforcement actions for SEP property owners with overdue Notice of Required Connection (NORC). The list of properties that have received NORC letters and those that have connected to date is presented in the connection database spreadsheet included as Appendix D.

4.0 Additional Information

According to Paragraph 33(d), this report shall include "any additional information the County 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

In 2008, the Florida Legislature enacted a law requiring all wastewater facilities in southeast Florida utilizing ocean outfalls for disposal of treated wastewater to reduce nutrient load discharges, cease the normal use of outfalls, and expand reuse systems, all by the end of 2025. The primary approach to reduce outfall use is to install new injection wells at North and Central District WWTPs.

The EPA, FDEP, and the County acknowledged that the implementation of the Ocean Outfall Legislation (OOL) may impact the scope of scheduling certain CIPs identified in the Consent Decree Appendix D. Pursuant to Paragraph 19(i), any modifications agreed upon in writing by the EPA, FDEP, and the County to this list of projects or schedules set forth in Appendix D shall constitute a non-material change to the Consent Decree as set forth in Section XX (Modification). The following progress was completed during the reporting period.

- The CDWWTP construction is progressing on drilling the first seven (of nine) new Class I municipal injection wells. Two wells are completed and a monitoring well is currently being installed. Drilling on four more wells is underway. The Underground Injection Control (UIC) permit for the final two wells is progressing. The design of the municipal well pump station is about 75 percent complete. Two electrical distribution buildings in the OOL program are at the 75 percent design completion. The industrial wells have been operating at full capacity for about 9 months, reducing about 34 to 36 mgd from the outfall discharge each month.
- The NDWWTP early work projects will include installing injection wells on the upland portion of the site while the wetland and stormwater management permits are being obtained. Five new municipal wells at NDWWTP are designed and permitted (UIC). The drilling contract was approved at the end of May and site preparation is underway with actual drilling beginning in September 2021. The substantial permitting required for the site development is ongoing. A draft stormwater master plan that incorporates both the old and new NDWWTP facilities is completed and it will support the site permitting and design. The FDEP wetland permitting and mitigation credit purchases will be completed soon (fall 2021). Section 404 permit is under review by the U.S. Fish and Wildlife Service and tribes. Local permitting may take longer as it requires commission approval. The high-level disinfection and injection well pump station designs are at 30 percent complete. The designs for the site preparation and electrical buildings are about 50 and 30 percent complete, respectively. The existing four injection wells are continuing to function at near maximum capacity and substantial outfall flow diversion is being achieved (50 to 70 percent reduction of daily flow).

Appendix A Work Progress Tables

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

Paragraph	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar (2) 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.	1. Continued with the monitoring and tracking of the monthly Elapsed Time (ET) submittals by each Volume Sewer Customer Utility.	1. Continue monitoring and tracking of the monthly Elapsed Time (ET) submittals by each Volume Sewer Customer Utility.
			2. Placed under Initial Moratorium (IM) Pump Station basins that exceeded the maximum 10 hours pursuant to the Nominal Average Pump Operating Time (NAPOT).	2. Continue placing under Initial Moratorium (IM) Pump Station basins that exceed the maximum 10 hours pursuant to the Nominal Average Pump Operating Time (NAPOT).
			3. Placed under Incomplete Moratorium (IN) Pump Station basins that failed to submit ET readings or not submitted by the 14th of the following month, as required by the Miami-Dade County Code.	3. Continue placing under Incomplete Moratorium (IN) Pump Station basins that fail to submit ET readings or do not submit them by the 14th of the following month, as required by the Miami-Dade County Code.
			3.1 Completed automatization of Database to automatically generate Notification Letters to all Utilities and Private systems when they fail to submit ETs. Application in use since December 31, 2020	3.1. Continue using the application to issue/send automatic enforcement notifications when utilities or Private PS fail to submit ET Data on time.
			4. Continued to use the WEB application for the monthly submittal and tracking of the ET readings to automatically place pump station basins under Incomplete Moratorium (IN) every time a Triplicate Reading was detected.	4. Continue to use the WEB application for the monthly submittal and tracking of the ET readings to automatically place pump station basins under Incomplete Moratorium (IN) every time a Triplicate Reading is detected.
			4.1 Completed automatization of Database to automatically generate Notification Letters to all Utilities and Private systems when TRIPLICATE ET readings are reported.	4.1 Coordinate with IT to further enhance and/or implement automatic updates of the PS status.
			5. Continued generating the monthly NAPOT Status & Sewer Allocation reports for all Utilities and Building Officials. All Utilities and Building Officials were notified how to access the NAPOT Status on the WEB, by using the PS Estimator WEB Application.	5. Continue generating the monthly NAPOT Status & Sewer Allocation reports to Utilities and Building Officials for submittal to WASD for storing in Database repository for DEP access. The report provides the updated Moratorium status for each PS basin within the Utility service areas.
			6. Sewer Allocations were de-allocated manually for municipalities according to their monthly reports as submitted to RER-DERM.	6. Continue manually de-Allocations for all municipalities according to their completed monthly reports submitted to RER-DERM.
			6.1 Completed automatic de-allocations of reserved flows for projects that are 10 yrs or more in the system.	6.1 Continue coordination with IT Department to create a WEB Application to allow Building Officials to report on-line the monthly De-Allocation report.
			7. Due the COVID-19 the Quarterly Utility Round Table (URT) Meetings scheduled for April-2021 was not held. The utilities were notified that the next URT meeting (Virtual) was to be held in July-2021	7. Will hold two (2) Virtual Quarterly Utility Round Table (URT) Meetings with all Utilities and/or Utility Representatives to discuss/review compliance issues.

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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar (2) Quarters
18(a)	Adequate Pumping, Transmission and Treatment Capacity Program (continued)	The Adequate Pumping, Transmission and Treatment Capacity Program is being implemented in accordance with Paragraph 18(a) of the CD. This program was undertaken to ensure that adequate transmission and treatment capacity exists within the County. Pursuant to Appendix A of the CD; monthly capacity certification reports are prepared by RER-DERM and kept on file by WASD. Upon request, these reports will be provided to EPA/FDEP.	8. Continued to use the PS system/database to track PS basins, new or upgraded with 26 HP or larger, required to submit ET readings for ALL-PUMPS ON and Midnight-to 5 am hours.	8. Continue requiring/notifying all Utilities that propose or upgrade PS with 26 HP pumps, or larger, to submit ET readings for ALL-PUMPS ON and Midnight-to 5 am hours.
			9. Continued to review Sanitary Sewer System Evaluations, or Amendments, submitted by the utilities. PS moratoriums were reverted as the utilities demonstrated compliance with the SSES, Code requirement of 5,000 GPDIM for the 2nd Cycle.	9. Continue to review Sewer System Evaluations Sytems (SSES) reports or Amendments when submitted by the utilities. PS moratoriums will be reverted as the utilities demonstrate compliance with the SSES, Code requirement of 5,000 GPDIM.
			9.1 Continued the update of the 4th Cycle SSES Requirements / Guidelines. The 4th Cycle report is due by 11/12/2032 for all the public utilities. The 4th Cycle SSES Requirements / Guidelines may also be used for the 3rd Cycle.	9.1 Complete the update of the 4th Cycle SSES Requirements / Guidelines. The 4th Cycle SSES report is due by 11/12/2022 for all public utilities
			10. Started the review of theGIS Water & Sewer As-Built / Atlas submitted by the Utilities.	10. Continue the review the GIS Water & Sewer As-Built / Atlases submitted by each Utility in January-2021 in order to assure compliance with Code requirements.
			10.1 DERM staff used the GIS Water & Sewer Atlases & As-Built layers to determine Adequate Pumping, Transmission and Treatment capacity, an other reviews/approvals requiring Water and Sewer information.	10.1 DERM staff will continue using the GIS Water & Sewer Atlases & As-Built layers to determine Adequate Pumping, Transmission and Treatment capacity, an other reviews/approvals requiring Water and Sewer information.
			11. Updated Moratorium status of PS basins for which the utility completed and certified the Corrective Action Plan(s) (CAP) to bring basin Nominal Average Pump Operating Time (NAPOT) below the 10 hours.	11. Continue Updating Moratorium status of PS basins for which the utilities completed and certified the Corrective Action Plan(s) (CAP) to bring basin Nominal Average Pump Operating Time (NAPOT) below the 10 hours.
			12. Continued Electronic reviews for construction permits pertaining to new or upgrades of Domestic Wastewater Collection and transmission systems for ALL utilities within the Miami-Dade County service areas.	12. Continue electronic reviews for new construction permits or upgrades of Domestic Wastewater Collection and transmission systems for ALL utilities within the Miami-Dade County service areas.
			13. Continued with the CONCURRENT review process for new projects or upgrades of Domestic Wastewater Collection and transmission systems under the jurisdiction of the County's Miami-Dade Water and Sewer Department.	13. Continue performing CONCURRENT reviews for new or upgrades of Domestic Wastewater Collection and transmission systems under the jurisdiction of the County's Miami-Dade Water and Sewer Department.
14. Continued coordination with IT to create a WEB Application to allow Building Officials to report the monthly De-Allocation report.	14. Continue coordination with IT Department to create a WEB Application to allow Building Officials to report the monthly De-Allocation report.			

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

Paragraph	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar (2) Quarters
18(b)	Pump Station Remote Monitoring Program	The Pump Station Remote Monitoring Program is being implemented in accordance with Paragraph 18(b) of the CD. The continuing program involves the installation and operation of remote monitoring equipment in all Pump Stations in the Wastewater Collection and Transmission System (WCTS) within 6 months after the County becomes operationally responsible for Pump Station. The pump station monitoring system shall continuously monitor, report and transmit data.	Work on the program has been ongoing, completed Data Review & Data Configuration sections of the project plan. Currently completing the reporting components for the WWTP/WTP Custom Monthly Regulatory Reports. Configuration of the Pump Station data mapping is ongoing, as is sensor importing for Rain Vieux Data, USGS data and NOAA data.	Work on the program is ongoing and will continue beyond June 30, 2021.
18(c)	Wastewater Collection and Transmission System Model (Continued)	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>An updated version of the WASD WCTS effective model incorporated all the changes to the system supplied in the second quarter. The 2nd quarter effective hydraulic model submittal that includes:</p> <ol style="list-style-type: none"> 1.InfoWorks ICM Transportable Model Files 2.Model Changes Log 3.Transmittal Letter with summary of modifications 4.Dashboard – 2020 AADF 5.User Defined Flags – CSV File, TM, Changes Log 6.Inflows File <p>The model also includes a Pump Station Dashboard that provides a detailed summary/overview of the pump station results for existing scenario annual average daily flow condition was delivered along with the effective model.</p> <p>The model update was completed through May 19, 2021.</p>	<p>Continue efforts to update hydraulic model with information available for improvement projects associated with Consent Decree, WASD Master Plan, Pump Station Improvement Program as well as New Development Projects in an effort to maintain the most up to date projection scenarios for current year and years 2025, 2035, and 2040 in the WASD hydraulic model.</p> <p>The model update is finaling the 3rd quarter effective hydraulic model submittal, expected August 2021. This effort is to address Section VI, Paragraph (18).(c).(iv) of the Consent Decree.</p>
18(d)	Spare Parts Program	The Spare Parts Program is being implemented in accordance with Paragraph 18(d) of the CD. This program is a continuing inventory management program for spare parts for the WCTS and WWTPs.	Work on the program has been ongoing.	The existing program will be enhanced as the new CMOM Programs are implemented. Work on the program is ongoing and will continue beyond June 30, 2021.

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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar (2) 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.	1. Monitored and tracked the monthly submittal of the Elapsed Time (ET) readings by each Volume Sewer Customer utility.	1. Continue Monitoring and tracking of the monthly submittal of the Elapsed Time (ET) readings by each Volume Sewer Customer utility.
			2. Placed under Moratorium Pump Stations (PS) basins under the jurisdiction of the Volume Sewer Customer utilities that exceeded the maximum 10 hours pursuant to the Nominal Average Pump Operating Time (NAPOT).	2. Continue placing under Moratorium Pump Station (PS) basins under the jurisdiction of the Volume Sewer Customer utilities that exceed the maximum 10 hours pursuant to the Nominal Average Pump Operating Time (NAPOT).
			3. Placed under Incomplete Moratorium (IN) Pump Station basins that failed to submit ET readings or not submitted by the 14th of the following month, as required by the Miami-Dade County Code.	3. Continue placing under Incomplete Moratorium (IN) Pump Station basins that fail to submit ET readings or do not submit them by the 14th of the following month, as required by the Miami-Dade County Code.
			3.1 Completed automatization of the WEB ET Application to generate Notification Letters to all Utilities and Private systems when they fail to submit ETs.	3.1. Continue implementing the automatic generation of Moratorium / Enforcement letters when utilities and Private systems when they fail to submit ET Data on time.
			4. Updated Moratorium status of PS basins under the jurisdiction of the Volume Sewer Customer utilities for which the utility completed and certified the Corrective Action Plan(s) (CAP) to bring basin Nominal Average Pump Operating Time (NAPOT) below the 10 hours.	4. Continue updating Moratorium status of PS basins under the jurisdiction of the Volume Sewer Customer utilities for which the utilities complete and certify the Corrective Action Plan(s) (CAP) to bring basin's Nominal Average Pump Operating Time (NAPOT) below the 10 hours.
			5. Created the Volume Sewer Customer Utilities monthly Nominal Average Pump Operating Time (NAPOT) Status Report. Moratoriums were updated accordingly.	5. Continue to generate the Volume Sewer Customer monthly Certification of Nominal Average Pump Operating Time (NAPOT) Status report.
			6. Continued to use the PS system/database to track PS basin Moratoriums related to SSOs.	6. Continue to use the PS system/database to track PS basin Moratoriums related to SSOs.
			6.1 Completed the enhancement of the PS Database to flag the PS if placed under moratorium for No Ets or Triplicate Readings. However, this enhancement has not been placed in production.	6.1 Place into production the enhancement 0to flag the PS if placed under moratorium for No Ets or Triplicate Readings submitted.
			7. Issued enforcement letters or RFIs for SSO events reported or documented by DERM personnel, as needed.	7. Continue to issue enforcement letters or Requests for Information (RFIs) for SSO events reported or documented by DERM personnel, as needed.
			7.1 Placed Moratoriums on basins that experienced multiple SSOs, in order to minimize or prevent additional SSOs.	7.1 Implement Moratoriums as needed to minimize or prevent additional SSOs.

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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar (2) Quarters
18(e)	Volume Sewer Customer Ordinance Program (continued)	The VSC Program and the VSC Ordinance were amended in accordance with Paragraph 18(e) of the CD. The Purpose of this program is to eliminate or otherwise control SSOs from the WCTS and the collection and transmission systems of present and future VSCs. Revisions are to be made to the VSC Program and the VSC Ordinance and submitted to EPA/FDEP for approval prior to implementation.	<p>8. Continued to review the Volume Sewer Customer's Sanitary Sewer System Evaluations (SSES), or Amendments, submitted by the Volume Sewer Customer utilities.</p> <p>Moratoriums status were reverted as the utilities demonstrated compliance with the SSES, Code requirement of 5,000 GPDIM.</p>	<p>8. Continue to review the Volume Sewer Customer's Sanitary Sewer System Evaluations (SSES), or Amendments, as submitted.</p> <p>PS moratoriums will be reverted if the utilities demonstrate compliance with the 5,000 GPDIM SSES Code requirement or the moratorium status remains if the utility does demonstrate compliance.</p>
			<p>9. Followed-up on the enforcement action against utilities that reported SSOs during this period. Moratoriums were placed on repeat SSO to prevent future discharges subject to the utility implementation of corrective actions.</p>	<p>9. Continue enforcement action against any utility that experiences repeat SSOs and implement monitoring and/or inspections, as needed, with the intent to prevent or minimize SSOs. Moratoriums will be placed in cases of repeat SSOs pending the submittal of corrective actions by the utility.</p>
			<p>10. Due to COVID-19 Virtual Meetings were held with the Utility/Municipal Officials during this period.</p>	<p>10. As needed, schedule additional meetings with the Utility/Municipal officials, as needed.</p>
			<p>11. Implemented automatic De-Allocations of reserved flows that have been in the database for 10 years or more. This process provided additional flow capacity for new/future developments.</p>	<p>11. Continue to De-Allocate reserved flows that have been in the database for 10 years or more. This process provided additional flow capacity for new/future developments.</p>
			<p>11.1 Performed manual De-Allocations of reserved flows that have been in the database for projects completed, expired, canceled or CO'ed.</p>	<p>11.1 Continue performing manual De-Allocations of reserved flows for projects completed, expired, canceled or CO'ed.</p>
			<p>12. All Volume Sewer Customer utilities and/or representatives participated in two (2) Virtual URT Meetings held during the first two (2) quarters in 2021.</p>	<p>12. Continue to use Virtual URT meetings to with all Volume Sewer Customer utilities to share or inform about Code Requirements, Compliance status, and ways to improve efficiency in all programs involving.</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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar (2) Quarters
18(e)	Volume Sewer Customer Ordinance Program (continued)	The VSC Program and the VSC Ordinance were amended in accordance with Paragraph 18(e) of the CD. The Purpose of this program is to eliminate or otherwise control SSOs from the WCTS and the collection and transmission systems of present and future VSCs. Revisions are to be made to the VSC Program and the VSC Ordinance and submitted to EPA/FDEP for approval prior to implementation.	13. Reviewed Annual and Semi-annual reports submitted by the Volume Sewer Customer Utilities, which include Illicit Stormwater Connections, SSES and CMOM work related reports.	13. Review the Annual and semi-annual reports as submitted by the Volume Sewer Customer Utilities, for Illicit Stormwater Connections, SSES and CMOM work related reports.
			14. Compiled notes from the reviews completed of all Volume Sewer Customer Utilities about the GIS WASD As-Built / Atlases submitted. Continue reviews of the GIS WASD As-Built / Atlases submitted by each Volume Sewer Customer Utility in January-2021 to assure compliance with Code requirements.	14. Continue reviews of the GIS WASD As-Built / Atlases submitted by each Volume Sewer Customer Utility to assure compliance with Code requirements.
			15. Completed an inspection program of all private sanitary sewer pump stations in the County. DERM initiated enforcement actions for violations/deficiencies identified during the inspections.	15. Plan to star/repeat the inspection program of all public and private sanitary sewer pump stations. 15.1 Plan Inspection of properties that obtained Sewer Extension permits and the permit has expired.
			16. Due to COVID-19 and staffing, reviews of the Sanitary Sewer System Model Survey/Report received from the Volume Sewer Customer Utilities is pending.	16. Plan to secure staff to assist with the reviews of the Sanitary Sewer System Model Survey/Report received from each Volume Sewer Customer Utilities.
			17. Due to COVID-19 and staffing the review of televising reports received from the utilities having sanitary sewer collection and transmission systems within well field protection areas is pending.	17. Plan to secure staff to assist with the reviews of the televising reports received from the utilities having sanitary sewer collection and transmission systems within well field protection areas.

Table A-2.1 New CMOM Programs

Paragraph	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
19(a)	Fats, Oils and Grease Control Program	The Fats, Oils and Grease (FOG) Control Program is being implemented in accordance with Paragraph 19(a) of the CD. DERM is responsible for implementing and managing the FOG Control Program which regulates industrial and commercial sources of FOG. The Program involved the review, evaluation and revision of the County's previous FOG Control Program. An updated FOG Control Program and accompanying FOG Ordinance were approved by EPA and FDEP on September 7, 2017 and enacted by The Board of County Commissioners on February 21, 2018. The FOG Ordinance became effective March 5, 2018.	1. Provided updated in-house training to FOG Control Technicians and Inspectors.	1. Provide updated in-house training to FOG Control Technicians and Inspectors.
			2. Updated and distributed FOG "Did You Know" flyers to Municipalities and posted on DERM webpage. Due to COVID-19 flyers were not distributed in person.	2. Update and distribute Outreach flyers. Flyers will be distributed by DERM Plan Review, FOG Technicians/Inspectors, and Liquid Waste Transporters. Reevaluate our outreach for FSE in order to adapt to new challenges.
			3. Continued FOG Outreach, including workshops. FOG and Utility Round Table meetings where held virtually via Microsoft Teams.	3. Continue FOG Outreach, including West Coast Inspectors Workshop (in-person or virtual). Virtual FOG and Utility Round Table meetings will continue.
			4. Continued to receive monthly hauled waste disposal data from MD-WASD and Pompano/Broward using the eManifest system. Assigned FOG Inspectors to run eManifest Reports and schedule inspections based on findings.	4. Continue to receive monthly hauled waste disposal data from WASD and Pompano/Broward. Assign FOG Inspectors to run eManifest Reports and schedule inspections based on findings.
			5. Updated FSE FOG Operating Permit (GDO) conditions, and included training requirements.	5. Review FSE FOG Operating Permit (GDOs) conditions and update accordingly. Prior to issuance of permits there will be virtual outreach events to inform regulated community about changes to permit conditions and also to provide them with general information about their permits.
			6. Continued enforcement (and compliance assistance) with NGTs Food Service Establishments (FSE). 100% of these facilities are under enforcement; however, due to COVID-19 compliance has only been reached for 94.82% of them.	6. Continue enforcement (and compliance assistance) with NGTs Food Service Establishments (FSE). Goal to achieve 100% compliance continues. Facilities that remain out of compliance (5.18%) will continue under enforcement until 100% compliance is achieved.
			7. Updates to the Liquid Waste Transporter (LWT) permit conditions were completed	7. Review LWT Permit conditions and update accordingly. This is going to be an annual exercise. Also, virtual outreach events to inform regulated community about changes and to have them familiarized with permit conditions will be scheduled every year before permit issuance.
			8. Monitoring of "NO COMMINGLING of FOG" (implemented April 1, 2017) at the South District Wastewater Treatment Plant has been put on hold because of COVID-19 and other program priorities due to limited personnel. Assistance provided to treatment plant personnel for 7 days at the request of WASD.	8. These inspections at the South District Wastewater Treatment Plant have been put on hold because of COVID-19 and limited personnel. They will remain on hold at least for the next six months depending on COVID and personnel.
			9. Continued to receive eManifest from LWTs. LWTs not submitting eManifest were advised that their operating permit would not be renewed.	9. Continue compliance assistance and enforcement for LWTs not using eManifest and/or operating without a valid operating permit.

Table A-2.1 New CMOM Programs

Paragraph	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
19(a)	Fats, Oils and Grease Control Program (Continued)	The Fats, Oils and Grease (FOG) Control Program is being implemented in accordance with Paragraph 19(a) of the CD. DERM is responsible for implementing and managing the FOG Control Program which regulates industrial and commercial sources of FOG. The Program involved the review, evaluation and revision of the County's previous FOG Control Program. An updated FOG Control Program and accompanying FOG Ordinance were approved by EPA and FDEP on September 7, 2017 and enacted by The Board of County Commissioners on February 21, 2018. The FOG Ordinance became effective March 5, 2018.	10. Continued to perform and track FOG Construction Inspections, and to document inspection results to improve FOG Plan Review procedures.	10. Continue to perform and track FOG Construction Inspections. Document inspection results to improve FOG Plan Review procedures. Work on developing an on-line FOG Construction Inspection portal.
			11. Continued to track FOG Hot Spots and identify sources(s) and root cause(s). Continued to collect monthly accelerated FOG maintenance reports from utilities.	11. Continue to track FOG Hot Spots and identify sources(s) and root cause(s). Take enforcement as required to remedy FOG Hot Spots. Complaints will be reviewed and prioritized for inspections accordingly.
			12. Continued to work with equipment manufacturers to get FOG Control Devices approved for FOG2.0.	12. Continue to work with equipment manufacturers to get FOG Control Devices approved for FOG2.0.
			13. Implemented FOG related tasks associated with LW-ST2.0 Liquid Waste Transportation & Disposal Guidance Manual, including reviewing random/flagged/other waste sampling reports and cross-referencing eManifest records to identify potential sources of non-complying waste. Also, reviewed monthly FOG facility effluent sampling data for parameter trends. Updated training requirements for disposal facilities.	13. Continue to random/flagged/other waste sampling reports and cross-referencing eManifest records to identify potential sources of non-complying waste, according with the LW-ST2.0 Liquid Waste Transportation & Disposal Guidance Manual. Also, review monthly FOG facility effluent sampling data for parameter trends. Also includes updating training requirements for disposal facilities.
			14. Continued to track/record Key Performance Indicators and Performance Measures to evaluate and improve the FOG Control Program, to be used for the 4th FOG Control Program Annual Review Report.	14. Continue to track/record Key Performance Indicators and Performance Measures to evaluate and improve the FOG Control Program, to be used for the 5th FOG Control Program Annual Review Report.
			15. Developed or approved training programs for 2021 permitting cycle for LWTs and Disposal Facilities. Pending implementation by WASD.	15. Continue developing or approving training programs for 2022 permitting cycle for LWTs and Disposal Facilities.
			16. Continued the Public Outreach program in collaboration with WASD. Some events scheduled for the last two quarters were cancelled because of COVID-19.	16. Continue preparing and implementing Public Outreach program outline and schedule in collaboration with WASD. Implementation of the Residential Outreach program that was due by March 5, 2020 is still being impacted by COVID-19.
17. Contacted local business improvement districts (BIDs) to improve the outreach for businesses. Invited to quarterly virtual outreach events.	17. Coordinate meetings with local business improvement districts (BIDs) to improve the outreach for businesses.			

Table A-2.1 New CMOM Programs

Paragraph	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
19(a)	Fats, Oils and Grease Control Program (Continued)	The Fats, Oils and Grease (FOG) Control Program is being implemented in accordance with Paragraph 19(a) of the CD. DERM is responsible for implementing and managing the FOG Control Program which regulates industrial and commercial sources of FOG. The Program involved the review, evaluation and revision of the County's previous FOG Control Program. An updated FOG Control Program and accompanying FOG Ordinance were approved by EPA and FDEP on September 7, 2017 and enacted by The Board of County Commissioners on February 21, 2018. The FOG Ordinance became effective March 5, 2018.	18. Continued working in collaboration with municipalities to reduce FOG impact in the Collection system, including sharing information and resources. Specifically City of Miami Beach, Town of Medley, North Miami, and Coral Gables.	18. Continue working in collaboration with municipalities to reduce FOG impact in the Collection system, including sharing information and resources. Specifically City of Miami Beach, Town of Medley, North Miami, and Coral Gables.
			19. Continued quarterly coordination meetings with the disposal facility (WASD) for the Liquid Waste Transporters program.	19. Continue quarterly coordination meetings with the disposal facility (WASD) for the Liquid Waste Transporters program.
			20. Continued enforcement (and compliance assistance) with FSEs to procure compliance with the current regulations. This includes unpermitted facilities, as well as existing facilities with FOG discharges over the minimum allowed, or not complying with operating permit conditions.	20. Continue enforcement (and compliance assistance) with FSEs to procure compliance with the current regulations. This includes unpermitted facilities, as well as existing facilities with FOG discharges over the minimum allowed, or not complying with operating permit conditions.
			21. Planned to implement annual routine inspections to the current 7,578 GDO permitted facilities.	21. Plan to implement annual routine inspections to the current 7,578 GDO permitted facilities, pending on COVID-19 and approval of additional staff.
			22. Collected data for Hot Spots from utilities and continued to perform complaints inspections. Because of COVID-19 these inspections are on hold.	22. Begin Hot Spot inspections and continue complaints inspections. Estimated as 336 inspections per year, pending approval of additional staff. Pending also on COVID-19.
			23. Planned to implement inspections to residential areas identified by the Utilities as potential sources of FOG blockages.	23. Implement inspections to residential areas identified by the Utilities as potential sources of FOG blockages, pending COVID-19 and approval of additional staff.
			24. Because of Covid-19 and staffing, confirmation inspections to facilities reported as closed were not started.	24. Begin confirmation inspections to facilities reported as closed. Estimated that 50% of the total 3,756 facilities are expected to be inspected by 2021-2022, pending approval of additional staff. Also it will depend on COVID-19.
			25. Continued reviewing OL/CU/LBTR applications for FSEs. To assure compliance with FOG Control Program regulations.	25. Continue reviewing OL/CU/LBTR applications for FSEs. To assure compliance with FOG Control Program regulations.
			26. Continued reviewing construction plans for FSEs, to assure compliance with current regulations codified under 24-42.6(8) and (9).	26. Continue reviewing construction plans for FSEs, to assure compliance with current regulations codified under 24-42.6(8) and (9).
			27. FOG Accelerated Maintenance Application was completed and implemented. Pending further testing by Municipalities.	27. Complete update and re-implementation of FOG Accelerated Maintenance Application.
28. Performed inspections in response to SSOs due to grease	28. Continue inspections in response to SSOs due to grease			

Table A-2.1 New CMOM Programs

Paragraph	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
19(b)	Sewer Overflow Response Plan	The SORP is a program for identifying and reporting SSOs. The SORP is being implemented in accordance with Paragraph 19(b). This Plan will establish timely and effective methods and means of responding to, cleaning up, and/or minimizing the impact of SSOs; timely reporting of the location, volume, cause, impact, and other pertinent SSO information to the appropriate regulatory agencies; and timely and effective notification of SSOs to potentially impacted public. In addition, the plan involves a re-evaluation of the County's previous program.	Work on the program was ongoing: 1. Continued all required SSO reporting 2. Continued holding monthly SSO evaluation meetings 3. Continued use of the Consolidated SSO Database 4. Continue development of the Building Backup Application.	Work on the program will include the activities listed in the CMOM Implementation Schedule will continue.
19(c)	Information Management System Program	The IMS Program is being developed in accordance with Paragraph 19(c). This Program will aid County managers and field supervisors to adequately track scheduled operational and maintenance activities; evaluate operations, maintenance, customer service and Sewer System rehabilitation activities and improve overall Sewer System performance.	Work on the program was ongoing: 1. Continued working on transitioning PCTS software from Proliance to e-Builder, to enhance Construction Contracts Management project close-out business practices. 2. Continued the development of CMOM performance measures and KPI tracking. 3. Continued enhancements of EAMS to improve maintenance processes and activities, including implementation of PFAC codes, maintenance checklists, incorporating monitored data for automating schedules, and deployment of mobile devices. 4. Procured SCADA Watch	1. Continue working on transitioning PCTS software from Proliance to e-Builder. 2. Continue the development of CMOM performance measures and KPI tracking. 3. Continue enhancement of EAMS 4. Begin Phase 1: MOR and DMR reporting implementation
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.	1. Manhole rim and pipe inverts and their inclusion into GIS - Completed. Updates continue as part of the GIS data maintenance process. 2. Streamlining the manual as-built to GIS process to satisfy 90 day requirement – Completed. Improvements continue as opportunities arise. 3. GIS to Hydraulic Model Integration to satisfy 90 day requirement from GIS to Model – Completed. Updates continue 4. GIS Training Refresher Program 5. Electronic As-Built Submittal - Completed. 6. eBuilder CIP GIS integration	SPIDER manhole inspection solutions has been implemented and is currently being reconfigured to meet changing procedural requirements for this quarter. GIS integration is continuing. The GIS integration of all projects conveyed and activated are being tracked. The metrics will be reported in the 2021 Annual Report. The GIS Hydraulic Model integration of all projects conveyed and activated are being tracked. The metrics will be reported in the 2021 Annual Report. Providing virtual training courses via WASD Hub web site. Additional courses and updates are in progress. On-site training will be provided as needed. Enhancing processes, including CAD, to facilitate automating CAD to GIS conversion. Process has been updated to incorporate CAD 2016 format and above. Currently pilot testing process with contractors. Enterprise GIS web editing for Capital Improvement Projects (CIP) is in the final testing phase and preparing for eBuilder CIP go-live. GIS editing has been added to eBuilder CIP process.

Table A-2.1 New CMOM Programs

Paragraph	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
19(d)	Sewer System Asset Management Program	The Sewer System Asset Management Program is being developed in accordance with Paragraph 19(d). This Program will maintain a desired level of service for the County's Sewer System considering life cycle cost to ensure compliance with regulatory requirements and the CD.	Work on the program was ongoing.	Work on the program will include the activities listed in the CMOM Implementation Schedule will continue.
19(e)	Gravity Sewer System Operations and Maintenance Program	The Gravity Sewer System Operations and Maintenance Program is being developed in accordance with Paragraph 19(e) of the CD. This Program will address SSOs, particularly those caused by FOG, roots and/or debris obstructions. The program will facilitate proper operation and maintenance activities associated with gravity mains in the WCTS.	Work on the program was ongoing: 1. Continued to deploy Smart Covers to "hot spots" to closely monitor and prevent SSOs. 2. CCTV contract to inspect for gravity sewer mains for Pump Station 0001 on going and 80 percent completed. 3. CCTV inspection matrix was implemented for a 10 year cycle.	Work on the program will include the activities listed in the CMOM Implementation Schedule and will continue beyond December 31, 2021.
19(f)	Pump Station Operations and Preventative Maintenance Program	The Pump Station Operations and Preventive Maintenance Program is being developed in accordance with Paragraph 19(f) of the CD. This Program will facilitate proper operation and maintenance activities associated with the Pump Stations within the WCTS.	Work on the Program was ongoing: 1. Implementation of upgrades to the Pump Station Division's electronic asset management system to include Problem, Failure, Action, and Cause codes, and Preventative Maintenance schedules. 2. Finalized implementation and deployment of electronic tablets for field staff for their use in accessing the asset management system remotely. 3. Started discussions with WASD staff and outside consultants to commence the asset inventory and condition assessment process	Work on the program will include the activities listed in the CMOM Implementation Schedule and will continue beyond December 31, 2021. Continue discussions with WASD staff and outside consultants to commence the asset inventory and condition assessment process

Table A-2.1 New CMOM Programs

Paragraph	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
19(g)	Force Main Operations, Preventative Maintenance and Assessment/Rehabilitation Program	The Force Main Operations, Preventative Maintenance and Assessment/Rehabilitation Program is being developed in accordance with Paragraph 19(g) of the CD. This program will facilitate proper operations and maintenance activities associated with Force Mains within the WCTS. It will also help produce a criticality assessment of the structural integrity of its Force Mains and the risk of Force Main critical failure. The Force main Rehabilitation/Replacement Program includes standard procedures for repairing, rehabilitating and replacing force mains.	Work on the Program was ongoing: 1. The Force Main Assessment Program is pending approval of the Criticality Assessment and Prioritization Report (submitted to the EPA/FDEP on July 17, 2018). 2. Re-inspection cycle for 60-inch and 66-inch PPCP pipes in the south area of the County was completed. 3. Convened working group to discuss and establish SOPs for the evaluation of soils, develop specifications for the use of inert materials, and develop standards for corrosion control options	Work on the Program will include the activities listed in the CMOM Implementation Schedule and will continue beyond December 31, 2021. Re-inspection cycle for 72-inch PPCP pipes in the south area of the County to take place during the next dry season. Continue working group to discuss and establish SOPs for the evaluation of soils, develop specifications for the use of inert materials, and develop standards for corrosion control options
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.	Work on the program was ongoing: 1. Continued random collection of hauled waste as a standard practice. The random sample collection practice and procedures used at the SDWWTP are in accordance with EPA's Handbook Guidance Manual for Control of Hauled Wastes EPA 833 B 98 003, Section 24-42.4 of the Miami-Dade Code, and the Hauled Waste Guidance Manual. 2. RER-DERM/WASD Coordination Meetings were held via Microsoft Teams on February 24, 2021 and on May 12, 2021 to discuss Hauled Waste Program and any issues or concerns related to illicit hauled waste or discharges to the plant or collection system. 3. Spotter training was held as part of the continuous training to be held each quarter.	Work on the Program will include the activities listed in the CMOM Implementation Schedule and will continue beyond December 31, 2021. Next RER-DERM/WASD Coordination Meetings will be held on August 4, 2021 and October 27, 2021 to discuss Hauled Waste Program and any issues or concerns related to illicit hauled waste or discharges to the plant or collection system.
19(j)	Financial Analysis Program	The Financial Analysis Program is being implemented in accordance with Paragraph 19(j) of the CD. The purpose of this program is to effectively establish and track the sufficiency of funds for operations and maintenance, capital projects financing, and debt service coverage associated with the Sewer System, including, without limitation, the continued Work pursuant to the CD.	Work on the program was ongoing. Financial Analysis Program Report, which includes the expenditures for both operating and capital from FYTD October 2019 through March 2021 can be found in Appendix C.	Work on the program will include the activities listed in the CMOM Implementation Schedule will continue.

Table A-3.1 South District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) 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.	This project reached substantial completion on November 6, 2019, ahead of CD compliance date of February 23, 2020.	N/A
1.2	Oxygen Production	The SDWWTP Oxygen Production project will be performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to construct a new electrical building which include new electrical equipment, procure and install a new compression unit #4 and retrofit existing air compression unit #3.	Construction continued.	Construction will continue.
1.3	Oxygenation Trains	The SDWWTP Oxygen Trains project will be performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to retrofit aeration mixers and rehabilitate and apply surface coating to the structure. This project was split into three child projects: (1) for the structural rehab of the trains, (2) for the electrical building expansions and mixer upgrades (OOL) and (3) oxygenation train - SS 5/6 and SS 15/16 (OOL).	1.3(1) Construction Train 4 Oxygenation tanks structural rehab completed July 31, 2020. 1.3(2) Permitting for Electrical Building Expansion and Oxygenation Trains Mixer Upgrades was completed and procurement commenced. 1.3(3) Design and permitting for oxygenation train - SS 5/6 and SS 15/16 completed. Procurement commenced.	1.3(1) Structural Rehabilitation of the oxygen trains has been completed. 1.3(2) Procurement for Electrical Building Expansion and mixer upgrade will continue. 1.3(3) Procurement for oxygenation train - SS 5/6 and SS 15/16 will continue.
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.	Construction commence, NTP for this projects was issued December 23, 2020	Construction will continue.
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 1 through 4. This project has been split into three separate child projects: (1) structural rehabilitation of the effluent pump wet wells; (2) the building improvements and equipment for the remaining pumps (1-6); (3) the electrical equipment associated with pumps 7, 8 and 9.	1.5(1) This child project reached substantial completion on May 26, 2020. 1.5(2) Construction continued. 1.5(3) Completed on January 23, 2016.	1.5(1) N/A 1.5(2) Construction will continue. 1.5(3) N/A
1.6	Gravity Sludge Thickeners	The SDWWTP Gravity Sludge Thickeners project will be performed pursuant to Paragraph 19(i) and Appendix D. The objective of this project is to provide a combined Thickening and Dewatering facility under one common building. The existing sludge concentrators will be abandoned and a centrifuge thickening system will be utilized. This project is being performed under design-build delivery method.	Design Build project Notice to Proceed was issued on July 6, 2020. Currently the project is in design-build phase, transitioning from 60% design towards 100% NFC and construction started with building's foundation and shell work.	Design/Build Construction will continue.

Table A-3.1 South District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
1.7	Digesters and Control Buildings	The SDWWTP Digester and Control Buildings project will be performed pursuant to Paragraph 19(i) and Appendix D. The project involves the rehabilitation or replacement of digester roofs for Clusters 1 and 2; 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. This project also includes the construction of a new substation 7 & 8, a new Acid Phase Building and new Gas Flares.	Construction continued.	Construction will continue.
1.8	Dewatering Facility	The SDWWTP Dewatering Facility project is being performed pursuant to Paragraph 19(i) and Appendix A. The purpose of this project is to replace the existing interim dewatering building with a new permanent dewatering facility. This will improve sludge dewatering and decrease solids accumulation in the secondary treatment process and prevent effluent limit violations. This project is being performed under design-build delivery method.	Design Build project Notice to Proceed was issued on July 6, 2020. Currently the project is in design-build phase, transitioning from 60% design towards 100% NFC and construction started with building's foundation and shell work.	Design/Build Construction 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 existing 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. A new FOG facility is currently under design.	This project reached substantial completion on March 26, 2019, ahead of the CD compliance date of May 24, 2019.	N/A
1.10	Odor Control	The SDWWTP Odor Control project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to upgrade the odor control facilities serving Headworks Plant 1 and Plant 2.	Procurement continued.	Construction will commence.
1.11	General Electrical	The SDWWTP General Electrical project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation and replacement of electrical equipment, controls and wiring as needed throughout the plant. This project schedule has been broken down into multiple child/sub projects to better reflect the way the work is being executed: 1.1) SDWWTP Substation 9-12; 1.2) Generator Repairs; 2) Replacement of primary feeders from Main Switchgear A & B to Effluent Pump Station Pumps 1-6 (Part of 1.05(2))	1.11(1.1) Notice to Proceed was issued on September 08, 2020. Construction continued 1.11(1.2) Award was rescinded due to unacceptable bid. Procurement (Re-bid) continued. 1.11(2) Construction continued.	1.11(1.1) Construction will continue. 1.11(1.2) Procurement will be completed. 1.11(2) Construction will continued.

Table A-3.1 South District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
1.12	Chlorine Contact Chamber Structural Rehabilitation	The SDWWTP Chlorine Contact Chamber Structural project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the structural rehabilitation and coating of chlorine contact chambers 1 through 4. This project was split into two child projects: 1.12(1) Chlorine Contact Chamber Actuator Replacement; and 1.12(2) Chlorine Contact Chamber Structural Rehab & Sluice Gates Replacement.	1.12(1) Actuator Replacement reached substantial completion on June 5, 2018. 1.12(2) Structural rehab. of contact chambers # 3 and #4 continued completed July 9, 2020. Procurement for Structural rehab. of Contact Chamber #2 completed, NTP issued on November 30, 2020. Project reached substantial completion April 5, 2021	N/A

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) 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 to reflect more accurately reflect the way the work is being executed:</p> <ol style="list-style-type: none"> 1) CDWWTP General Electric In-house Construction - Substations 1 and 2. 2) Substations 3, 4A, 4B, 5 & 6 – This work is part of Project 2.27(2). 3) Substations 9 & 10 - This work is part of Project 2.10(1). 4) Substations 11 & 12 – This work is part of project 2.11. 5) Substations 15 & 16 – This work is part of Project 2.15(1). 6) Substations 17 & 18 – This work is part of Project 2.19(2a). 7) Substations 7A, 8A, 9A & 10A 	<p>Note: The majority of this work will be done in conjunction with other CD projects.</p> <ol style="list-style-type: none"> 2.1(1) Construction Substations 1 & 2 Completed on May 5, 2016. 2.1(2) Construction continued. 2.1(3) Construction continued. 2.1(4) Construction continued. 2.1(5) Construction continued. 2.1(6) Construction was completed on October 4, 2019. 2.1(7) Procurement was completed and construction commenced. 	<ol style="list-style-type: none"> 2.1(1) N/A 2.1(2) Construction will continue. 2.1(3) Construction will continue. 2.1(4) Construction will be completed. 2.1(5) Construction will be completed. 2.1(6) N/A 2.1(7) Construction will continue.
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 child projects. 1a) Building Improvements - Administration Building Asbestos Abatement. 1b) Administration Building Interior Improvements 1c) Miscellaneous Roof Improvements 2) Remodel Bathrooms, Locker Rooms & Showers.</p>	<p>This project reached substantial completion on January 17, 2020.</p> <ol style="list-style-type: none"> 2.2(1a) Completed on June 1, 2015. 2.2(1b) Construction was completed on January 17, 2018. 2.2(1c) Completed on October 19, 2016. 2.2(2) Completed on January 17, 2020. 	N/A
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.</p>	<p>This project reached substantial completion on March 7, 2019, ahead of the CD compliance date of March 16, 2019.</p>	N/A
2.4	Headworks Plant 2	<p>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.</p>	<p>This project reached substantial completion on August 13, 2019, ahead of CD compliance date of August 23, 2019.</p>	N/A
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>Structural rehabilitation work for Train #2 and Train #3 were performed by WASD in-house forces during the dry seasons.</p>	<p>This project reached substantial completion on June 22, 2018, ahead of the CD compliance date of April 12, 2019.</p>	N/A

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) 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.	Notice to Proceed issued on November 2, 2020. Construction for Train #4 structural rehab continued.	Construction for Train #4 structural rehab will continue and will be completed.
2.7	Secondary Clarifiers Plant 1	The CDWWTP Secondary Clarifiers Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to rehabilitate the structure and replace the sludge collection mechanisms in the plant. This project has been split in 3 child projects: 1) Secondary Clarifiers Plant 1 RAS pump discharge piping. 2) Secondary Clarifiers Plant 1 Train Mechanisms. 3) Secondary Clarifiers Plant 1 Structural Rehab.	2.7(1) Procurement commenced 2.7(2) Mechanism upgrade work postponed for Tank #3 due to rephasing. Expected to commence in 2024. 2.7(3) Structural rehabilitation of Tank #3 postponed due to rephasing. Expected to commence in 2024	2.7(1) Procurement will continue. 2.7(2) Construction on hold. 2.7(3) Procurement on hold.
2.8	Secondary Clarifiers Plant 2	The CDWWTP Secondary Clarifiers Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to rehabilitate the structure, replace the sludge collection mechanisms in the plant and provide electrical equipment for new annex building. This project has been split into three child projects: 1) RAS pump discharge piping, 2) Train Mechanisms, and 3) Structural Rehab.	2.8(1) Construction continued. 2.8(2) Mechanism upgrades continued for Tanks #8 and 10 were completed. 2.8(3) Procurement for Tank #7 was placed on hold. Re-bid for Tank#4 commenced. Structural rehab of Tank #10 completed.	2.8(1) Construction will continue. 2.8(2) Construction will continue for Tank #8 and will be completed. Tank #7 work will commence. 2.8(3) Procurement for Tank #7 was placed on hold. Procurement for Tank #4 will continue
2.9	RS Pump Stations Plant 1	The CDWWTP RS Pump Stations Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of return sludge pump, piping, motor control centers and structural repairs to the pump stations. Work on this project will be performed in conjunction with Project 2.7.	Procurement continued.	Procurement will continue.
2.10	RS Pump Stations Plant 2	The CDWWTP RS Pump Stations Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of return sludge pump, piping, motor control centers and structural repairs to the pump stations. This project has been split into 2 separate child projects: 1) Return Sludge PS Plant 2 - RAS Pump, 2) Return Sludge PS Plant. 2 - RAS Line.	2.10(1) Construction continued. 2.10(2) Construction of RAS Header Pipe was completed on July 7, 2017.	2.10(1) Construction will continue. 2.10(2) N/A
2.11	Effluent Pump Station	The CDWWTP Effluent Pump Station project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to replace the pump motors and related electrical equipment in the effluent pump station.	Project attained operational level on June 17, 2021	N/A

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
2.12	Sludge Thickeners Plant 1	The CDWWTP Sludge Thickeners Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of the thickened sludge pumps, sanitary sewer pumps, HVAC and electrical systems in the concentrator pump station. The objective of this project is to provide a combined Thickening and Dewatering facility under one common building. The existing sludge concentrators will be abandoned and a centrifuge thickening system will be utilized. This project will be performed in conjunction with projects 2.13 and 2.16 under a design-build delivery method.	Design Build project Notice to Proceed was issued on July 6, 2020. Currently the project is in design-build phase, transitioning from 60% design towards 100% NFC and construction started with building's foundation and shell work.	Design-Build Construction 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.	Design Build project Notice to Proceed was issued on July 6, 2020. Currently the project is in design-build phase, transitioning from 60% design towards 100% NFC and construction started with building's foundation and shell work.	Design-Build Construction 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. This project has been split into 2 different child projects; 2.14(1) refers to digesters in Cluster 1 and 2.14(2) refers to digesters in Cluster 2.	On May 21, 2018, the County requested a Material Change to CD to cancel this project. Request under EPA/FDEP consideration.	Pending consideration of EPA/FDEP once Plant 2 Cluster 1 is completed.
2.15	Digesters Plant 2	The CDWWTP Digesters Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the complete rehabilitation of sludge digester clusters, i.e. roofs, concrete structures, recirculation and transfer pumps, mixers, and electrical pumps. This will prevent the loss of digestion capacity and the decline in biogas/methane production for power generation. In addition, it will decrease the amount of unstable sludge that will require landfill disposal. This project has been split into 4 different child projects; 2.15(1) refers to digesters in cluster 1; 2.15(2) refers to digesters in cluster 2; 2.15(3) refers to digesters in Cluster 3; and 2.15(4) refers to digesters in Cluster 4.	2.15(1) Construction continued. 2.15(2) Construction continued. 2.15(3) Procurement commenced. 2.15(4) Child project deleted as approved by EPA.	2.15(1) Construction will be completed. 2.15(2) Construction will continue. 2.15(3) Procurement will continue.
2.16	Dewatering Building	The CDWWTP Dewatering Building project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to construct a new combined thickening and dewatering facility and sludge cake conveyance system to the sludge storage buildings. This project is being performed under design-build delivery method.	Design Build project Notice to Proceed was issued on July 6, 2020. Currently the project is in design-build phase, transitioning from 60% design towards 100% NFC and construction started with building's foundation and shell work.	Design-Build Construction will continue.

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
2.17	Chlorination Facilities	The CDWWTP Chlorination Facilities project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the design and construction of a new bulk sodium hypochlorite storage and dosing system in separate outdoor structures to replace the existing chlorine gas system.	This project reached substantial completion on July 27, 2018 ahead of the CD compliance date of October 15, 2018.	N/A
2.18	Odor Control Systems	The CDWWTP Cogeneration Facility Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. This involves the replacement of the motor control center of the odor control buildings including air-conditioned electrical rooms. It also involves replacement of odor control chemical pumps, piping, valves and gas stripping tower media. This project will be completed in conjunction with other related projects. A portion of this project 2.18(1) Headworks Odor Controls System, will be performed earlier in coordination with the Headworks projects (2.3/2.4). The remainder will be performed in coordination with the Design-Build Dewatering project (2.16).	2.18(1) This child project reached substantial completion on September 11, 2019. 2.18(2) Design-Build project Notice to Proceed was issued on July 6, 2020.	2.18(1) N/A 2.18(2) Design-Build Construction will continue.
2.19	Co-Gen Facility	The CDWWTP Cogeneration Facility Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. The project involves the installation of two new cogeneration engines, cogeneration building improvements, replacement of biogas pipeline and installation of biogas conditioning system. Thus, this project has been split into separate "child" projects: 1) Co-Gen Generator Replacement, 2a) Co-Gen Biogas Treatment Facilities, and 2b) Co-Gen Restroom and Building Rehab.	2.19(1) Project completed on January 27, 2016. 2.19(2a) Project paused at testing/commissioning stage due to lack of bio gas availability from Digester Clusters. EPA and FDEP notified of the delay on January 10, 2020 and May 21, 2020. 2.19(2b) Project completed on May 18, 2020.	2.19(1) N/A 2.19(2a) Testing and Commissioning to resume pending bio gas availability. 2.19(2b) N/A
2.20	Septage Uploading	The CDWWTP Septage Unloading project is required under Paragraph 19(i) and Appendix D. The CD scope of this project included the construction of a new septage handling station to remove FOG from the main wastewater treatment stream and treat either through digestion or an off-site third part facility. However, the violation associated with this project was resolved by requiring all hauled waste to be sent to the South District WWTP as of January 2013.	Motion to delete Project 2.20 Septage Uploading at CD WWTP has been approved by the Court on December 28, 2016.	N/A
2.21	Pump Station 1	The CDWWTP Pump Station No. 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to rehabilitate the pump station for the odor control system and rehabilitate the bar screen mechanisms.	Construction was completed on December 19, 2019, ahead of the CD compliance date of February 26, 2021.	N/A
2.22	Pump Station 2	The CDWWTP Pump Station No. 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of the pump station odor control system, rehabilitation of bar screen mechanism, and replacement pump stations flow metering to improve maintenance accessibility.	Construction continued.	Construction is expected to be completed.

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
2.23	O ₂ Plant Process Controls Phase 2	The CDWWTP O ₂ Plant Process Controls project is being performed pursuant to Paragraph 19(i) and Appendix D. Existing oxygen production systems are either failing or obsolete. The purpose of this project is to replace existing oxygen production systems.	Construction was completed on April 25, 2016, ahead of the CD compliance date March 9, 2017.	N/A
2.24	Gas Monitoring	The CDWWTP Gas Monitoring project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to monitor gas levels and place alarms in hazardous areas.	Construction was completed on September 29, 2017.	N/A
2.25	Ventilation Improvements	The CDWWTP Ventilation Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to improve ventilation in hazardous areas. This project schedule has been broken down into multiple components to more accurately reflect the way the work is being executed: 1) HVAC Improvements for air scrubber (Project 2.12, 2.13 and 2.16) 2) Headworks HVAC Improvements (Project 2.3/2.4). 3) Digester Control Building HVAC Improvements (Project 2.15(1)). 4) Pump Station 1 HVAC Improvements (Project 2.21). 5) Pumps Station 2 HVAC Improvements (Project 2.22).	2.25(1) Procurement continued 2.25(2) Construction was completed. 2.25(3) Construction continued. 2.25(4) Construction was completed. 2.25(5) Construction continued.	2.25(1) Design-Build construction will continue. 2.25(2) N/A 2.25(3) Construction will continue. 2.25(4) N/A 2.25(5) Construction will be completed.
2.26	Rehabilitation of Walkways and Stairways	The CDWWTP Rehabilitation of Walkways and Stairways project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of corroded walkways, stairways, railings, grating throughout the plant. Work is being performed by in-house WASD resources.	Construction continued.	Construction will continue.
2.27	Oxygen Production	The CDWWTP Oxygen Production project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing units are near the end of useful life and prone to failure. The purpose of this project is to construct a new 80 ton/day oxygen production cryogenic tower and air compression unit to provide full redundancy. This project was split into 2 "child" projects: 1) Oxygen Production Site Preparation, and 2) Oxygen Production Design-Build.	2.27(1) Oxygen Production Site Preparation was completed on June 29, 2017. 2.27(2) Design-Build continued.	2.27(1) N/A 2.27(2) Design-Build will continue.
2.28	SCADA RTU Upgrades	The CDWWTP Building Improvements project was performed pursuant to Paragraph 19(i) and Appendix D. The old radio communication system was obsolete and it was difficult to procure parts. The purpose of the project was to upgrade the SCADA remote telemetry units to maintain operational sustainability.	This project was completed as of February 10, 2014, ahead of the CD compliance date March 29, 2014.	N/A
2.29	High Strength Influent Impact Study	The CDWWTP High Strength Influent Impact Study was performed pursuant to Paragraph 19(i) and Appendix D. The CDWWTP was experiencing an increase in TSS and BOD loading. This study investigated the sources and conceptualized solutions to eliminate or mitigate the change in plant influent characteristics.	Completed. Work started February 2013 and was completed June 5, 2014, ahead of the CD compliance date June 24, 2014.	N/A

Table A-3.3 North District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
3.1	Headworks and Sludge Degritting Transfer	The NDWWTP Headworks and Sludge Degritting and Transfer project is being performed pursuant to Paragraph 19(i) and Appendix D. This project is a two-phase approach to improve the existing screening facilities at the NDWWTP. In Phase 1, bar screens are replaced with perforated plate screens and Phase 2 involves the upgrade of the pretreatment buildings for fire code compliance and replacement of primary sludge grit separation equipment.	Construction was completed on December 6, 2017, ahead of the CD compliance date of April 7, 2018.	N/A
3.2	Primary Clarifiers and Odor Control	The NDWWTP Primary Clarifiers and Odor Control project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of the structures of the primary clarifiers, replacement of the mechanisms, installation of new flat type covers at each clarifier. It also involves the rehabilitation of the mechanical and odor control systems at the plant. This project was split into 2 child projects: 1) Replace Primary Clarifiers for Mechanisms #4 & 6, and 2) Primary Clarifiers and Odor Control (Remaining Scope of Work).	3.2(1) Construction was completed on February 20, 2019. 3.2(2) Construction continued.	3.2(1) N/A 3.2(2) Construction will continue.
3.3	Oxygenation Trains	The NDWWTP Oxygenation Trains project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to rehabilitate the structures of the aeration tanks and its mechanical and electrical systems.	Project is being procured as Design-Build along with CD 3.4. Procurement continued	Procurement will be completed and Design will commence.
3.4	Oxygen Production	The NDWWTP Oxygen Production project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of the structure of the oxygen plant and its mechanical and electrical systems.	Project is being procured as Design-Build along with CD 3.3. Procurement commenced	Procurement will be completed and Design will commence.
3.5	Secondary Clarifiers	The NDWWTP Secondary Clarifiers project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of the structure of the secondary clarifiers and its mechanical and electrical systems. This project was split into 2 child projects: 3.5(1) Replace Mechanisms # 1-10; and 3.5(2) Secondary Clarifiers Remaining Scope of Work.	3.5(1) This child project was completed on March 30, 2017. 3.5(2) Construction continued.	3.5(1) N/A 3.5(2) Construction will continue.
3.6	Disinfection	The NDWWTP Disinfection project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of the chlorine gas storage, liquid chlorination and dosing system with bulk sodium hypochlorite storage and dosing system in the existing chlorine building.	Construction continued.	Construction will be completed.
3.7	Effluent Disposal	The NDWWTP Effluent Disposal project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the installation of standby pumps to ensure effluent disposal capacity and the structural rehabilitation of the ocean outfall pump station wet well. All of the 3.07 work has been combined into a single project. The Deep Injection Well (DIW) mechanical and electrical equipment is being managed by WASD Plant Staff. The CD scope is limited to pumps 5-6, where pumps 1-4 will be funded through the overall WASD CIP.	The Ocean Outfall Pump Station rehabilitation was completed in March 2015. Construction of DIW Pump Station was completed on June 29, 2018.	N/A

Table A-3.3 North District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) 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> <ol style="list-style-type: none"> 1) NDWWTP General Electrical In House Construction Feeders 1 and 2 have been replaced. 2) Electrical Feeders 3-6 Feeders 3-6 will be replaced in conjunction with Project 3.1. 3) Electrical Feeders 7-8 Feeders 7 and 8 will be replaced along with Projects 3.3 & 3.4. 4) Electrical Feeders 9-10 & 13-14 Feeders 11 & 12 were completed due to recent upgrades performed on the deep injection well pump motors. 	<p>3.8(1) General Electrical In-house construction (Feeders 1-2) was completed on January 15, 2016.</p> <p>3.8(2) Electrical Feeders 3-6 (Project 3.1) was completed on December 6, 2017.</p> <p>3.8(3) Electrical Feeders 7-8 designed continued (scope considered under CD 3.3 and CD 3.4)</p> <p>3.8(4) Procurement completed, NTP issued on September 21, 2020. Construction completed</p>	N/A
3.9	Flood Mitigation	<p>The NDWWTP Flood Mitigation project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to mitigate the flood potential in the Generator and Electrical Building at the NDWWTP.</p>	<p>This project was completed on June 24, 2016, ahead of the CD compliance date of August 13, 2017.</p>	N/A
3.10	Yard Piping Replacement	<p>The NDWWTP Yard Piping Replacement project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to replace the wastewater piping that interconnects unit processes throughout the plant.</p>	<p>This project was completed on May 24, 2016, ahead of the CD compliance date of December 4, 2021.</p>	N/A
3.11	SCADA RTU Upgrades	<p>The NDWWTP SCADA RTU Upgrades project is being performed pursuant to Paragraph 19(i) and Appendix D. The current radio communication system is obsolete and it is difficult to procure parts. The purpose of the project is to upgrade the SCADA remote telemetry units to maintain operational sustainability.</p>	<p>This project was completed on November 26, 2014, ahead of the CD compliance date March 24, 2015.</p>	N/A

Table A-4.1 Wastewater Collection and Transmission Lines

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
4.1	Collection System I/I Repairs	The Collection System I/I Repairs project is being performed in accordance with Paragraph 19(i) and Appendix D of the CD. The project targets defective gravity sewers with excessive inflow/infiltration. It involves rehabilitation of the Collection System, i.e. dig & replace mainlines and laterals, manhole replacement, cured-in-place liners and sectional liners and will be performed concurrently with other work.	Work on this project is ongoing.	Work on this project will continue.
4.2	Government Cut FM Phase 1 & 2	The Government Cut FM Phases 1 & 2 project was performed in accordance with Paragraph 19(i) and Appendix D. The purpose of this two-phase project is to replace critically damaged sections of 54-inch force main to avert catastrophic failures in Government Cut. This project involved the replacement of 54 inch FM with 60 inch FM from the water shaft in Government Cut to mainland Miami Beach.	Project was completed on the CD compliance date of September 30, 2013.	N/A
4.3	Government Cut FM Phase 3	The Government Cut FM Phases 3 project is being performed in accordance with Paragraph 19(i) and Appendix D. The Government Cut FM Phase 3 (Norris Cut Utility Relocation Project) is comprised of the following; the existing 54" force main underneath Norris Cut between Fisher Island and the Central District Wastewater Treatment Plant (CDWWTP), on Virginia Key, will be replaced with a new 60" force main lowered to elevation minus (-) 67.50 feet mean sea level. A new 8" force main will be constructed from Pump Station 170, on Fisher Island, connecting to the new 60" force main near the tunnel receiving shaft. The 60" pipeline alignment will be constructed via segmental tunnel trenchless technology, and open cut trenching method. The 8" pipeline alignment will be constructed via horizontal directional drilling (HDD) trenchless methodology.	Project was completed on November 23, 2016, ahead of the CD compliance date of April 8, 2017.	N/A
4.4	North Dade 72 inch PCCP FM Rehabilitation	This North Dade Force Main Rehabilitation project is being performed in accordance with Paragraph 19(i) and Appendix D. The project replaces a damaged section of 72-inch force main that has experienced catastrophic failure. The rehabilitation involves 3.5 miles of 72 inch PCCP FM located between NW 17 Avenue and NE 10 Avenue in North Dade.	Construction was completed on May 5, 2016, ahead of the CD compliance date of March 5, 2018.	N/A
4.5	South Dade 54 inch PCCP FM Rehabilitation	This South Dade Force Main Rehabilitation project is being performed in accordance with Paragraph 19(i) and Appendix D. The project involves the rehabilitation of 2.5 miles of 54 inch PCCP FM from SW 112 Avenue and SW 280 Street to SW 107 Avenue and SW 248 Street in South Dade. It replaces sections of the 54-inch force main that has critically damaged pipe segments.	Project was completed on September 14, 2018, ahead of the CD compliance date of December 23, 2018.	N/A
4.6	Replacement of Tamiami Canal Aerial Crossing FMs at NW 37th Avenue	This Tamiami Force Main Replacement project is being performed in accordance with Paragraph 19(i) and Appendix D. This project replaces corroded twin 24 inch FM's crossing the Tamiami Canal at NW 37 Avenue, just south of NW 21 Street in the Tamiami area. The twin 24-inch force mains have experienced failures and are in need of replacement.	Construction was completed on May 27, 2014, ahead of the CD compliance date of October 29, 2016.	N/A

Table A-4.1 Wastewater Collection and Transmission Lines

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
4.7	Rehabilitation of 18 DIP FM in Miami Lakes	This Miami Lakes Force Main Replacement project is being replaced in accordance with Paragraph 19(i) and Appendix D. The purpose of this project is to replace severely corroded 18 inch pipe that has had multiple failures. It replaces one mile of 18 inch DIP FM located at NW 60 Avenue and NW 138 Street.	Construction was completed on December 7, 2015, ahead of the CD compliance date of April 9, 2017.	N/A
4.8	Rehabilitation of 54 inch PCCP FM in the City of Miami	This City of Miami Force Main Rehabilitation project is being performed pursuant to Paragraph 19(i) and Appendix D. A section of 54 inch force main in the City of Miami is deteriorated and has experienced failures. The project involves the rehabilitation of 2 miles of 54 inch PCCP FM by cured-in-place liner located on NW 2 Street between NW 67 Avenue and NW 37 Avenue in the City of Miami.	Construction of CD CIP 4.8 was completed on June 16, 2017.	N/A
4.9	Replace Approximately 30 miles of AC FM Transmission System	This Force Main Transmission System Replacement project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to replace asbestos cement force mains that have experienced failures and are difficult to locate in the field. This includes approximately 30 miles of AC FM transmission system. This project has been divided into multiple sub/child projects. See individual status of each project in Table A-4.2.	Design, permitting, procurement and construction were completed. See individual status of each project in Table A-4.2.	N/A
4.10	Opa-Locka Airport FM Replacement	The Opa-Locka Airport PCCP Force Main Replacement project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of 2.5 miles of 48 inch PCCP force main running along the Biscayne Canal between NW 57th Avenue & NW 32nd Avenue. The length has been determined to have approximately one quarter of its line segments distressed based on in-situ condition assessments. This project has been split into four (4) child/sub projects. 1) Includes rehab of an existing 48" FM east of the Opa-Locka Airport. 2) Includes two (2) miles of open cut 54" DIP FM pipe along airport.	4.10(1) Construction was completed on October 27, 2017. 4.10(2) Construction was completed on May 11, 2018.	N/A

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

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
1	12	SW 112 Ave. & SW 104 St.	SW 112 Ave. & SW 112 St.	This project was complete on June 5, 2020.	N/A
2	8	NE 14 Ave. & 191 St.	NE 14 Ave. & Miami Gardens Dr.	This project was complete on June 5, 2020.	N/A
3	6	PS 356	NW 53 Ct. & NW 195 Dr.	This project was completed on August 11, 2014.	N/A
4	8	NW 53 Ct. & NW 195 Dr.	NW 52 Ct. & NW 191 Dr.	This project was completed on August 11, 2014.	N/A
5	10	NW 52 Ct. & NW 191 St.	NW 52 Ct. & NW 188 Dr.	This project was completed on August 11, 2014.	N/A
6	6	PS 362	NW 52 Ct. & NW 190 Dr.	This project was completed on August 18, 2017.	N/A
7	10	NW 52 Ct. & NW 190 St.	NW 52 Ave. & NW 189 Ter.	This project was completed on August 18, 2017.	N/A
8	10	NW 52 Ct. & NW 188 St.	NW 52 Ave. & NW 183 St.	This project was completed on August 11, 2014.	N/A
9	8	PS 385	NW 29 Ct. & NW 199 St.	This project was completed on August 7, 2015.	N/A
10	12	NW 29 Ct. & NW 199 St.	NW 30 Pl. & NW 199 St.	This project was completed on August 7, 2015.	N/A
11	8	NW 29 Ct. & NW 199 St.	NW 28 Ave. & NW 199 St.	This project was completed on August 7, 2015.	N/A
12	6	PS 374	NW 28 Ave. & NW 199 St.	This project was completed on August 7, 2015.	N/A
13	12	NW 30 Pl. & NW 199 St.	NW 37 Ave. & NW 199 St.	This project was completed on August 7, 2015.	N/A
14	8	PS 368	NW 37 Ave. & NW 194 Ter.	This project was completed on June 3, 2015.	N/A
15	4	PS 375	NW 29 Pl. and NW 191 St.	This project was completed on June 3, 2015.	N/A
16	10	PS 427	NW 29 Pl. and NW 191 St.	This project was completed on June 3, 2015.	N/A

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

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
17	10	NW 29 Pl. and NW 191 St.	NW 32 Ave. & NW 191 St.	This project was completed on June 3, 2015.	N/A
18	6	PS 376	NW 32 Ave. & NW 191 St.	This project was completed on June 3, 2015.	N/A
19	6	PS 377	NW 36 Ave. & NW 183 St.	This project was completed on June 3, 2015.	N/A
20	8	PS 366	NW 42 Pl. & NW 199 Ter.	This project was completed on March 6, 2017.	N/A
21	10	NW 42 Pl. & NW 199 Ter.	NW 39 Ct. & NW 199 St.	This project was completed on March 6, 2017.	N/A
22	6	PS 358	PS 352	This project was completed on March 1, 2017.	N/A
23	8	PS 1022	PS 1072	This project was completed on June 15, 2018.	N/A
24	8	PS 353	NW 48 Ct. & NW 178 Ter.	This project was completed on October 27, 2016.	N/A
25	10	NW 52 Ave. & NW 173 Dr.	NW 52 Ave. & NW 178 Ter.	This project was completed on April 3, 2017.	N/A
26	6	PS 354	NW 52 Ave. & NW 173 Dr.	This project was completed on April 3, 2017.	N/A
27	4	Pvt. PS @ SW 149 Ter.	MH 14 @ PS 719	This project was complete on June 5, 2020.	N/A
28	8	PS 786	MH 5 @ PS 785	This project was complete on June 5, 2020.	N/A
29	12	PS 811	SW 107 Ave. & SW 76 St.	This project was completed on September 12, 2019.	N/A
30	12	PS 811	SW 102 Ave. & SW 81 St.	This project was completed on September 12, 2019.	N/A
31	10	PS 812	SW 102 Ave. & SW 84 St.	This project was completed on September 12, 2019.	N/A
32	12	SW 107 Ave. & SW 104 St.	SW 107 Ave. & Kendale Blvd.	This project was completed on October 13, 2017.	N/A

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

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
33	4	Pvt. PS @ 114 Ave. & SW 169 St.	MH 59 @ SW 103 Ave.	This project was completed on August 12, 2016.	N/A
34	10	PS 709	Homestead Ave. & Kumquat St.	This project was completed on April 21, 2020.	N/A
35	6	SW 110 Ave. & Banyan St.	SW 95 Ave. & SW Banyan St.	This project was completed on April 21, 2020.	N/A
36	4	PS 721	US1 & Banyan St.	This project was completed on April 21, 2020.	N/A
37	4	PS 749	PS 731	This project was completed on April 21, 2020.	N/A
38	4	PS 747	US1 & East Indigo St.	This project was completed on April 21, 2020.	N/A
39	10	SW 102 Ave. & SW 176 St.	Homestead Ave. & West Jessamine	This project was completed on April 21, 2020.	N/A
40	8	PS 745	SW 102 Ave. & SW 175 St.	This project was completed on April 21, 2020.	N/A
41	4	PS 731	SW Duval Ave. & West Indigo St.	This project was completed on April 21, 2020.	N/A
42	10	SW 102 Ave. & West Jessamine	US1 & SW 184 St.	This project was completed on April 21, 2020.	N/A
43	12	Homestead Ave. & 180 St.	Railroad St. & SW 184 St.	This project was completed on April 21, 2020.	N/A
44	8	PS 810	SW 118 Pl. & SW 72 St.	This project was complete on June 5, 2020.	N/A
45	12	PS 793	SW 118 Pl. & SW 72 St.	This project was complete on June 5, 2020.	N/A
46	6	PS 724	SW 106 Ave. & SW 155 St.	This project was complete on April 21, 2020.	N/A
47	8	PS 869	SW 122 Ave. & SW 88 St.	This project was completed on February 1, 2017.	N/A
48	10	PS 1017	SW 123 Pl. & SW 268 St.	This project was completed on September 12, 2019.	N/A
49	10	PS 1029	SW 132 Ave. & 268 St.	This project was completed on September 12, 2019.	N/A
50	8	SW 137 Ave. & SW 268 St.	SW 128 Ave. & 268 St.	This project was completed on September 12, 2019.	N/A

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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
51	10	PS 1028	SW 137 Ave. & 288 St.	This project was completed on September 12, 2019.	N/A
52	10	PS 1027	SW 132 Ave. & 280 St.	This project was completed on September 12, 2019.	N/A
53	8	PS 1018	MH 44A @ SW 132 Ave.	This project was completed on September 12, 2019.	N/A
54	12	SW 137 Ave. & SW 72 St.	SW 142 Ave. & SW 72 St.	This project was complete on June 5, 2020.	N/A
55	12	SW 142 Ave. & SW 72 St.	SW 147 Ave. & SW 72 St.	This project was complete on June 5, 2020.	N/A
56	8	PS 864	SW 147 Ave. & SW 72 St.	This project was complete on June 5, 2020.	N/A
57	8	SW 142 Ave. & Kendale Lakes Blvd.	SW 140 Ave. & Kendale Lakes Blvd.	This project was complete on June 5, 2020.	N/A
58	10	SW 140 Ave. & Kendale Lakes Blvd.	SW 137 Ave. & Kendale Lakes Blvd.	This project was complete on June 5, 2020.	N/A
59	12	SW 137 Ave. & Kendale Lakes Blvd.	SW 137 Ave. & SW 81 St.	This project was complete on June 5, 2020.	N/A
60	8	PS 1013	PS 1012	This project was completed on August 21, 2019.	N/A
61	10	PS 1012	SW 144 Ave. & SW 280 St.	This project was completed on August 21, 2019.	N/A
62	8	PS 1011	SW 144 Ct. & SW 280 St.	This project was completed on August 21, 2019.	N/A
63	10	SW 147 Ave. & SW 288 St.	SW 134 Pl. & SW 288 St.	This project was completed on September 12, 2019.	N/A
64	6	PS 1009	SW 147 Ave. & SW 296 St.	This project was complete on June 5, 2020.	N/A
65	6	PS 1006	PS 1005	This project was complete on December 12, 2019.	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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
66	8	PS 1002	SW 152 & SW 304 St.	This project was complete on June 5, 2020.	N/A

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
5.1	Upgrade of PS No. 0418	The Upgrade of PS No. 0418 project is being performed pursuant to Paragraph 19(i) and Appendix D. The station has reached the end of its useful life and a booster station is needed to relieve pressures in the Doral area. The purpose of this project is to convert PS No. 0418 into a booster type station.	Construction completion was achieved on November 8, 2019.	N/A
5.2	Decommissioning of PS No. 0691	The Upgrade of PS No. 0691 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life and capacity increase is required to handle increased Homestead flows. This project involves the replacement of pumping and electrical equipment in PS No. 0691. In February 2016, the County transmitted a request for modification to EPA and FDEP. The County requested to modify the scope of work to include completion of Homestead Pump Station No.1 and decommissioning of PS 0691 in lieu of upgrading PS No. 0691. EPA and FDEP approved the request for modification in April 2016.	PS No. 0691 was decommissioned on November 8, 2019.	N/A
5.3	Upgrade of PS No. 0692	The Upgrade of PS No. 0692 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life and capacity increase is required to handle increased Homestead flows. This project involves the replacement of pumping and electrical equipment in PS No. 0692.	The County notified EPA and FDEP on May 5, 2020 and on June 16, 2020 of Delay, Force Majeure, and Failure to Meet the Compliance Date. Construction completed November 17, 2020.	N/A
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 No. 1310 and PS No. 0300. The purpose of this project is to convert PS No. 0414 into a booster type station and rehabilitate and replace the entire facility equipment (pumps, motors, electrical equipment, HVAC, valves, and piping).	Construction was completed on June 11, 2019, ahead of the CD compliance date of June 15, 2019.	N/A
5.5	Replacement of Switchgear and Rehabilitation of Wet Well PS No. 0415	The Replacement of Switchgear and Rehabilitation of Wet Well PS No. 0415 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing pump station equipment has reached the end of its useful life and the wet well structure is badly deteriorated due to H ₂ S. This project involves the rehabilitation and replacement of the entire facility equipment (pumps, motors, electrical equipment, HVAC, odor control, valves, piping and wet well) in PS No. 0415.	Construction completion was achieved on November 13, 2019.	N/A
5.6	Replacement of Switchgear PS No. 0416	The Replacement of Switchgear PS No. 0416 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life. This project involves the replacement of electrical switchgear in PS No. 0416.	Construction was completed on June 11, 2019, ahead of the CD compliance date of June 13, 2019.	N/A
5.7	Replacement of Switchgear and Rehabilitation of Wet Well PS No. 0417	The Replacement of Switchgear and Rehabilitation of Wet Well PS No. 0417 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life and the wet well structure is badly deteriorated due to H ₂ S. This project involves the rehabilitation and replacement of the entire facility equipment (pumps, motors, electrical equipment, HVAC, odor control, valves, piping and wet well) in PS No. 0417.	Construction completed July 1, 2020.	N/A

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
5.8	Replacement of Electrical and Mechanical Equipment PS No. 0107	The Replacement of Electrical and Mechanical Equipment PS No. 0107 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment is beyond of the PS is beyond its useful life and parts are not readily available for the load cell type controllers. This project involves the replacement of pumping and electrical equipment of PS No. 0107.	Construction was completed on February 23, 2018, ahead of CD compliance date of January 27, 2019.	N/A
5.9	Replacement of Pumping and Electrical Equipment PS No. 0301	The Replacement of Pumping and Electrical Equipment PS No. 0301 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing pump station equipment has reached the end of its useful life and a new pump station is needed to address future capacity needs, sea level rise and storm surge. Phase 1 of the project involves the replacement of the pumps, electrical equipment and generators, in addition to rehabilitation of the HVAC equipment of PS No. 0301. Phase 2 will include the construction of a new submersible pump station.	Construction continued.	Construction will continue.
5.10	Upgrade of PS No. 0488	The Upgrade of PS No. 0488 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment is beyond its useful life. This project involves the conversion of the PS a submersible type station.	This project was completed on December 8, 2016, ahead of the CD compliance date of May 9, 2018.	N/A
5.11	Installation of 60 inch FM from Kendall Dr. to PS No. 0536	Currently, there is a pressure differential and increase flow transfer between PS No. 0559 and PS No. 0536. The purpose of this project was originally to install a 60 inch FM from Kendall Dr. to PS No. 0536 to eliminate the 42 inch reduction in the 60 inch FM. System reviews and analysis has determined that the installation of a 48 inch cross connection between the existing 72 inch effluent FM to an existing 48 inch force main will accomplish the desired reduction in pressure differential.	Construction was completed on February 13, 2019, ahead of CD compliance date of May 18, 2019.	N/A
5.12	Replacement of Switchgear PS No. 0187	The Replacement of Switchgear PS No. 0187 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing PS equipment is beyond its useful life and parts are not readily available. This project involves the demolition of the four (4) existing 450 hp pumps (3 two-speed, and 1 with Anvic Drive) and the installation of four (4) new 450 hp pumps and motors, with new VFDs, replacement of electrical switchgear, HVAC and lighting upgrades, expansion of Electrical Room, generator upgrades, and replacement of plug valves and control valves.	Construction was completed on March 25, 2019, ahead of the CD compliance date of March 26, 2019.	N/A
5.13	Refurbish Emergency Generators and Controls at Regional PSs	The Refurbish Emergency Generators and Controls at regional PSs project is being performed pursuant to Paragraph 19(i) and Appendix D. The emergency backup generators are unreliable due to the age of the controllers and the condition of the wiring on the engines. The purpose of this project is to refurbish emergency generators and controls at regional PSs.	Construction was completed on February 4, 2016, ahead of the CD compliance date of July 20, 2016.	N/A
5.14	Upgrade of PSs Nos. 0086 and 0492	The Upgrade of PSs 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, PS 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 PS No. 0492 were upgraded. It was also rehabilitated to a new submersible type pump station.	Construction was completed on July 15, 2013, ahead of the CD compliance date of December 31, 2013.	N/A

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) 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 No. 0198 is being upgraded to include new submersible pumps in a new triplex wet well, an electrical upgrade and flow isolation. PS No. 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 No. 0680 is being upgraded to include new submersible pumps, new valve box, electrical upgrades and a new generator with sub-base tank. This project has been divided into four (4) child projects. With the following current statuses: 1) Pump Station No. 0198 Compliance Project. The CD Compliance deadline of December 31, 2016 was not achieved. The PMCM and WASD are working with the Contractor to try and complete the remaining work. 2) Pump Station No. 0437 Upgrade. 3) Pump Station No. 0466 Compliance Project. 4) Pump Station No. 0680 Upgrade.	This project was completed on January 24, 2018.	N/A
5.17	Upgrade of PSs Nos. 0037, 0351, 0370, 0403	The Upgrade of PSs No. 0037, 0351, 0370, 0403 project is being performed pursuant to Paragraph 19(i) and Appendix D. The pump stations exceed the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. The PS No. 0037 project involves the conversion to a new submersible type pump station and an electrical upgrade. The PS No. 0351 is being upgraded to include new submersible pumps, installation of a new valve box, an electrical upgrade and the replacement of 360 L.F. of 4 inch with 8 inch FM. The PS No. 0370 project involves the conversion to a new submersible type pump station, an electrical upgrade and the installation of 760 L.F. of new 8 inch FM. The PS No. 0403 project involves the conversion to a new submersible type pump station, an electrical upgrade and the installation of an on-site generator. This project is split into four (4) different sub/child projects (one per pump station). 5.17(1) Pump Station 0037 Compliance Project 5.17(2) Pump Station No. 0351 Upgrade 5.17(3) Pump Station No. 0370 Upgrade and Installation of FM 5.17(4) Pump Station 0403 Upgrade	This project was completed on April 30, 2018, ahead of CD compliance date of November 20, 2018. 5.17(1) PS No. 0037: Construction was completed on November 14, 2017. 5.17(2) PS No. 0351: Construction was completed on December 1, 2017. 5.17(3) PS No. 0370: Construction was completed on January 11, 2018. 5.17(4) PS No. 0403: Construction was completed on April 30, 2018.	N/A

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
5.18	Upgrade of PSs Nos. 0441, 0491, 0710, 0827, 0852, 1236	<p>The Upgrade of PSs No. 0441, 0491, 0710, 0827, 0852, 1236 project is being performed pursuant to Paragraph 19(i) and Appendix D. The pump stations exceed the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. The PS No. 0441 project involves the conversion to a new submersible type pump station and an electrical upgrade. PS No. 0491 is undergoing flow isolation and I/I repairs if necessary. The PS No. 710 project involves the conversion to a new submersible type pump station, an electrical upgrade and the installation of 1,800 L.F. of new 8 inch FM. The PS No. 0827 is being upgraded to include larger submersible pumps, installation of a new valve vault, an electrical upgrade and the replacement of 1,600 L.F. of 4 inch FM with 8 inch FM. The PS No. 0852 project involves the conversion to a new submersible type pump station and an electrical upgrade. PS No. 1236 is undergoing 300 I/I repairs to achieve a flow of 130 gpm. This project is split into six (6) different sub/child projects.</p> <ol style="list-style-type: none"> 1) Pump Station 0441 Upgrade 2) Pump Station 0491 Compliance Project 3) Pump Station 0710 Compliance Project 4) Pump Station 0827 Compliance Project 5) Pump Station 0852 Compliance Project 6) Pump Station 1236 Compliance Project – Consent Decree requirements for this project were accomplished and received EPA certification for Substantial Completion. PS#1236 has maintenance issues and will be resolved under phase 2 for which CD deadlines are not applicable. 	<p>5.18(1) Construction was completed on August 14, 2019. 5.18(2) Construction was completed on November 15, 2019. 5.18(3) Construction was completed on August 14, 2019. 5.18(4) Construction was completed on November 18, 2019. 5.18(5) Construction was completed on July 26, 2019. 5.18(6) Construction was completed on May 1, 2017.</p>	N/A
5.19	SCADA RTU Upgrades	<p>The SCADA RTU Upgrades project is being performed pursuant to Paragraph 19(i) and Appendix D. The current radio communication system is obsolete and it is difficult to procure parts. The purpose of the project is to upgrade the SCADA remote telemetry units for 635 pump stations to maintain operational sustainability.</p>	<p>Construction was completed on November 23, 2015 ahead of the CD compliance date March 18, 2016.</p>	N/A

Appendix B Project Schedules Gantt Chart

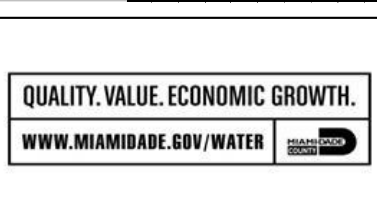
EPA Interim Milestone ID	Activity Name	Actual/Forecast Start	EPA Interim Milestone Start Date	Actual/Forecast Finish	EPA Interim Milestone Finish Date	17	2018				2019				2020				2021				2022				2023				2024				2025				2026			
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	
WASD Consent Decree Schedule - June 2021 Update																																										
1. South District WWTP																																										
1.01 Headworks																																										
1.1.1	Engineering Design - SD Headworks	02-Feb-15 A	01-Oct-15	27-Feb-15 A	26-Apr-16																																					
1.1.2	Permitting - SD Headworks	02-Feb-15 A	27-Apr-16	27-Feb-15 A	26-Apr-17																																					
1.1.3	Procurement - SD Headworks	02-Feb-15 A	27-Apr-17	15-Oct-19 A	26-Apr-18																																					
1.1.4	Construction - SD Headworks	14-Aug-09 A	27-Apr-18	06-Nov-19 A	23-Feb-20																																					
1.02 Oxygen Production																																										
1.2.1	Engineering Design - SD Oxygen Production	03-Apr-15 A	01-Jan-15	07-Feb-16 A	29-May-16																																					
1.2.2	Permitting - SD Oxygen Production	08-Feb-16 A	30-May-16	11-Apr-17 A	19-May-17																																					
1.2.3	Procurement - SD Oxygen Production	28-Nov-16 A	26-Nov-16	26-Oct-18 A	30-Sep-17																																					
1.2.4	Construction (Consent Decree) - SD Oxygen Production	07-Jan-19 A	01-Oct-17	06-May-22	25-Feb-22																																					
1.03 Oxygenation Trains																																										
1.3.1	Engineering Design - SD Oxygenation Trains	15-Feb-17 A	31-Mar-17	09-Dec-19 A	30-Sep-19																																					
1.3.2	Permitting - SD Oxygenation Trains	07-Nov-19 A	01-Oct-19	30-Aug-21	31-Mar-20																																					
1.3.3	Procurement - SD Oxygenation Trains	21-Mar-17 A	18-Jul-18	28-Jan-22	17-Jul-19																																					
1.03 (1) - Oxygenation Trains Structural Rehab																																										
1.3.10	Construction Train 7 - SD Oxygenation Trains Struct. Rehab	02-Oct-13 A	17-Jul-25	24-Mar-14 A	16-Nov-25																																					
1.3.4	Construction Train 4 - SD Oxygenation Trains Struct. Rehab	16-Dec-19 A	16-Jul-21	31-Jul-20 A	16-Nov-21																																					
1.3.5	Construction Train 6 - SD Oxygenation Trains Struct. Rehab	23-Jan-18 A	17-Jul-20	30-May-18 A	16-Nov-20																																					
1.3.6	Construction Train 5 - SD Oxygenation Trains Struct. Rehab	17-Mar-17 A	18-Jul-19	01-Jun-17 A	17-Nov-19																																					
1.3.9	Construction Train 1 - SD Oxygenation Trains Struct. Rehab	02-Feb-15 A	17-Jul-24	08-Jan-16 A	17-Nov-24																																					
1.04 Chlorine Building																																										
1.4.1	Engineering Design - SD Chlorine Building	17-Jul-18 A	01-Dec-18	29-Aug-19 A	10-Apr-19																																					
1.4.2	Permitting - SD Chlorine Building	30-Aug-19 A	11-Apr-19	28-Jul-20 A	09-Apr-20																																					
1.4.3	Procurement - SD Chlorine Building	06-Mar-20 A	10-Apr-20	23-Dec-20 A	09-Apr-21																																					
1.4.4	Construction - SD Chlorine Building	23-Dec-20 A	10-Apr-21	26-Jan-22	07-Aug-23																																					
1.05 Effluent Pump Station																																										
1.5.1	Engineering Design - SD Effluent Pump Station	19-Nov-13 A	01-Sep-16	27-Jul-18 A	17-May-18																																					
1.5.2	Permitting - SD Effluent Pump Station	19-Nov-13 A	18-May-18	14-Dec-18 A	17-Nov-18																																					
1.5.3	Procurement - SD Effluent Pump Station	18-Feb-14 A	18-Nov-18	31-Oct-19 A	13-Aug-19																																					
1.5.4	Construction - SD Effluent Pump Station	20-May-14 A	14-Aug-19	30-Jan-22	07-Apr-22																																					
1.06 Gravity Sludge Thickeners																																										
1.6.1	Engineering Design - SD Gravity Sludge Thickeners	03-Jul-14 A	01-Jan-18	29-Mar-16 A	18-Aug-18																																					
1.6.2	Procurement - SD Gravity Sludge Thickeners - SD Gravity Sludge Thickeners	29-Mar-16 A	19-Aug-19	03-Jul-20 A	17-Aug-20																																					
1.6.3	Design-Builder Contract Duration - SD Gravity Sludge Thickeners	06-Jul-20 A	18-Aug-20	31-Dec-22	06-Jan-23																																					
1.07 Digesters and Control Building																																										
1.7.1	Engineering Design - SD Digesters & Control Building	30-Jun-14 A	03-Jul-14	01-Sep-16 A	30-Sep-16																																					
1.7.2	Permitting - SD Digesters & Control Building	26-Oct-15 A	27-Jul-14	16-May-17 A	30-Jun-17																																					
1.7.3	Procurement - SD Digesters & Control Building	19-Oct-17 A	01-Sep-17	08-Aug-18 A	30-Apr-18																																					
1.7.4	Construction - SD Digesters & Control Building	08-Aug-18 A	01-May-18	12-Jul-23	21-Nov-23																																					
1.08 Dewatering Facility																																										
1.8.1	Engineering Design (DCP) - SD Dewatering Facilities	13-Apr-15 A	01-Jul-14	29-Mar-16 A	13-Apr-15																																					

■ Remaining Project Phase Summary ■ Critical Re...
▽ Compliance Dates ◆ Milestone
■ Actual Project Phase Summary
■ Actual Work
■ Remaining Work

MIAMI-DADE WATER & SEWER DEPARTMENT

CONSENT DECREE PROGRAM SCHEDULE

CURRENT VS APPROVED EPA DATES

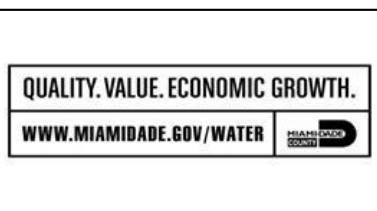


Date	Revision	Checked	Approved
14-Jul-14	Revision 0	GSR	DH
15-Apr-21	Mar 2021 Update		
14-May-21	Apr 2021 Update		
17-Jun-21	May 2021 Update		
16-Jul-21	June 2021 Update		

EPA Interim Milestone ID	Activity Name	Actual/Forecast Start	EPA Interim Milestone Start Date	Actual/Forecast Finish	EPA Interim Milestone Finish Date	Timeline (2017-2026)																																															
						2017	2018	2019	2020	2021	2022	2023	2024	2025	2026																																						
1.8.2	Procurement - SD Dewatering Facilities	29-Mar-16 A	13-Apr-16	03-Jul-20 A	09-Jan-18	[Gantt bar: 29-Mar-16 to 09-Jan-18]																																															
1.8.3	Design-Builder Contract Duration - SD Dewatering Facilities	06-Jul-20 A	10-Jan-18	31-Dec-22	06-Jan-23	[Gantt bar: 06-Jul-20 to 06-Jan-23]																																															
1.09 FOG Removal Facility																																																					
1.9.1	Engineering Design - SD FOG Removal Facility	08-Jul-14 A	08-Jul-14	21-Jan-16 A	16-Feb-16	[Gantt bar: 08-Jul-14 to 16-Feb-16]																																															
1.9.2	Permitting - SD FOG Removal Facility	10-Nov-15 A	17-Feb-16	14-Sep-16 A	28-Oct-16	[Gantt bar: 10-Nov-15 to 28-Oct-16]																																															
1.9.3	Procurement - SD FOG Removal Facility	05-Aug-16 A	03-May-15	29-Jun-17 A	15-May-17	[Gantt bar: 05-Aug-16 to 15-May-17]																																															
1.9.4	Construction - SD FOG Removal Facility	30-Jun-17 A	31-Jul-17	26-Mar-19 A	24-May-19	[Gantt bar: 30-Jun-17 to 24-May-19]																																															
1.10 Odor Control																																																					
1.10.1	Engineering Design - SD Odor Control	14-Sep-18 A	01-Dec-18	08-Nov-19 A	27-Jun-19	[Gantt bar: 14-Sep-18 to 27-Jun-19]																																															
1.10.2	Permitting - SD Odor Control	21-Nov-19 A	28-Jun-19	07-Jul-20 A	26-Jun-20	[Gantt bar: 21-Nov-19 to 26-Jun-20]																																															
1.10.2	FDEP Permit - SD Odor Control	20-Feb-19 A	28-Jun-19	06-Sep-19 A	26-Jun-20	[Gantt bar: 20-Feb-19 to 26-Jun-20]																																															
1.10.3	Procurement - SD Odor Control	02-Mar-20 A	27-Jun-20	21-Mar-21 A	26-Jun-21	[Gantt bar: 02-Mar-20 to 26-Jun-21]																																															
1.10.4	Construction - SD Odor Control	22-Mar-21 A	27-Jun-21	08-Oct-22	25-Apr-23	[Gantt bar: 22-Mar-21 to 25-Apr-23]																																															
1.11 General Electrical																																																					
1.11.1	Engineering Design (Summary) - SD General Electrical	25-Oct-16 A	31-Dec-16	14-Feb-19 A	31-Dec-17	[Gantt bar: 25-Oct-16 to 31-Dec-17]																																															
1.11.2	Permitting (Summary) - SD General Electrical	07-May-18 A	30-Jun-17	25-May-19 A	28-May-18	[Gantt bar: 07-May-18 to 28-May-18]																																															
1.11.3	Procurement (Summary) - SD General Electrical	24-Aug-18 A	29-May-18	24-Dec-20 A	28-May-19	[Gantt bar: 24-Aug-18 to 28-May-19]																																															
1.11.4	Construction (Summary) - SD General Electrical	03-Oct-19 A	29-May-19	14-Sep-22	26-Mar-21	[Gantt bar: 03-Oct-19 to 26-Mar-21]																																															
1.12 Chlorine Contact Chamber																																																					
1.12.1	Engineering Design - SD Chlorine Contact Chamber	01-Oct-15 A	01-Aug-16	18-Jul-17 A	30-Sep-19	[Gantt bar: 01-Oct-15 to 30-Sep-19]																																															
1.12.2	Permitting - SD Chlorine Contact Chamber	01-Oct-15 A	09-Apr-17	30-Oct-15 A	08-Apr-18	[Gantt bar: 01-Oct-15 to 08-Apr-18]																																															
1.12.3	Procurement - SD Chlorine Contact Chamber	24-Aug-15 A	09-Apr-18	29-Nov-20 A	08-Apr-19	[Gantt bar: 24-Aug-15 to 08-Apr-19]																																															
1.12.4	Construction - SD Chlorine Contact Chamber Struct. Rehab	05-Jan-16 A	09-Apr-19	05-Apr-21 A	18-Jun-21	[Gantt bar: 05-Jan-16 to 18-Jun-21]																																															
2. Central District WWTP																																																					
2.01 Miscellaneous Electrical Improvements																																																					
2.1.1	Engineering Design - CD Misc. Elect. Improvements	11-Jun-14 A	01-Jan-17	02-May-19 A	31-Dec-17	[Gantt bar: 11-Jun-14 to 31-Dec-17]																																															
2.1.2	Permitting - CD Misc. Elect. Improvements	18-Dec-15 A	21-Jun-17	30-Nov-19 A	20-Jun-18	[Gantt bar: 18-Dec-15 to 20-Jun-18]																																															
2.1.3	Procurement - CD Misc. Elect. Improvements	24-Jul-15 A	21-Jun-18	10-May-20 A	20-Jun-19	[Gantt bar: 24-Jul-15 to 20-Jun-19]																																															
2.1.4	Construction - CD Misc. Elect. Improvements	29-Jan-16 A	21-Jun-19	13-Jan-22	14-Jun-21	[Gantt bar: 29-Jan-16 to 14-Jun-21]																																															
2.02 Building Improvements																																																					
2.2.1	Engineering Design - CD Repairs to Various Buildings	26-Mar-14 A	01-May-14	05-May-16 A	18-Oct-14	[Gantt bar: 26-Mar-14 to 18-Oct-14]																																															
2.2.2	Permitting - CD Repairs to Various Buildings	13-Oct-14 A	19-Oct-14	23-Jun-16 A	27-Aug-16	[Gantt bar: 13-Oct-14 to 27-Aug-16]																																															
2.2.3	Procurement - CD Repairs to Various Buildings	03-Jun-14 A	19-Oct-15	05-Jan-17 A	31-Jan-17	[Gantt bar: 03-Jun-14 to 31-Jan-17]																																															
2.2.4	Construction - CD Repairs to Various Buildings	16-Oct-14 A	18-Oct-16	17-Jan-20 A	26-Sep-19	[Gantt bar: 16-Oct-14 to 26-Sep-19]																																															
2.03 Headworks/Grit Basin Plant 1																																																					
2.3.1	Engineering Design - CD Headworks/Grit Basin Plant 1	24-Nov-14 A	01-Sep-14	28-Jan-16 A	05-Jan-16	[Gantt bar: 24-Nov-14 to 05-Jan-16]																																															
2.3.2	Permitting - CD Headworks/Grit Basin Plant 1	28-Jan-16 A	04-Aug-14	05-Aug-16 A	01-Jun-16	[Gantt bar: 28-Jan-16 to 01-Jun-16]																																															
2.3.3	Procurement - CD Headworks/Grit Basin Plant 1	07-Mar-16 A	06-Jan-16	29-Aug-16 A	16-Oct-16	[Gantt bar: 07-Mar-16 to 16-Oct-16]																																															
2.3.4	Construction - CD Headworks/Grit Basin Plant 1	30-Aug-16 A	17-Oct-16	07-Mar-19 A	16-Mar-19	[Gantt bar: 30-Aug-16 to 16-Mar-19]																																															
2.04 Headworks/Grit Basin Plant 2																																																					
2.4.1	Engineering Design - CD Headworks/Grit Basin Plant 2	24-Nov-14 A	01-Sep-14	28-Jan-16 A	19-Feb-16	[Gantt bar: 24-Nov-14 to 19-Feb-16]																																															
2.4.2	Permitting - CD Headworks/Grit Basin Plant 2	29-Jan-16 A	04-Mar-15	05-Aug-16 A	18-Jun-16	[Gantt bar: 29-Jan-16 to 18-Jun-16]																																															
2.4.3	Procurement - CD Headworks/Grit Basin Plant 2	07-Mar-16 A	03-Mar-16	29-Aug-16 A	02-Mar-17	[Gantt bar: 07-Mar-16 to 02-Mar-17]																																															

█ Remaining Project Phase Summary █ Critical Re...
▽ Compliance Dates ◆ Milestone
█ Actual Project Phase Summary
█ Actual Work
█ Remaining Work

MIAMI-DADE WATER & SEWER DEPARTMENT CONSENT DECREE PROGRAM SCHEDULE CURRENT VS APPROVED EPA DATES



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						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
2.4.4	Construction - CD Headworks/Grit Basin Plant 2	08-Dec-15 A	03-Mar-17	13-Aug-19 A	23-Aug-19																			
2.05 Oxygenation Trains Plant 1																								
2.5.1	Engineering Design - CD Oxygenation Trains Plant 1	01-Mar-11 A	01-Jun-14	12-Aug-17 A	02-Sep-14																			
2.5.2	Permitting - CD Oxygenation Trains Plant 1	01-Mar-11 A	03-Sep-14	02-May-11 A	02-Sep-15																			
2.5.3	Procurement - CD Oxygenation Trains Plant 1	03-May-11 A	03-Sep-15	13-Feb-18 A	14-Dec-17																			
2.5.4	Structural Rehab Train #2 - CD Oxygenation Trains Plant 1	15-Jan-17 A	14-Dec-16	14-Apr-17 A	15-Jun-17																			
2.5.5	Structural Rehab Train #3 - CD Oxygenation Trains Plant 1	13-Feb-18 A	15-Dec-17	22-Jun-18 A	12-Apr-19																			
2.06 Oxygenation Trains Plant 2																								
2.6.1	Engineering Design - CD Oxygenation Trains Plant 2	01-Mar-11 A	01-Jun-16	02-May-11 A	02-Sep-16																			
2.6.2	Permitting - CD Oxygenation Trains Plant 2	01-Mar-11 A	03-Sep-16	02-May-11 A	02-Sep-17																			
2.6.3	Procurement - CD Oxygenation Trains Plant 2	02-May-11 A	03-Sep-17	01-Nov-20 A	16-Nov-18																			
2.6.4	Structural Rehab Train #1 - CD Oxygenation Trains Plant 2	17-Jan-17 A	16-Dec-18	09-May-17 A	18-Mar-19																			
2.6.5	Structural Rehab Train #2 - CD Oxygenation Trains Plant 2	07-Oct-19 A	16-Dec-19	20-Aug-20 A	14-Apr-20																			
2.6.6	Structural Rehab Train #3 - CD Oxygenation Trains Plant 2	09-Nov-15 A	15-Dec-20	29-Feb-16 A	15-Apr-21																			
2.6.7	Structural Rehab Train #4 - CD Oxygenation Trains Plant 2	02-Nov-20 A	16-Dec-21	16-Sep-21	14-Apr-22																			
2.07 Secondary Clarifiers Plant 1																								
2.7.1	Engineering Design - CD Secondary Clarifiers Plant 1	12-Apr-18 A	01-Apr-21	03-Jan-20 A	05-Oct-21																			
2.7.2	Permitting - CD Secondary Clarifiers Plant 1	04-Jan-20 A	06-Oct-21	01-Apr-20 A	05-Oct-22																			
2.7.3	Procurement - CD Secondary Clarifiers Plant 1	17-Jul-15 A	06-Oct-22	30-Dec-24	05-Oct-23																			
2.7.4	Construction - CD Secondary Clarifiers Plant 1	11-Jul-15 A	06-Oct-23	12-Jun-26	15-Aug-26																			
2.08 Secondary Clarifiers Plant 2																								
2.8.1	Engineering Design - CD Secondary Clarifiers Plant 2	16-Mar-16 A	01-Jun-16	01-Feb-17 A	31-Oct-21																			
2.8.2	Permitting - CD Secondary Clarifiers Plant 2	28-Jul-16 A	06-Dec-16	22-May-18 A	05-Dec-17																			
2.8.3	Procurement - CD Secondary Clarifiers Plant 2	27-Nov-17 A	06-Dec-17	22-Sep-23	05-Dec-18																			
2.8.4	Construction - CD Secondary Clarifiers Plant 2	21-Nov-18 A	06-Dec-18	03-Jun-24	01-Dec-24																			
2.09 Return Sludge PS Plant 1																								
2.9.1	Engineering Design - CD Return Sludge PS Plant 1	30-Jul-18 A	01-Apr-21	03-Jan-20 A	05-Oct-21																			
2.9.2	Permitting - CD Return Sludge PS Plant 1	04-Jan-20 A	06-Oct-21	01-Apr-20 A	05-Oct-22																			
2.9.2	FDEP Permit - CD Return Sludge PS Plant 1	18-Apr-19 A	06-Oct-21	23-Aug-19 A	05-Oct-22																			
2.9.3	Procurement - CD Return Sludge PS Plant 1	12-Dec-22	06-Oct-22	07-Sep-23	05-Oct-23																			
2.9.4	Construction PS #2 - CD Return Sludge PS Plant 1	04-Jun-24	06-Oct-23	29-Jan-25	17-Sep-24																			
2.9.5	Construction PS #3 - CD Return Sludge PS Plant 1	14-Feb-25	18-Sep-24	11-Oct-25	31-Aug-25																			
2.9.6	Construction PS #1 - CD Return Sludge PS Plant 1	16-Oct-25	01-Sep-25	12-Jun-26	15-Aug-26																			
2.10 Return Sludge PS Plant 2																								
2.10.1	Engineering Design - CD Return Sludge PS Plant 2	13-Jan-16 A	01-Jun-16	01-Feb-17 A	31-Mar-17																			
2.10.2	Permitting - CD Return Sludge PS Plant 2	22-Mar-16 A	06-Dec-16	22-May-18 A	05-Dec-17																			
2.10.3	Procurement - CD Return Sludge PS Plant 2	14-Apr-16 A	06-Dec-17	29-Nov-18 A	05-Dec-18																			
2.10.4	Construction - CD Return Sludge PS Plant 2	22-Apr-16 A	06-Dec-18	11-Sep-23	01-Dec-24																			
2.11 Effluent Pump Station																								
2.11.1	Engineering Design - CD Effluent Pump Station	24-Aug-16 A	01-Jan-17	16-Jun-17 A	18-Aug-17																			
2.11.2	Permitting - CD Effluent Pump Station	22-Jun-17 A	19-Aug-17	27-Feb-18 A	20-Jun-18																			
2.11.3	Procurement - CD Effluent Pump Station	07-Mar-18 A	21-Jun-18	04-Aug-19 A	20-Jun-19																			
2.11.4	Construction - CD Effluent Pump Station	05-Aug-19 A	21-Jun-19	01-Jul-21	21-Jun-21																			

■ Remaining Project Phase Summary ■ Critical Re...
▽ Compliance Dates ◆ Milestone
■ Actual Project Phase Summary
■ Actual Work
■ Remaining Work

MIAMI-DADE WATER & SEWER DEPARTMENT CONSENT DECREE PROGRAM SCHEDULE CURRENT VS APPROVED EPA DATES

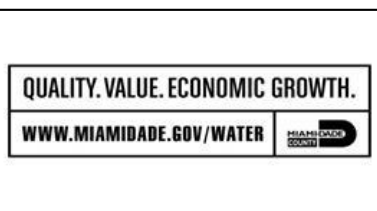


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						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
2.12 Gravity Sludge Thickeners Plant 1																								
2.12.1	Engineering Design - CD Gravity Sludge Thickeners Plant 1	16-Jun-15 A	01-Apr-17	29-Mar-16 A	05-Oct-17	▽	05-Oct-17																	
2.12.2	Procurement - CD Gravity Sludge Thickeners Plant 1	29-Mar-16 A	06-Oct-18	03-Jul-20 A	05-Oct-19								05-Oct-19											
2.12.3	Design-Builder Contract Duration - CD Gravity Sludge Thickeners Plant 1	06-Jul-20 A	06-Oct-19	26-Feb-23	13-Jan-23																			
2.13 Gravity Sludge Thickeners Plant 2																								
2.13.1	Engineering Design - CD Gravity Sludge Thickeners Plant 2	11-Jun-14 A	01-Oct-15	29-Mar-16 A	22-Jul-16																			
2.13.2	Procurement - CD Gravity Sludge Thickeners Plant 2	29-Mar-16 A	06-Apr-17	03-Jul-20 A	05-Apr-18								05-Apr-18											
2.13.3	Design-Builder Contract Duration - CD Gravity Sludge Thickeners Plant 2	06-Jul-20 A	06-Apr-18	26-Feb-23	13-Jan-23																			
2.14 Digesters Plant 1																								
2.14.1 Cluster 1																								
2.14.1.1	Engineering Design - CD Digesters Plant 1 Cluster 1	27-Jul-21	01-May-20	25-Feb-22	04-Nov-20								▽											
2.14.1.2	Permitting - CD Digesters Plant 1 Cluster 1	26-Feb-22	05-Nov-20	26-Apr-22	04-Nov-21																			
2.14.1.3	Procurement - CD Digesters Plant 1 Cluster 1	29-Apr-22	05-Nov-21	24-Dec-22	04-Nov-22																			
2.14.1.4	Construction - CD Digesters Plant 1 Cluster 1	25-Dec-22	05-Nov-22	07-Aug-24	18-Jun-24																			
2.14.2 Cluster 2																								
2.14.2.1	Engineering Design - CD Digesters Plant 1 Cluster 2	28-Jul-21	01-Dec-21	28-Mar-22	06-Jun-22																			
2.14.2.2	Permitting - CD Digesters Plant 1 Cluster 2	29-Mar-22	07-Jun-22	24-Jun-22	06-Jun-23																			
2.14.2.3	Procurement - CD Digesters Plant 1 Cluster 2	28-Jun-22	07-Jun-23	24-Mar-23	05-Jun-24																			
2.14.2.4	Construction - CD Digesters Plant 1 Cluster 2	25-Mar-23	06-Jun-24	06-Nov-24	19-Jan-26																			
2.15 Digesters Plant 2																								
2.15.1 Cluster 1																								
2.15.1.1	Engineering Design - CD Digesters Plant 2 Cluster 1	11-Jun-14 A	11-Jun-14	29-Sep-15 A	29-Oct-15																			
2.15.1.2	Permitting - CD Digesters Plant 2 Cluster 1	30-Sep-15 A	30-Sep-15	24-Aug-16 A	27-Mar-16																			
2.15.1.3	Procurement - CD Digesters Plant 2 Cluster 1	27-Apr-16 A	28-Mar-16	24-Oct-16 A	31-Dec-16																			
2.15.1.4	Construction - CD Digesters Plant 2 Cluster 1	23-Mar-15 A	24-Sep-16	10-Sep-21	18-Jun-23																			
2.15.2 Cluster 2																								
2.15.2.1	Engineering Design - CD Digesters Plant 2 Cluster 2	04-May-15 A	10-Jan-18	23-Aug-16 A	07-Dec-18																			
2.15.2.2	Permitting - CD Digesters Plant 2 Cluster 2	24-Aug-16 A	08-Dec-18	28-Jul-17 A	07-Dec-19																			
2.15.2.3	Procurement - CD Digesters Plant 2 Cluster 2	25-Jul-17 A	08-Dec-19	09-Jul-18 A	06-Dec-20																			
2.15.2.4	Construction - CD Digesters Plant 2 Cluster 2	10-Jul-18 A	07-Dec-20	20-Feb-22	18-Jun-23																			
2.15.3 Cluster 3																								
2.15.3.1	Engineering Design - CD Digesters Plant 2 Cluster 3	09-Aug-17 A	10-Jan-18	14-Mar-18 A	07-Dec-18																			
2.15.3.2	Permitting - CD Digesters Plant 2 Cluster 3	14-Mar-18 A	08-Dec-18	01-Apr-19 A	07-Dec-19																			
2.15.3.3	Procurement - CD Digesters Plant 2 Cluster 3	31-Jan-19 A	08-Dec-19	10-Feb-22	06-Dec-20																			
2.15.3.4	Construction - CD Digesters Plant 2 Cluster 3	21-Feb-22	07-Dec-20	14-Aug-23	18-Jun-23																			
2.16 Dewatering Building																								
2.16.1	Engineering Design - CD Dewatering Building	30-Apr-15 A	01-Jun-16	29-Mar-16 A	01-Aug-17																			
2.16.2	Procurement - CD Dewatering Building	29-Mar-16 A	02-Aug-18	03-Jul-20 A	01-Aug-19																			
2.16.3	Design-Builder Contract Duration - CD Dewatering Building	06-Jul-20 A	02-Aug-19	26-Feb-23	13-Jan-23																			
2.17 Chlorination Facilities																								
2.17.1	Engineering Design - CD Chlorination Facilities	01-Oct-13 A	01-Oct-13	16-Nov-15 A	07-Sep-14																			
2.17.2	Permitting - CD Chlorination Facilities	20-Nov-15 A	08-Sep-14	27-Jun-16 A	30-Jul-16																			
2.17.3	Procurement - CD Chlorination Facilities	16-Nov-15 A	08-Feb-16	29-Mar-16 A	06-Sep-16																			
2.17.4	Construction - CD Chlorination Facilities	18-Apr-16 A	07-Sep-16	27-Jul-18 A	15-Oct-18																			

■ Remaining Project Phase Summary ■ Critical Re...
▽ Compliance Dates ◆ Milestone
■ Actual Project Phase Summary
■ Actual Work
■ Remaining Work

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						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
2.18 Odor Control Systems																																	
2.18.1	Engineering Design - CD Odor Control Systems	06-Oct-14 A	01-Oct-16	29-Mar-16 A	17-Jun-17	17-Jun-17																											
2.18.2	Permitting (Summary) - CD Odor Control Systems	29-Jan-16 A	18-Jun-17	05-Aug-16 A	17-Jun-18	▽ 17-Jun-18																											
2.18.3	Procurement (Summary) - CD Odor Control Systems - CD Odor Control Systems	07-Mar-16 A	18-Jun-18	03-Jul-20 A	17-Jun-19	17-Jun-19																											
2.18.4	Construction (Summary) - CD Odor Control Systems	30-Aug-16 A	18-Jun-19	26-Feb-23	13-Jan-23	13-Jan-23																											
2.19 Co-Gen Improvements																																	
2.19.1	Engineering Design - CD Co-Gen Improvements	22-Nov-12 A	01-May-14	31-Oct-16 A	14-Nov-16	v-16																											
2.19.2	Permitting - CD Co-Gen Improvements	12-Mar-13 A	18-Aug-15	04-Aug-17 A	29-Sep-17	▽ 29-Sep-17																											
2.19.3	Procurement - CD Co-Gen Improvements	12-Mar-14 A	17-Aug-16	29-Nov-18 A	30-Mar-18	30-Mar-18																											
2.19.4	Construction - CD Co-Gen Improvements	30-Jul-14 A	17-Aug-17	18-May-20 A	21-May-20	▽ 21-May-20																											
2.19.5	Substantial Completion (CD Compliance Date 5/21/20) - CD Co-Gen Improvements			09-Nov-21*	21-May-20	◆ Substantial Completion (CD Compliance Date 5/21/20)																											
2.21 Pump Station No.1																																	
2.21.1	Engineering Design - CD Pump Station No. 1	13-Aug-15 A	01-Oct-16	11-May-17 A	30-Jun-17	30-Jun-17																											
2.21.2	Permitting - CD Pump Station No. 1	15-May-17 A	01-Jul-17	08-Jan-18 A	05-Feb-18	05-Feb-18																											
2.21.3	Procurement - CD Pump Station No. 1	08-Dec-17 A	06-Feb-18	10-Jun-18 A	05-Feb-19	▽ 05-Feb-19																											
2.21.4	Construction - CD Pump Station No. 1	07-Sep-16 A	06-Feb-19	19-Dec-19 A	26-Feb-21	▽ 26-Feb-21																											
2.22 Pump Station No.2																																	
2.22.1	Engineering Design - CD Pump Station No. 2	13-Apr-15 A	01-Oct-14	13-Apr-16 A	05-Feb-15																												
2.22.2	Permitting - CD Pump Station No. 2	13-Apr-16 A	06-Feb-15	02-Dec-16 A	15-Dec-16	ec-16																											
2.22.3	Procurement - CD Pump Station No. 2	15-Jul-16 A	29-Jul-16	23-Jan-17 A	04-Feb-17	Feb-17																											
2.22.4	Construction - CD Pump Station No. 2	24-Jan-17 A	05-Feb-17	01-Oct-21	25-May-19	▽ 25-May-19																											
2.23 O2 Plant Process Controls Phase 2																																	
2.23.1	Engineering Design - CD O2 Plant Process Controls Phase 2	01-Oct-13 A	01-Oct-13	20-Dec-13 A	02-Feb-14																												
2.23.2	Permitting - CD O2 Plant Process Controls Phase 2	01-Oct-13 A	03-Feb-14	20-Dec-13 A	02-Feb-15																												
2.23.3	Procurement - CD O2 Plant Process Controls Phase 2	03-Jun-14 A	03-Feb-15	13-Apr-15 A	02-Feb-16																												
2.23.4	Construction - CD O2 Plant Process Controls Phase 2	20-Apr-15 A	03-Feb-16	25-Apr-16 A	09-Mar-17	9-Mar-17																											
2.24 Gas Monitoring and Alarms																																	
2.24.1	Engineering Design - CD Gas Monitoring and Alarms	13-Apr-15 A	01-Jan-15	11-Aug-15 A	04-Mar-15																												
2.24.4	Construction - CD Gas Monitoring and Alarms	12-Oct-16 A	04-Mar-17	29-Sep-17 A	19-Sep-17	▽ 19-Sep-17																											
2.25 Ventilation Improvements																																	
2.25.1	Engineering Design - CD Ventilation Improvements	11-Jun-14 A	01-Jan-21	11-May-17 A	07-Jul-21	▽ 07-Jul-21																											
2.25.2	Permitting - CD Ventilation Improvements	30-Sep-15 A	08-Jul-21	08-Jan-18 A	07-Jul-22	▽ 07-Jul-22																											
2.25.3	Procurement - CD Ventilation Improvements	07-Mar-16 A	08-Jul-22	10-Jun-18 A	07-Jul-23	▽ 07-Jul-23																											
2.25.4	Construction - CD Ventilation Improvements	30-Aug-16 A	08-Jul-23	01-Oct-21	27-Feb-25	▽ 27-Feb-25																											
2.26 Rehabilitation of Walkways and Stairways																																	
2.26.1	Construction - CD Rehab of Walkways & Stairways (by WASD)	01-Oct-13 A	01-Oct-13	27-Mar-27	27-Sep-27																												
2.27 Oxygen Production																																	
2.27.1	Engineering Design - CD Oxygen Production	13-Apr-15 A	01-Jan-15	21-Jun-17 A	15-Jul-17	15-Jul-17																											
2.27.2	Procurement (Summary) - CD Oxygen Production & Site Preparation	05-Jun-17 A	16-Jul-17	28-Dec-18 A	15-Jul-18	15-Jul-18																											
2.27.3	Construction (Summary) - CD Oxygen Production & Site Preparation	29-Mar-19 A	16-Jul-18	10-Oct-21	13-Feb-22	▽ 13-Feb-22																											
2.28 SCADA RTU Upgrades																																	
2.28.1	Construction - CD SCADA RTU Upgrades	01-Oct-13 A	01-Oct-13	10-Feb-14 A	29-Mar-14																												
2.29 High Strength Influent Impact Study																																	

■ Remaining Project Phase Summary ■ Critical Re...
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						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
2.29.1	Engineering Study - CD High Strength Influent Study Impact	12-Feb-13 A	12-Feb-13	29-May-14 A	24-Jun-14																							
3. North District WWTP																												
3.01 Headworks and Sludge Degritting & Transfer																												
3.1.1	Engineering Design - ND Headworks & Sludge Degritting	20-Mar-13 A	20-Mar-13	11-Jul-14 A	19-Sep-14																							
3.1.2	Permitting - ND Headworks & Sludge Degritting	11-Jun-14 A	11-Jul-14	30-Sep-15 A	05-Sep-15																							
3.1.3	Procurement - ND Headworks & Sludge Degritting	08-Apr-15 A	01-Oct-14	01-Nov-15 A	03-Dec-15																							
3.1.4	Construction Phase 1: Screens - ND Headworks & Sludge Degritting	02-Nov-15 A	23-Dec-15	30-May-17 A	07-Apr-18																							
3.1.5	Construction Phase 2: Building Improvements - ND Headworks & Sludge Degritting	02-Nov-15 A	04-Dec-15	06-Dec-17 A	07-Apr-18																							
3.02 Primary Clarifiers and Odor Control																												
3.2.1	Engineering Design - ND Primary Clarifiers & Odor Control	03-Sep-14 A	01-Nov-15	17-Apr-17 A	15-May-17																							
3.2.2	Permitting - ND Primary Clarifiers & Odor Control	25-Oct-15 A	10-Mar-17	10-Oct-17 A	05-Sep-17																							
3.2.3	Procurement - ND Primary Clarifiers & Odor Control	07-Feb-17 A	06-Sep-17	05-Dec-18 A	02-Jun-18																							
3.2.4	Construction - ND Primary Clarifiers & Odor Control	23-Aug-17 A	03-Jun-18	08-Dec-21	06-Apr-23																							
3.03 Oxygenation Trains																												
3.3.1	Engineering Design - ND Oxygenation Trains	01-Jun-18 A	01-Jan-19	05-Feb-21 A	14-Oct-19																							
3.3.2	Permitting - ND Oxygenation Trains	07-Dec-20 A	15-Oct-19	18-Jun-21 A	13-Oct-20																							
3.3.3	Procurement - ND Oxygenation Trains	07-Jul-20 A	14-Oct-20	10-Mar-22	13-Oct-21																							
3.3.4	Construction - ND Oxygenation Trains	11-Mar-22	14-Oct-21	22-Jun-25	06-Mar-26																							
3.04 Oxygen Production																												
3.4.1	Engineering Design - ND Oxygen Production	01-Jun-18 A	01-Apr-20	05-Feb-21 A	17-Dec-20																							
3.4.2	Permitting - ND Oxygen Production	07-Dec-20 A	18-Dec-20	18-Jun-21 A	17-Dec-21																							
3.4.3	Procurement - ND Oxygen Production	07-Jul-20 A	18-Dec-21	10-Mar-22	17-Dec-22																							
3.4.4	Construction - ND Oxygen Production	11-Mar-22	18-Dec-22	22-Jun-25	06-Mar-26																							
3.05 Secondary Clarifiers																												
3.5.1	Engineering Design - ND Secondary Clarifiers	28-Aug-14 A	01-Dec-18	09-Mar-17 A	12-Nov-20																							
3.5.2	Permitting - ND Secondary Clarifiers	27-Mar-15 A	13-Nov-20	10-Oct-17 A	11-May-21																							
3.5.3	Procurement - ND Secondary Clarifiers	03-Oct-14 A	06-Feb-21	16-Dec-18 A	05-Feb-22																							
3.5.4	Construction - ND Secondary Clarifiers	19-Jan-15 A	06-Feb-22	14-Oct-22	24-Aug-27																							
3.06 Disinfection																												
3.6.1	Engineering Design - ND Disinfection	21-Apr-14 A	01-Feb-17	24-Jul-16 A	06-Apr-17																							
3.6.2	Permitting - ND Disinfection	25-Jul-16 A	07-Apr-17	22-Feb-19 A	06-Apr-18																							
3.6.3	Procurement - ND Disinfection	21-Nov-17 A	07-Apr-18	10-Sep-18 A	06-Apr-19																							
3.6.4	Construction - ND Disinfection	25-Feb-19 A	07-Apr-19	08-Oct-21	09-Sep-20																							
3.07 Effluent Disposal																												
3.7.1	Engineering Design (Summary) - ND Effluent Disposal	09-Jul-14 A	01-Dec-15	16-Oct-15 A	12-Sep-16																							
3.7.2	Permitting (Summary) - ND Effluent Disposal	17-Feb-15 A	13-Sep-16	04-Dec-15 A	27-Dec-19																							
3.7.3	Procurement (Summary) - ND Effluent Disposal	21-Feb-14 A	13-Sep-17	17-Oct-16 A	07-May-20																							
3.7.4	Construction (Summary) - ND Effluent Disposal	18-Feb-15 A	08-May-20	18-Jul-18 A	28-Dec-21																							
3.08 Plant Wide Electrical																												
3.8.1	Engineering Design - ND Plant Wide Electrical	01-May-14 A	21-Apr-14	13-Feb-20 A	20-Jan-17																							
3.8.2	Permitting - ND Plant Wide Electrical	01-May-15 A	21-Jan-17	24-Feb-20 A	20-Jan-18																							
3.8.3	Procurement - ND Plant Wide Electrical	12-Mar-15 A	21-Jan-18	20-Sep-20 A	20-Jan-19																							
3.8.4	Construction - ND Plant Wide Electrical	01-Oct-15 A	21-Jan-19	02-Mar-21 A	20-Aug-22																							

■ Remaining Project Phase Summary ■ Critical Re...
▽ Compliance Dates ◆ Milestone
■ Actual Project Phase Summary
■ Actual Work
■ Remaining Work

MIAMI-DADE WATER & SEWER DEPARTMENT CONSENT DECREE PROGRAM SCHEDULE CURRENT VS APPROVED EPA DATES



Date	Revision	Checked	Approved
14-Jul-14	Revision 0	GSR	DH
15-Apr-21	Mar 2021 Update		
14-May-21	Apr 2021 Update		
17-Jun-21	May 2021 Update		
16-Jul-21	June 2021 Update		

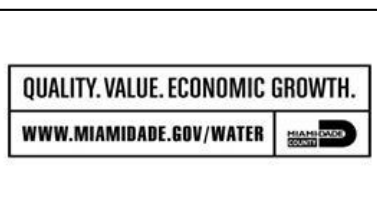
EPA Interim Milestone ID	Activity Name	Actual/Forecast Start	EPA Interim Milestone Start Date	Actual/Forecast Finish	EPA Interim Milestone Finish Date	2017	2018		2019		2020		2021		2022		2023		2024		2025		2026		
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
3.09 Flood Mitigation																									
3.9.1	Engineering Design - ND Flood Mitigation	04-Apr-14 A	21-Apr-14	30-May-15 A	30-May-15																				
3.9.2	Permitting - ND Flood Mitigation	01-May-15 A	27-Nov-14	01-May-15 A	26-Nov-15																				
3.9.3	Procurement - ND Flood Mitigation	01-May-15 A	27-Nov-15	24-Jun-16 A	25-Nov-16																				
3.9.4	Construction - ND Flood Mitigation	01-May-15 A	26-Nov-16	24-Jun-16 A	13-Aug-17																				
3.10 Yard Piping Replacement																									
3.10.1	Engineering Design - ND Yard Piping Replacement	06-Apr-15 A	10-Apr-16	06-Apr-15 A	16-Jul-17																				
3.10.2	Permitting - ND Yard Piping Replacement	06-Apr-15 A	17-Jul-17	06-Apr-15 A	12-Jan-18																				
3.10.3	Procurement - ND Yard Piping Replacement	05-Apr-15 A	13-Jan-18	06-Apr-15 A	09-Oct-18																				
3.10.4	Construction - ND Yard Piping Replacement	25-May-15 A	10-Oct-18	24-May-16 A	04-Dec-21																				
3.11 SCADA RTU Upgrades																									
3.11.1	Construction - ND SCADA RTU Upgrades	30-Sep-13 A	01-Oct-13	26-Nov-14 A	24-Mar-15																				
4. Wastewater Collection & Transmission Line																									
4.01 Collection System I/I Repairs																									
4.1.1	Construction - Collection System I/I Repair	01-Oct-13 A	01-Oct-13	27-Sep-27	27-Sep-27																				
4.02 Government Cut FM - Phase 1&2																									
4.2.1	Construction - Government Cut FM Phase 1 & 2	01-Oct-11 A	01-Oct-12	30-Sep-13 A	30-Sep-13																				
4.03 Government Cut FM - Phase 3																									
4.3.1	Engineering Design (DCP) - Government Cut FM Phase 3	30-Jan-13 A	30-Jan-13	22-Jan-14 A	22-Jan-14																				
4.3.2	Permitting - Government Cut FM Phase 3	02-May-14 A	14-Jul-14	19-Jul-15 A	10-Dec-14																				
4.3.3	Procurement - Government Cut FM Phase 3	28-Feb-13 A	08-May-14	22-Jan-14 A	07-May-15																				
4.3.4	Construction - Government Cut FM Phase 3	23-May-14 A	08-May-15	23-Nov-16 A	08-Apr-17																				
4.04 North Dade 72 inch PCCP FM Rehabilitation																									
4.4.1	Engineering Design (DCP) - North Dade 72" PCCP FM Rehab	13-May-13 A	01-Oct-13	15-Feb-14 A	06-Mar-14																				
4.4.2	Permitting - North Dade 72" PCCP FM Rehab	10-Mar-15 A	04-Oct-14	27-Nov-15 A	06-Mar-15																				
4.4.3	Procurement - North Dade 72" PCCP FM Rehab	03-Feb-14 A	07-Mar-15	04-Mar-15 A	05-Mar-16																				
4.4.4	Construction - North Dade 72" PCCP FM Rehab	30-Sep-15 A	09-Jul-17	05-May-16 A	05-Mar-18																				
4.05 South Dade 54 inch PCCP FM Rehabilitation																									
4.5.1	Engineering Design - South Dade 54" PCCP FM Rehab	05-Aug-14 A	05-Aug-14	01-Oct-15 A	20-Feb-15																				
4.5.2	Permitting - South Dade 54" PCCP FM Rehab	14-Oct-15 A	04-Jan-16	19-Feb-16 A	02-Jan-17																				
4.5.3	Procurement - South Dade 54" PCCP FM Rehab	03-Jun-16 A	07-Apr-15	26-Sep-16 A	15-Dec-16																				
4.5.4	Construction - South Dade 54" PCCP FM Rehab	26-Sep-16 A	16-Dec-16	14-Sep-18 A	23-Dec-18																				
4.06 Replacement of Tamiami Canal Aerial Crossing FM's at NW 37 Ave																									
4.6.1	Engineering Design - Replace Tamiami Canal/NW 37 Ave Crossing	11-Dec-12 A	01-Oct-13	11-Mar-13 A	02-Jan-14																				
4.6.2	Permitting - Replace Tamiami Canal/NW 37 Ave Crossing	12-Mar-13 A	03-Jan-14	11-May-13 A	02-Jan-15																				
4.6.3	Procurement - Replace Tamiami Canal/NW 37 Ave Crossing	13-May-13 A	03-Jan-15	03-Oct-13 A	02-Jan-16																				
4.6.4	Construction - Replace Tamiami Canal/NW 37 Ave Crossing	07-Oct-13 A	03-Jan-16	27-May-14 A	29-Oct-16																				
4.07 Replacement of 18 inch DIP FM in Miami Lakes																									
4.7.1	Engineering Design - Replace 18" DIP FM in Miami Lakes	11-Mar-12 A	01-Nov-13	08-May-14 A	08-May-14																				
4.7.2	Permitting - Replace 18" DIP FM in Miami Lakes	09-Jun-14 A	09-Jun-14	23-Oct-14 A	05-Mar-15																				
4.7.3	Procurement - Replace 18" DIP FM in Miami Lakes	24-Oct-14 A	06-Mar-15	01-Jun-15 A	04-Mar-16																				
4.7.4	Construction - Replace 18" DIP FM in Miami Lakes	02-Jun-15 A	05-Mar-16	07-Dec-15 A	09-Apr-17																				
4.08 Rehabilitation of 54 inch PCCP FM in the City																									

■ Remaining Project Phase Summary ■ Critical Re...
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MIAMI-DADE WATER & SEWER DEPARTMENT

CONSENT DECREE PROGRAM SCHEDULE

CURRENT VS APPROVED EPA DATES



Date	Revision	Checked	Approved
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15-Apr-21	Mar 2021 Update		
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17-Jun-21	May 2021 Update		
16-Jul-21	June 2021 Update		

Appendix C
CMOM Program:
Financial Analysis Program Report

MIAMI-DADE WATER AND SEWER DEPARTMENT
Consolidated Financial Projection - Wastewater Systems (\$000)
Fiscal Year Actuals Year to Date (October - March 2021)
(On an accrual basis)

<i>In Thousands</i>	Audited	UnAudited
	Oct-Sep	Oct-Mar
Wastewater System	FY 19-20 Actual	FY 20-21 Actual
Revenues:		
Wastewater System Operating Revenues	\$427,522	\$212,974
Interest Income	\$5,517	\$913
Other Adjustments (net change accruals&payables)	(\$1,579)	\$0
Transferred From WASD Water Operations (*Occurs at Year-end flow of funds)	\$79,085	\$0
Total Revenues:	\$510,545	\$213,887
Expenditures:		
Wastewater System Operating & Maintenance Expenditures	(\$275,021)	(\$134,484)
Debt Service - Existing (net of Swap receipts)	(\$171,507)	(\$80,683)
*Operating Revenues Transferred To Wastewater Renewal & Replacement Capital Fund	(\$45,200)	\$0
*Operating Revenues Transferred To Wastewater Special Construction Fund	(\$17,000)	\$0
*Operating Revenues Transferred To Bond Required Reserve	(\$1,817)	\$0
Transferred To WASD Water Operations	\$0	\$0
Total Expenditures Operating and Non-Operating	(\$510,545)	(\$215,167)
Net Overage/(Deficit) in Wastewater System Revenues (pending transfer from water)	\$0	(\$1,280)
% Increase for Net Deficit	0.00%	0.00%

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

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

Reserve Required By Bond Ordinance Water and Wastewater	\$80,060	\$79,261
Water and Wastewater Rate Stabilization Fund Balance	\$30,534	\$30,534
Water and Sewer General Reserve Fund Beginning Balance	\$76,780	\$79,708
Water and Wastewater Systems Transfer to/(from) General Reserve	\$2,928	\$0
Water and Sewer General Reserve Fund Ending Balance	\$79,708	\$79,708

Miami-Dade Water and Sewer Department
Statement of Revenues, Expenses and Changes in Net Position
WASTEWATER - Wastewater Funds
For 6 Months Ending March 31, 2021

Report Id: WGLZ11B
Run on: 04/13/21 04:55 PM
Source: GL

	Unaudited FY 2021			FY 2020	
	Actual	Budget	Variance Fav/(Unfav)	Actual	Variance Fav/(Unfav)
OPERATING REVENUES					
Retail Water	-	-	-	-	-
Retail Wastewater	166,039,022.05	164,371,923.00	1,667,099.05	154,815,616.66	11,223,405.39
Wholesale Water	-	-	-	-	-
Wholesale Wastewater	41,916,052.89	37,361,608.00	4,554,444.89	38,077,252.13	3,838,800.76
Other Revenues	5,018,907.12	8,118,563.00	(3,099,655.88)	7,706,567.21	(2,687,660.09)
TOTAL OPERATING REVENUES	212,973,982.06	209,852,094.00	3,121,888.06	200,599,436.00	12,374,546.06
OPERATING & MAINTENANCE EXPENSES					
Water Source of Supply	-	-	-	-	-
Water Pumping	-	-	-	-	-
Water Treatment and Purification	-	-	-	-	-
Water Transmission and Distribution	-	-	-	-	-
Sewer Collection	17,258,399.37	16,975,402.62	(282,996.75)	15,337,611.09	(1,920,788.28)
Sewer Pumping	27,165,625.50	24,418,026.66	(2,747,598.84)	24,502,442.44	(2,663,183.06)
Sewer Treatment and Disposal	49,800,164.26	52,872,798.54	3,072,634.28	50,084,686.55	284,522.29
Customer Accounting	1,579,896.97	1,895,295.85	315,398.88	1,767,605.34	187,708.37
Customer Service	5,865,506.69	2,665,581.86	(3,199,924.83)	5,941,501.04	75,994.35
General and Administration	32,813,862.85	32,129,844.25	(684,018.60)	26,864,492.01	(5,949,370.84)
Fringes and Overhead	-	-	-	-	-
Stores Overhead	-	-	-	-	-
Vehicle Overhead	-	-	-	-	-
TOTAL OPERATING & MAINTENANCE EXPENSES	134,483,455.64	130,956,949.78	(3,526,505.86)	124,498,338.47	(9,985,117.17)
OPERATING INCOME BEFORE DEPRECIATION	78,490,526.42	78,895,144.22	(404,617.80)	76,101,097.53	2,389,428.89
Depreciation	64,590,752.29	-	(64,590,752.29)	66,717,546.47	2,126,794.18
OPERATING INCOME (LOSS)	13,899,774.13	78,895,144.22	(64,995,370.09)	9,383,551.06	4,516,223.07
NON-OPERATING REVENUE (EXPENSE)					
Customer Connection Fees	9,121,319.79	-	9,121,319.79	12,264,103.67	(3,142,783.88)
Other Revenue	(1,538,998.15)	-	(1,538,998.15)	(11,822,213.98)	10,283,215.83
Other Expense	-	-	-	-	-
Change in Fair Value	-	-	-	(735,605.50)	735,605.50
Interest Income	404,120.50	-	404,120.50	5,332,130.69	(4,928,010.19)
Interest Expense	(44,149,184.51)	-	(44,149,184.51)	(43,838,947.03)	(310,237.48)
Capitalized Interest	(6,051.75)	-	(6,051.75)	(282,627.93)	276,576.18
Amortization of Debt Issue	(3,067,709.52)	-	(3,067,709.52)	(7,887,567.43)	4,819,857.91
Operating Disaster Revenue	128,152.58	-	128,152.58	(18,556.13)	146,708.71
Operating Grants	-	-	-	-	-
Job Order Recovery	467,249.21	-	467,249.21	511,855.49	(44,606.28)

Miami-Dade Water and Sewer Department
Statement of Revenues, Expenses and Changes in Net Position
WASTEWATER - Wastewater Funds
For 6 Months Ending March 31, 2021

Report Id: WGLZ11B
Run on: 04/13/21 04:55 PM
Source: GL

	Unaudited FY 2021			FY 2020	
	Actual	Budget	Variance Fav/(Unfav)	Actual	Variance Fav/(Unfav)
Job Order Expenses	(473,011.88)	-	(473,011.88)	(469,898.66)	(3,113.22)
Gen Fund Admin Support Fee	-	-	-	-	-
Non-Operating Transfers	-	-	-	-	-
Non-Operating Activity	-	-	-	-	-
Non-O&M Activity	-	-	-	-	-
TOTAL NON-OPERATING REVENUE (EXPENSE)	(39,114,113.73)	-	(39,114,113.73)	(46,947,326.81)	7,833,213.08
INCOME (LOSS) BEFORE CAPITAL CONTRIBUTIONS	(25,214,339.60)	78,895,144.22	(104,109,483.82)	(37,563,775.75)	12,349,436.15
Capital Contributions	6,296,479.59	-	6,296,479.59	6,901,677.13	(605,197.54)
INCREASE (DECREASE) IN NET POSITION	(18,917,860.01)	78,895,144.22	(97,813,004.23)	(30,662,098.62)	11,744,238.61

**Miami-Dade Water and Sewer Department
GL O&M Expense Analysis by O&M Activity
As of March 31, 2021**

Report Id: WFR018
Run on: 04/14/21 08:37 AM
Source: GL

	Annual Budget 2021	YEAR-TO-DATE				
		Actual 2021	Budget 2021	Actual 2020	Budget 2020	
OPERATING & MAINTENANCE EXPENSES						
100057	OM Activity - GL use only (SC)	578,413	519,255	289,206	401,994	279,605
225002	Sewer Collection & Trans (SC)	264,855	145,473	130,123	-	-
229002	Sewer Collection & Trans (SC)	668,466	508,172	322,892	-	-
260004	Security Services (SC)	700,000	420,206	329,840	250,186	387,660
260110	Communications (SC)	354,105	134,883	174,118	180,547	415,560
260402	Damages (SC)	126,725	74,951	62,546	67,757	68,087
350105	Construction Mgmt (SC)	-	-	-	19,678	-
360002	Sewer Collection & Trans (SC)	-	-	-	-	200
520521	Grounds Installs/Landscp (SC)	-	795	-	700	-
520601	Indoor Air Qly Insp Compl (SC)	50,000	-	23,560	-	37,350
520621	Install Mech/Hvac-Refr Eq (SC)	-	2,189	-	1,539	-
520661	Maint. of Mech Hvac Equip (SC)	-	63	-	53	-
520777	Maint. of Plumbing Equip (SC)	-	3,014	-	2,146	-
520871	Misc Projects/Tasks (SC)	-	-	-	17,948	-
520905	Locksmith Services (SC)	-	-	-	(1)	-
520921	Structural Misc Task (SC)	-	2,444	-	2,939	-
620004	Sewer Collection & Trans (SC)	255,000	29,251	120,156	14,082	-
630117	Sewer Collection & Trans (SC)	2,500	-	1,178	-	1,243
650002	Sewer Collection & Trans (SC)	-	-	-	648,513	621,872
711301	Sewer Meter Related Work (SC)	945,746	461,749	462,614	413,610	516,014
711302	Maint Swr Meter Vaults (SC)	-	-	-	1,796	-
711305	Calibr/Test Sewer Meter (SC)	-	1,936	-	-	-
810002	Sewer Collection Actv (SC)	-	-	-	(3,520)	-
811015	Telemetry/SCADA (SC)	77,600	88,058	75,273	92,086	85,218
840001	Admin. & General (SC)	3,828,117	1,112,922	1,559,776	1,179,882	1,470,517
840002	Facilities Maint (SC)	11,200	6,679	5,277	6,026	5,219
840101	Cleaning (SC)	2,404,599	2,054,782	1,154,907	1,737,526	2,248,436
840102	Evaluation/Review (SC)	637,184	505,132	313,558	429,611	393,402
840103	Force Main Inspection (SC)	81,301	126,678	40,008	107,348	39,439
840104	Inspection-Repair Shop (SC)	922,582	478,610	436,660	514,954	443,719
840105	Joint Grouting (SC)	15,000	168,706	7,068	94,419	237,715
840106	Lateral TV Inspection (SC)	201,039	400,252	98,804	299,000	645,478
840107	Manhole Inspections (SC)	-	55,589	-	87,394	-
840108	Manhole Sealing (SC)	246,300	362,304	116,057	649,897	40,627
840109	Metering-Conductivity (SC)	-	147,588	-	39,977	184,068
840110	Metering-Night Flow (SC)	-	232,570	-	95,792	61,201
840111	Metering-Pre/Post (SC)	100	-	47	-	75
840112	Special Projects Inspect (SC)	5,323,603	644,109	2,628,110	904,565	1,768,616
840113	Pump Station Improv Prog (SC)	-	-	-	(409)	-
840114	Smoke Test (SC)	1,200	20,147	565	22,437	600
840116	Wellfield Protect Inspec. (SC)	-	-	-	248,239	-
840117	I/I Contract - Inspection (SC)	2,000,000	126,898	942,400	106,592	1,023,013
840118	Sect Metal Sleeve Main Li (SC)	-	4,179	-	7,850	-
840119	Deroot Main Line (SC)	-	7,057	-	267	-
840120	Descale Main Line (SC)	-	97,183	-	14,599	-
840121	Heavy Clean Main Line (SC)	-	26,781	-	6,295	-
840122	Gravity Main CCTV Insp (SC)	-	991,799	-	605,379	-
840123	Grout Latrl Annular Space (SC)	-	40,857	-	13,024	-
840201	Air Rel Valve Maint & Ble (SC)	-	4,536	-	83,859	-
840203	Autom Air Rel Valve Rep (SC)	-	95,288	-	202,428	-
840204	Dye Tests (SC)	-	9,623	-	16,825	-
840205	Force Main Installation (SC)	-	369	-	-	-
840206	Force Main Repairs (SC)	887,014	1,331,438	419,727	413,744	401,209
840207	Gravity Main Installation (SC)	-	3,337	-	-	-
840208	Gravity Main Point Reps (SC)	5,800,775	2,337,223	2,843,058	1,863,609	2,795,438
840209	Lateral Location (SC)	-	-	-	855	-
840210	Lateral Point Repairs (SC)	1,346,800	1,575,033	563,932	925,322	281,240

Miami-Dade Water and Sewer Department
GL O&M Expense Analysis by O&M Activity
As of March 31, 2021

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	Annual Budget 2021	YEAR-TO-DATE				
		Actual 2021	Budget 2021	Actual 2020	Budget 2020	
840211	Maint./Rep-Rep Shop (SC)	170,500	29,892	80,340	139,578	200,738
840212	Manhole Installation (SC)	-	2,128	-	-	-
840213	Manhole-Repairs (SC)	2,177,200	268,046	1,025,897	767,368	1,642,961
840214	Restoration (SC)	5,000	460,564	2,500	447,033	-
840215	Sewer Lateral Inspection (SC)	-	136	-	389	-
840217	System Valve Exercising (SC)	4,572,887	966,067	2,269,127	1,124,243	1,018,037
840218	System Valve Installation (SC)	200	85,606	94	27,687	3,554
840219	System Valve Repair (SC)	-	4,807	-	-	-
840220	I/I Contract - Maint/Repr (SC)	1,000,000	-	471,200	-	497,000
840240	Assisting Other Divisions (SC)	-	80,742	-	41,893	-
850129	Metering (SC)	10,150	306	4,783	65	20,200
Sewer Collection		35,666,162	17,258,399	16,975,403	15,337,611	17,835,309
100058	OM Activity - GL use only (SP)	909,073	806,341	454,537	626,585	439,421
212006	Sewer Pumping (SP)	126,345	67,427	62,174	152,646	61,776
225001	Sewer Pumping (SP)	523,576	231,941	257,561	-	-
229001	Sewer Pumping (SP)	5,280	20,058	2,488	-	-
260005	Security Services (SP)	600,000	273,864	282,720	399,720	606,340
260120	Communications (SP)	257,425	216,456	126,537	256,659	452,519
320003	Sewer Pumping (SP)	-	-	-	7,171	-
350102	Construction Mgmt (SP)	-	2,574	-	-	-
360001	Sewer Pumping (SP)	-	-	-	198,007	373,387
520002	Admin. & General (SP)	13,000	385	6,126	(24,548)	497
520102	Install. of Elect Equip (SP)	-	55	-	-	-
520301	Fueling/Recovery Deliv (SP)	16,179	35,196	8,089	45,272	-
520522	Grounds Installs/Landscp (SP)	-	16,451	-	215	-
520542	Grounds Maint. Services (SP)	286,357	105,637	141,613	107,318	126,606
520622	Install Mech/Hvac-Refr Eq (SP)	-	2,639	-	4,792	-
520662	Maint. of Mech Hvac Equip (SP)	2,000	3,215	942	4,777	2,237
520778	Maint. of Plumbing Equip (SP)	107,609	11,441	52,954	15,958	52,911
520872	Misc Projects/Tasks (SP)	-	2,984	-	25,912	-
520906	Locksmith Services (SP)	-	-	-	(3)	-
520914	Painting (SP)	-	4,293	-	3,361	-
520922	Structural Misc Task (SP)	646,577	11,912	318,181	4,030	307,769
630112	Hazardous Waste Disposal (SP)	8,300	-	3,911	-	3,976
630114	Sewer Pumping (SP)	192,900	10,702	90,894	10,099	179,319
650001	Sewer Pumping (SP)	-	-	-	551	12,746
810001	Sewer Pumping Activities (SP)	-	-	-	(9,014)	-
811016	Telemetry/SCADA (SP)	882,895	1,189,528	458,629	1,130,256	450,453
830001	Adm&Gnl (SP)	1,980,451	692,205	946,825	1,020,582	873,331
830002	Adm&Gnl-Admin Support (SP)	911,936	557,554	448,823	402,115	328,856
830003	Adm&Gnl-Training (SP)	28,400	10,047	13,405	17,568	3,600
830004	Adm&Gnl-Supv (SP)	112,515	54,710	55,257	49,784	103,124
830005	Adm&Gnl-Other (SP)	835,135	454,844	397,280	395,387	287,079
830200	Operations (SP)	-	48,872	-	37,596	-
830201	OP-Shutdowns (SP)	-	33	-	2,856	463
830203	OP-Supv (SP)	953,996	577,391	471,431	544,672	646,249
830204	OP-Engineering (SP)	-	-	-	751	99
830205	OP-Operations (SP)	200	2,557	94	52	56,983
830206	OP-Other (SP)	8,595,471	1,111,630	4,229,685	1,099,091	3,779,102
830300	Equipment (SP)	7,734,351	4,985,213	3,730,051	3,099,377	3,862,668
830301	Equip-Routine (SP)	6,131,424	1,714,028	3,011,158	1,931,461	3,052,531
830302	Equip-Preventive (SP)	985,252	355,554	483,045	351,280	404,553
830303	Equip-Predictive (SP)	15,387	1,282	7,450	24,380	1,849
830304	Equip-Corrective (SP)	9,201,984	8,722,709	4,424,645	7,851,187	3,825,176
830305	Equip-Engineering (SP)	-	609	-	414	50
830306	Equip-Supervision (SP)	877,440	614,753	433,959	467,328	457,317
830307	Equip-Other (SP)	525,753	246,584	248,079	729,908	24,647
830401	GroundsRoutine (SP)	7,600	3,739	3,581	1,162	2,286

**Miami-Dade Water and Sewer Department
GL O&M Expense Analysis by O&M Activity
As of March 31, 2021**

Report Id: WFR018
Run on: 04/14/21 08:37 AM
Source: GL

	Annual Budget 2021	YEAR-TO-DATE				
		Actual 2021	Budget 2021	Actual 2020	Budget 2020	
830404	GroundsCorrective (SP)	800	620	377	465	1,494
830405	GroundsEngineering (SP)	200	-	94	948	-
830407	GroundsOther (SP)	-	-	-	103	-
830500	Structures (SP)	37,300	46,360	17,576	30,589	8,847
830501	Struct-Routine (SP)	77,200	373,389	36,666	503,646	30,000
830502	Struct-Preventive (SP)	2,000	974	942	-	547
830503	Struct-Predictive (SP)	8,314	-	3,918	51	7,558
830504	Struct-Corrective (SP)	285,176	561,836	138,843	694,593	87,857
830505	Struct-Engineering (SP)	14,523	730	6,843	448	7,505
830506	Struct-Supervision (SP)	634,365	257,000	312,447	336,959	303,348
830507	Struct-Other (SP)	3,439,958	593,300	1,689,394	804,819	1,526,915
830603	RemAct/Spil-Shutdowns (SP)	118	-	59	-	-
830700	Inspection (SP)	1,800	11,696	848	-	200
830703	Insp-ET's (SP)	38,853	139,943	18,430	123,799	17,063
830704	Insp-Prop Pump Stations (SP)	7,441	11,433	3,539	17,802	2,250
830705	Insp-Donations (SP)	-	946	-	-	-
830802	Gas Monit Calib-Materials (SP)	-	-	-	70,900	-
830900	Emergency (SP)	21,324	16,979	10,622	28,305	63
830901	Emerg - Hurrican Preparat (SP)	12,107	5,360	5,947	66	-
830902	Emerg-Hurricane Recovery (SP)	500	840,489	238	-	250
830904	Emergency - Run Generator (SP)	32,832	4,840	16,315	7,057	200
830906	Emergency - OPP (SP)	-	16,903	-	13,581	-
830907	Assist other Division (SP)	74,898	74,497	37,265	35,074	100
850130	Utilities Monitoring (SP)	1,563,500	683,436	736,721	724,880	743,180
850203	Assistance to Other Div (SP)	100	34,817	50	-	426
850209	Maint/Rep-Diesel Eq/Gens(SP)	271,150	144,496	127,769	31,982	67,902
850213	Maint/Rep-Pump Stations (SP)	156,550	178,162	73,766	89,661	181,315
850220	Maint/Rep-Struct/Grounds (SP)	-	6	-	-	50
850222	Underground Piping/Valves (SP)	10,150	-	4,783	-	25,459
850224	Remedial Action/Spills (SP)	-	-	-	-	25
850226	Telemetry/SCADA (SP)	4,200	-	1,979	-	2,858
850228	Odor Control (SP)	1,000	-	471	-	4,970
Sewer Pumping		50,171,167	27,165,626	24,418,027	24,502,442	23,800,298
100059	OM Activity - GL use only (ST)	1,767,848	1,488,022	883,204	1,170,698	854,879
210001	Sewer Trmnt & Disposal (ST)	3,000,000	-	1,413,600	-	1,988,000
212007	Sewer Treat and Disposal (ST)	347,602	170,795	171,051	176,739	168,229
227001	Sewer Treatment Activity (ST)	1,457,935	190,226	696,466	252,517	795,539
228001	Sewer Treatment Activity (ST)	200,349	99,260	98,525	104,225	98,822
260006	Security Services (ST)	2,500,000	904,353	1,178,000	702,749	1,491,000
320002	Expense Projects (ST)	-	-	-	(56)	-
350107	Construction Mgmt (ST)	-	(1,988)	-	22,402	-
520302	Fueling/Recovery Deliv (ST)	-	38,624	-	18,341	1,500
520463	Fire Protection System (ST)	-	4,289	-	(40)	-
520501	Grounds Contract Services (ST)	347,603	157,597	169,237	152,364	129,749
520523	Grounds Installs/Landscp (ST)	-	6,245	-	4,921	-
520543	Grounds Maint. Services (ST)	1,642,521	633,868	807,364	605,441	675,721
520623	Install Mech/Hvac-Refr Eq (ST)	-	738	-	(49,825)	-
520643	Maintenance Contracts (ST)	-	-	-	93	-
520663	Maint. of Mech Hvac Equip (ST)	1,093,855	703,850	535,964	499,926	493,349
520779	Maint. of Plumbing Equip (ST)	-	-	-	300	-
520873	Misc Projects/Tasks (ST)	-	144	-	2,638	81,237
520974	Rentals-Other Divisions (ST)	-	330,799	-	438,357	50
610001	Sewer Treatment Plant (ST)	-	2,441	-	12,360	-
620001	Sewer Treatment Plant (ST)	1,840,000	992	867,008	312,520	571,550
630119	Sewer Treatment Plant (ST)	307,800	41,793	145,035	165,690	179,248
740001	LabS Treat & Disp Exp (ST)	3,192,447	1,562,485	1,559,918	1,393,559	1,418,687
810003	Sewer Treatment Actv (ST)	300,000	-	141,360	68,647	125,000
811017	Telemetry/SCADA (ST)	4,992,296	1,219,215	2,479,295	1,150,776	2,738,147

Miami-Dade Water and Sewer Department
GL O&M Expense Analysis by O&M Activity
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		Actual 2021	Budget 2021	Actual 2020	Budget 2020
811018 Main/Rep-Rad/Com Eq (ST)	61,800	22,791	31,764	7,369	24,865
811021 Instl/Rep/Cam/Surv Eq (ST)	210,837	105,382	103,759	114,546	106,659
850001 Admin. & General (ST)	35,557,366	16,669,164	17,256,148	16,333,319	17,977,719
850002 Adm&Gnl-CMMS (ST)	426,679	130,839	209,318	106,048	202,319
850003 Adm&Gnl-Supervision (ST)*	75	-	35	-	62
850004 Adm & Gnl-Permitting (ST)	55,650	46,891	26,222	54,096	15,761
850005 CDL Random Testing (ST)	100	-	50	-	100
850006 Training (ST)	28,110	10,198	13,303	25,365	12,173
850007 Union Activities (ST)	100	-	47	-	99
850103 Emerg Power Generation (ST)	5,983	15,778	2,988	-	3,647
850104 Odor Control (ST)	7,508,451	2,911,796	3,626,373	2,369,806	4,012,259
850105 Effluent Pumping (ST)	1,000	-	471	-	4,970
850106 Pumping Stations (ST)	3,528	-	1,666	-	2,982
850109 Training (ST)	67,425	15,482	33,638	41,921	43,833
850111 Purchased Treatment (ST)	-	-	-	-	62
850112 Reuse Facility (ST)	7,638	-	3,616	-	3,001
850114 Sludge Cons & Diges Ops (ST)	3,808	661,808	1,840	-	7,364
850115 Dewatering (ST)	2,867,962	1,631,123	1,359,935	2,024,827	1,480,566
850116 Solids Handling (ST)	10,105,771	4,897,604	4,764,621	4,587,412	6,012,536
850117 Headworks (ST)	100	-	47	-	75
850119 Secondary Clarification (ST)	11,437	43,431	5,423	-	16,795
850120 O2 Generation (ST)	379,885	332,406	184,795	127,099	222,521
850121 Non Emer Power Generation (ST)	264,098	99,585	129,948	82,447	192,202
850122 Final Station (ST)	200	-	94	-	746
850123 Deep Well Injection (ST)	291,100	-	137,166	27,550	597
850124 Tanker Duty (ST)	2,353	-	1,176	(333)	5,803
850125 Biosolids Processing (ST)	50,250	-	23,678	-	25,546
850127 Vessel Cleaning (ST)	83,963	131,985	41,952	45,194	79,520
850128 Special Projects (ST)	33,492	77,031	16,557	89,925	31,052
850202 Other Maintenance (ST)	646,071	323,348	306,662	155,145	247,835
850204 Assistance to Other Div (ST)	31,094	24,648	15,482	44,445	17,233
850206 Emerg Actv/Emg Gen-Stby (ST)	120,800	263,600	60,309	104,412	61,993
850208 Maint/Rep-Co-Generation(ST)	1,055,346	613,272	508,182	624,112	382,111
850210 Maint/Rep-Diesel Eqp/Gens(ST)	2,540,650	1,122,049	1,238,981	1,759,915	1,523,688
850211 Maint/Rep-Plant Equipment (ST)	16,051,805	8,019,850	7,825,472	7,681,524	7,911,681
850212 Maint/Rep-Instr/Ctrls/Mtrs(ST)	313,708	159,646	148,258	138,758	313,265
850214 Maint/Rep-Pump Stations (ST)	3,000	-	1,414	-	1,951
850215 Maint/Rep-Radio/Comm (ST)	200	-	94	-	149
850216 Maint/Rep-Cryogenic Plant (ST)	127,779	77,725	63,168	160,515	32,243
850217 Maint/Rep-Sldg Concnt/Digs(ST)	64,630	79,594	31,982	267,179	16,935
850218 Maint/Rep-Sldg Dewatering(ST)	48,433	84,433	22,991	2,380,949	22,087
850219 Maint/Rep-Sludge Handling (ST)	670,494	10,089	329,886	9,859	393,725
850221 Maint/Rep-Struct/Grounds (ST)	3,561,602	1,701,327	1,741,270	1,948,214	1,385,229
850223 Underground Piping/Valves (ST)	468,743	36,043	223,500	108,456	203,660
850225 Remedial Action/Spills (ST)	1,100	-	518	-	621
850227 Telemetry/SCADA (ST)	100	5,094	47	26,050	50
850230 Special Projects (ST)	2,491,038	1,922,407	1,231,923	1,433,221	1,219,973
Sewer Treatment and Disposal	109,216,012	49,800,164	52,872,799	50,084,687	56,030,970
Customer Accounting	10,832,260	3,590,675	4,307,491	4,017,285	4,418,961
Customer Service	21,777,945	13,330,697	7,801,350	13,503,411	13,566,469
General and Administration	112,306,895	59,661,569	58,417,899	48,844,531	60,155,723
TOTAL O&M EXPENSES	475,564,221	231,679,100	229,010,957	217,244,062	236,619,765
TOTAL DIRECT O&M WASTEWATER SYSTEM EXPENSES		94,224,189		89,924,740	
		Oct-Mar FY 2021		Oct-Mar FY 2020	

Miami-Dade Water and Sewer Department
Wastewater Capital Expenditures by Project/Sub-Projects
10/1/2020 through 3/31/2021

Project No.	Project Description	Subproject No.	WASD Subproject Name	Expenditures from 10/1/2020 to 3-31-2021
1002	NORTH DISTRICT - WASTEWATER TREATMENT PLANT UPGRADES	101947	NDWWTP FA MONITORING WELLS TO MEET FDEP REQ.	\$1,073,935
1003	CENTRAL DISTRICT - WASTEWATER TREATMENT PLANT UPGRADES	102205	2.21.02 PS 1 SEAWALL AND HARDENING PROJECT (FEMA)	\$226,147
1003	CENTRAL DISTRICT - WASTEWATER TREATMENT PLANT UPGRADES	102206	CD2.22.02 - PS 2 BEAUTIFICATION AND HARDENING CITY OF MIAMI (FEMA)	\$27,870
1006	SOUTH DISTRICT WASTEWATER TREATMENT PLANT EXPANSION - PHASE III	102102	SDWWTP FA MONITORING WELL REPLACEMENT	\$5,515
1007	SOUTH DISTRICT WASTEWATER TREATMENT PLANT UPGRADES	102184	SDWWTP FOG RECOVERY STATION	\$664,135
1008	NORTH MIAMI-DADE WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	101768	WASD SERVICE AREA WEST OF I-75 AND NORTH OF NW 170 ST. (ADM AREA)	\$25,970
1008	NORTH MIAMI-DADE WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	101924	INSTALLATION OF A REDUNDANT SEWER FM FROM WEST SIDE OF INTERCOASTAL WATERWAY AT NE 163 ST TO NDWWTP	\$1,465
1008	NORTH MIAMI-DADE WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	101985	LEHAM CAUSEWAY	\$110,504
1008	NORTH MIAMI-DADE WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	102072	NL-1A TO PHASE 1 & 2: 60" FM FROM BISCAYNE BLVD. TO N. MIAMI AVE. Phase 1 & 2	\$128,713
1008	NORTH MIAMI-DADE WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	102245	OJUS SANITARY SEWER WITHIN THE OJUS URBAN AREA DISTRICT (DIRECTOR)	\$70,399
1008	NORTH MIAMI-DADE WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	103018	REPLACE 18" DIP FM FROM PS 499 NORTH ON ISLAND BLVD TO PS 471	\$38,273
1008	NORTH MIAMI-DADE WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	103036	Force Main Replacement from PS0491 to Manhole on 137 at Collins Ave.	\$13,231
1009	CENTRAL MIAMI-DADE WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	102200	BISCAYNE BASIN PROJECTS RELATED TO CL-1	\$316,643
1011	FLOW REDUCTION PROGRAM (FRP)	100050	REHABILITATION OF SEWER MAINS DUE TO I/I - SECTIONAL LINING	\$549,848
1011	FLOW REDUCTION PROGRAM (FRP)	100890	REHABILITATION OF SEWER MAINS DUE TO I/I - CURED-IN-PLACE LINING	\$2,153,917
1011	FLOW REDUCTION PROGRAM (FRP)	102800	Rehabilitation of Sewer Mains - Dig and Replace, (Previously called Collection System I/I Repairs)	\$123,841
1011	FLOW REDUCTION PROGRAM (FRP)	103019	Rehabilitation of Sewer Mains - CIPP for WPO	\$383,660
1013	WASTEWATER GENERAL MAINTENANCE AND OFFICE FACILITIES	101886	MIAMI GARDENS (CAROL CITY YARD) - MODULAR / STEEL BUILDING	\$12,115
1013	WASTEWATER GENERAL MAINTENANCE AND OFFICE FACILITIES	103005	SOUTH MIAMI HEIGHTS TRAILER INSTALLATION AND SITE DEVELOPMENT	\$1,091,606
1015	PUMP STATION IMPROVEMENTS PROGRAM	101454	PUMP STATION IMPROVEMENT PROGRAM	\$6,255,092
1018	PEAK FLOW MANAGEMENT FACILITIES	101774	Force Main in Doral 36-Inch Diameter Sanitary Sewer FM: in 107 Avenue - from NW 7 St. to NW 25 Street	\$321,006
1018	PEAK FLOW MANAGEMENT FACILITIES	102034	LAND ACQUISITION FOR WDWTP (WDWRRF) (WT-1L)	\$239,361
1019	SANITARY SEWER SYSTEM EXTENSION	100877	SANITARY SEWER SYSTEM EXTENSION	\$2,116,498
1019	SANITARY SEWER SYSTEM EXTENSION	101733	SANITARY SEWER SYSTEM EXTENSION FOR JPA's	\$733,446
1021	PUMP STATION GENERATORS AND MISCELLANEOUS UPGRADES	103021	Hardening of 10 Pump Stations (PS 54,112,300,311,348,536,68 3,1043,1044, 1310) (FEMA)	\$88,549
1023	WASTEWATER TELEMETERING SYSTEM	100621	TELEMETERING SYSTEM - WASTEWATER	\$56,729
1024	WASTEWATER SYSTEM MAINTENANCE AND UPGRADES	100622	WASTEWATER SYSTEM UPGRADES	\$10,548,048
1025	LIFT STATION UPGRADES AND STRUCTURAL MAINTENANCE IMPROVEMENTS	100623	LIFT STATION STRUCTURAL MAINTENANCE & UPGRADES	\$2,604,282
1027	WASTEWATER EQUIPMENT	100625	MISCELLANEOUS TOOLS AND EQUIPMENT	\$70,970
1027	WASTEWATER EQUIPMENT	101729	VEHICLES/TRANSPORTATION EQUIPMENT	\$727,975
1027	WASTEWATER EQUIPMENT	101730	HEAVY CONSTRUCTION EQUIPMENT	\$641,488
1029	WASTEWATER TREATMENT PLANTS REPLACEMENT AND RENOVATION	100627	WASTEWATER TREATMENT PLANTS REHABILITATION	\$5,064,015
1029	WASTEWATER TREATMENT PLANTS REPLACEMENT AND RENOVATION	101732	SECURITY PROJECTS	\$304,873
1040	OCEAN OUTFALL LEGISLATION REGULATORY	101867	CT-2A - CDWWTP - HLD Improvements & Filtration Pilot Test	\$125,546
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102006	NT-2C - NDWWTP - HLD Facilities	\$493,924
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102007	NE-2 - NDWWTP - Municipal Injection Wells (WIFIA 1)	\$611,531
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102008	NE-1 - NDWWTP - Municipal Injection Well PS	\$249,578
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102009	CE-1 - CDWWTP - Municipal Injection Well PS	\$921,317
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102010	CE-2 - CDWWTP - Municipal Injection Wells (WIFIA 1)	\$16,167,894
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102038	CDWWTP - CENTRATE INJECTION WELL (CE-4)	\$470,866
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102080	NT-3 - NDWWTP - EDB # 2 (Electrical Bldg. for HLD) (WIFIA 2)	\$162,330
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102096	CDWWTP PUMP STATION FOR CENTRATE WELL (CE-3)	\$2,430,774
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102138	OWNERS REPRESENTATIVE SERVICES FOR OOL PROGRAM AND WASTEWATER SYSTEM	(\$2,093,497)
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102222	CT-3C.1 - CDWWTP - EDB #2 (HLD)(WIFIA 2)	\$1,798,664

Miami-Dade Water and Sewer Department
Wastewater Capital Expenditures by Project/Sub-Projects
10/1/2020 through 3/31/2021

Project No.	Project Description	Subproject No.	WASD Subproject Name	Expenditures from 10/1/2020 to 3-31-2021
1040	OCEAN OUTFALL LEGISLATION REGULATORY	103007	CT-3B - CDWWTP - O2 Train and Secondary Clarifiers	\$742,977
1040	OCEAN OUTFALL LEGISLATION REGULATORY	103014	NT-2B- NDWWTP - Site Prep & Stormwater	\$552,154
1041	MIAMI SPRINGS - PUMP STATION UPGRADES (BUILDING BETTER COMMUNITIES BOND PROGRAM)	101796	UPGRADE OF MIAMI SPRINGS PUMP STATION AND CONTRACT SPECIFICATIONS	\$35,086
1042	WASTEWATER - PIPES AND INFRASTRUCTURE PROJECTS	101967	WASTEWATER - PIPES AND INFRASTRUCTURE PROJECTS	\$570,173
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102500	SDWWTP - Headworks	\$27
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102501	SDWWTP - Oxygen Production	\$4,033,465
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102502	SDWWTP - Oxygenation Trains	\$182,950
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102503	SDWWTP - Chlorine Building	\$134,879
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102504	SDWWTP - Effluent Pump Station	\$14,351,991
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102506	SDWWTP - Digesters and Control Buildings	\$11,871,665
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102507	SDWWTP - Dewatering Facility	\$6,929,962
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102508	SDWWTP - FOG Removal Facility	\$56,336
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102509	SDWWTP - Odor Control	\$110,403
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102510	SDWWTP - General Electrical	\$67,366
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102511	SDWWTP - Chlorine Contact Chamber Structural	\$761,817
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102600	CDWWTP - Electrical Improvements	\$2,170,256
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102601	CDWWTP - Building improvements	\$22,692
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102602	Headworks Plant 1	\$150,515
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102603	CDWWTP - Headworks Plant 2	\$111,970
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102604	CDWWTP - Oxygenation Trains Plant 1	\$11,973
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102605	CDWWTP - Oxygenation Trains Plant 2	\$874,462
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102606	CDWWTP - Secondary Clarifiers Plant 1	\$425,480
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102607	CDWWTP - Secondary Clarifiers Plant 2	\$1,007,602
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102608	CDWWTP - RS Pump Stations Plant 1	\$50,241
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102609	CDWWTP - RS Pump Stations Plant 2	\$6,045,364
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102610	CDWWTP - Effluent Pump Station	\$8,360,169
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102614	CDWWTP - Digesters Plant 2	\$7,774,397
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102615	CDWWTP - Dewatering Building	\$9,515,522
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102616	CDWWTP - Chlorination Facilities	\$31,489
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102618	CDWWTP - Co-Gen Facility	\$449,822
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102620	CDWWTP - Pump Station 1	\$63,733
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102621	CDWWTP - Pump Station 2	\$625,680
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102624	CDWWTP - Ventilation Improvements	\$66,174
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102625	CDWWTP - REHABILITATION OF WALKWAYS AND STAIRWAYS	\$27,453
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102626	CDWWTP - Oxygen Production	\$19,270,960
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102628	CONSENT DECREE PROGRAM MANAGEMENT & CONSTRUCTION MANAGEMENT	(\$7,692,645)
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102700	NDWWTP - Headworks and Sludge Degritting Transfer	\$11,488
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102701	NDWWTP - Primary Clarifiers and Odor Control	\$9,744,511
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102703	NDWWTP - Oxygen Production	\$794,620
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102704	NDWWTP - Secondary Clarifiers	\$2,465,469
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102705	NDWWTP - Disinfection	\$2,439,364
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102707	NDWWTP - Plant Wide Electrical	\$599,725
1045	WASTEWATER COLLECTION AND TRANSMISSION LINES - CONSENT DECREE PROJECTS	102804	South Dade 54 inch PCCP FM Rehabilitation	\$32,729
1045	WASTEWATER COLLECTION AND TRANSMISSION LINES - CONSENT DECREE PROJECTS	102808	Replace Approximately 25 miles of AC force mains	\$868,694
1045	WASTEWATER COLLECTION AND TRANSMISSION LINES - CONSENT DECREE PROJECTS	102809	Opa-Locka Airport 48" PCCP force main replacement	\$77,326
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102900	DORAL BASIN - UPGRADE SEWAGE PS No. 418	\$96,148
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102902	Upgrade of PS#0692	\$2,168,248
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102903	Replacement of Switchgear PS#0414	\$77,709
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102904	Replacement of Switchgear and Rehabilitation of Wet well PS#0415	\$61,692
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102905	Replacement of Switchgear PS#0416	\$86,243
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102906	Replacement of Switchgear and Rehabilitation of Wet well PS#0417	\$316,517
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102908	Replacement of Plumbing and Electrical Equipment at PS#0301	\$2,725,898
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102909	Upgrade of PS#0488	\$0
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102910	Installation of 60 inch FM from Kendall Dr to PS#0536	\$367,032
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102911	Replacement of Switchgear at PS#0187	\$26,953
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102916	Upgrade of PS #0037, 0351, 0370, 0403	\$86,577
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102917	Upgrade of PS #0441, 0491, 0710, 0827, 0852, 1236	\$88,594

Miami-Dade Water and Sewer Department
Wastewater Capital Expenditures by Project/Sub-Projects
10/1/2020 through 3/31/2021

Project No.	Project Description	Subproject No.	WASD Subproject Name	Expenditures from 10/1/2020 to 3-31-2021
1047	WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT	103000	WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT - GRAVITY AND FORCE MAINS	\$2,377,334
1047	WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT	103001	WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT - PUMP STATIONS	\$160,637
1047	WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT	103002	SUPPLEMENTAL ENVIRONMENT PROJECT (SEP)	\$33,322
1048	SOUTH DISTRICT EXPANSION	101757	CL-1 - Downtown Transmission FM Extension	\$1,814,131
1048	SOUTH DISTRICT EXPANSION	102055	ST-1B - SDWWTP - Step Feed & Oxygenation Train Rehab	\$842,034
1048	SOUTH DISTRICT EXPANSION	102150	SE-2 - SDWWTP - Municipal Injection Wells (WIFIA 1)	\$4,645,491
1048	SOUTH DISTRICT EXPANSION	103009	SDWWTP - Chlorine Contact & Wells PS (ST-2C)	\$135,736
1048	SOUTH DISTRICT EXPANSION	103011	SDWWTP - Electrical Building (ST-2D)(WIFIA 2)	\$355,460
1048	SOUTH DISTRICT EXPANSION	103015	ST- 2E - SDWWTP - RAS Piping	\$119,615
1049	PUMP STATION RESILIENCE PROGRAM (PSRP)	101816	INSTALLATION OF ODOR CONTROL UNITS AT PUMP STATIONS (VAPE)	\$14,912
1049	PUMP STATION RESILIENCE PROGRAM (PSRP)	101930	REPLACEMENT OF MECHANICAL EQUIPMENT IN REGIONAL PUMP STATIONS	\$2,978
1049	PUMP STATION RESILIENCE PROGRAM (PSRP)	101934	REPLACEMENT OF VARIABLE REQUENCY DRIVES (VFD)	\$415,729
1049	PUMP STATION RESILIENCE PROGRAM (PSRP)	102045	P.S. 2 BASIN UPGRADE - PHASE 1 LOCAL	\$139,062
1049	PUMP STATION RESILIENCE PROGRAM (PSRP)	102126	RELOCATION OF 20 PUMP STATIONS	\$84,063
1049	PUMP STATION RESILIENCE PROGRAM (PSRP)	102160	CONVERSION OF CAN PUMP STATIONS TO SUBMERSIBLE	\$356,690
1049	PUMP STATION RESILIENCE PROGRAM (PSRP)	102163	PS NO. 0559 - REPLACEMENT OF MECH & ELECTRICAL EQUIPMENT	\$18,329
1049	PUMP STATION RESILIENCE PROGRAM (PSRP)	102192	OUT OF COMPLIANCE PUMP STATIONS	\$606,515
1049	PUMP STATION RESILIENCE PROGRAM (PSRP)	103022	Pump Station Upgrades due to Aging Infrastructure	\$113,948
Total Wastewater Expenditures from 10/1/2020 to 3/31/2021				\$183,265,128

Appendix D
Supplemental Environmental Project:
Connection Database

Folio	Address	Owner	Folio Number	Property Type	TYPE OF USE/PTXA	SWR CC'S	ACCOUNT IN CC&B	TYPE OF ACCT	NORC Letter Sent	NORC No.	Date Sent	90 or 365 days to connect	Connection deadlines	Connected	Violation Number & Type	Certified Receipt Confirmation Number (USFS)	C. Date of Delivery	RER Received C Returned Card	Notes	
FOUO 74	2717 NW 34 ST MIAMI FL 33142	SITE INVEST LLC	3031270010860	INDUSTRIAL	WAREHOUSE	\$ 168.00	YES	WAREHOUSE	YES	5119	4/30/2019	90	7/29/2019	P2020032908 - final 6/3/20						
PHASE 1	3255 NW 38 ST MIAMI FL 33142	DANDY SAND INVESTMENTS LLC	3031210140580	INDUSTRIAL	N/A	NO	NO	N/A	YES	5601	7/16/2018			C2019113753 - P2019069995						
PHASE 1	3298 NW 38 ST MIAMI FL 33142	3 CS DEVELOPMENT GROUP LLC	3031210140430	INDUSTRIAL	N/A	NO	NO	N/A	YES	5602	7/16/2018			N/A Total demo C2019101607 - P2020014854	#F2008108198 & #F2018004650				9020 FAILURE TO OBTAIN 40 YR. BUILDING RE-CERTIFICATION: SEC. 8-11 (f) CODE OF MIAMI-DADE COUNTY AND THE FLORIDA BUILDING CODE 9007 THE ELECTRICAL OR MECHANICAL INSTALLATIONS OR SYSTEMS CREATE A HAZARDOUS CONDITION: SEC. 8-5 (b)(2)(v) CODE OF MIAMI-DADE COUNTY AND THE FLORIDA BUILDING CODE	
PHASE 1	3251 NW 38 ST MIAMI FL 33142	FELIX SERVELLO	3031210140570	INDUSTRIAL	WAREHOUSE	NO	YES / 6039923200	WAREHOUSE	YES	5603	7/16/2018			2018-ALL-1205 / NOSA sent 7.18.18						
PHASE 1	3200 NW 38 ST MIAMI FL 33142	ROGELIO E MULLER	3031210140530	INDUSTRIAL	OFFICE & WAREHOUSE	NO	YES / 2565226322	OFFICE & WAREHOUSE	YES	5604	7/16/2018			2018-ALL-1210 / NOSA sent 7.18.18						
PHASE 1	3800 NW 38 ST MIAMI FL 33142	FRANK DE LA OLIVA	3031210140540	INDUSTRIAL	WAREHOUSE	YES / N00067957	YES / 3165526200	WAREHOUSE	YES	5605	7/16/2018			C2019192870 - P2019076186						
PHASE 1	3241 NW 38 ST MIAMI FL 33142	SCANDINAVIAN DEVELOPMENT LLC	3031210140460	INDUSTRIAL		NO	NO	N/A	YES	5606	7/16/2018			C2019045141 - P2019026728						
FOUO 6	3800 NW 35 AVE MIAMI FL 33412	ELEVATOR CONSTRUCTIONS LOCAL 71 HOLDING CO INC	3031210001251	INDUSTRIAL	AUTOMOTIVE	\$ 3,337.60	YES	WAREHOUSE	YES	5872	3/8/2019	365	3/8/2019	P2020013993 - P2020048565 - C2019196856 - P2020001215		7017 2400 0000 7831 3926	No Date of Signature	3/22/2019		
FOUO 41	3175 NW 37 ST MIAMI FL 33142	AUTOMOTIVE PROPERTIES WEST LLC/O TRACY SEIDLE	3031210030070	INDUSTRIAL	AUTOMOTIVE-MARINE	\$ 2,273.60	YES	VEHICLE DEALER	YES	5873	3/8/2019	365	3/8/2020			7017 2400 0000 7831 3919	3/22/2019	4/9/2019		
FOUO 3	3705 NW 35TH AVE MIAMI FL 33412	AV 3705 LLC	3031210360550	INDUSTRIAL	MIX-USE	\$ 753.20	YES	STORE	YES	5875	3/8/2019	90	6/6/2019	C2019188710 - P2019063213	F2017003536 (Unsafe Structure)	7017 2400 0000 7831 3933	No Date of Signature	3/22/2019	Property was sold and NORC was resent to the current property owner (AV 3705 LLC. Attn: Alba Rodriguez. 9 Palmetto Drive Miami Springs, FL 33166) NORC sent on 11/13/19 9020 FAILURE TO OBTAIN 40 YR. BUILDING RE-CERTIFICATION: SEC. 8-11 (f) CODE OF MIAMI-DADE COUNTY AND THE FLORIDA BUILDING CODE	
FOUO 9	3455 NW 37 ST MIAMI FL 33412	HEMBLY O EULER	3031210360551	INDUSTRIAL	AUTOMOTIVE	\$ 722.40	YES	VEHICLE REPAIR	YES	5876				C2019209631 - P2019078753		7017 2400 0000 7831 3940	4/1/2019	4/4/2019		
FOUO 11	3375 NW 37 ST MIAMI FL 33412	FELIPE VISSER JTRS WILLIAN LLOYD JTR	3031210360570	INDUSTRIAL	MANUF-FOOD PROCESSING	\$ 5,978.00	YES	FACTORY	YES	5877				C2019086261 - P2019032110		7017 2400 0000 7831 3957	Unknown	4/4/2019		
FOUO 8	3370 NW 37 ST MIAMI FL 33412	ART BY GOD INC	3031210360680	INDUSTRIAL	WAREHOUSE	\$ 627.20	YES	WAREHOUSE	YES	5878	Unknown									
FOUO 20	3300 NW 37 ST MIAMI FL 33412	ART BY GOD INC	3031210360620	INDUSTRIAL	MANUF-FOOD PROCESSING	\$ 40,654.32	YES	WAREHOUSE	YES	5879						7017 2400 0000 7831 3964	3/20/2019	4/4/2019		
FOUO 2	3691 NW 35TH AVE MIAMI FL 33412	PELMENI LLC	3031210360690	INDUSTRIAL	3- APTS	\$ 2,520.00	YES	APTS	YES	5880				N/A, bldg. demolished, permit #P2019032875						
FOUO 55	4001 NW 32 AVE MIAMI FL 33412	BOB W YOUNG & W CAROL	3031210430050	INDUSTRIAL	AUTOMOTIVE-MARINE	\$ 3,235.12	YES	WAREHOUSE	YES	5881					#G20170183167					Second floor created inside single story building 9006 THERE IS AN UNUSUAL SAGGING OR LEANING OUT OF PLUMB OF THE STRUCTURE OR ANY PARTS OF THE STRUCTURE AND SUCH EFFECT IS CAUSED BY DETERIORATION OR OVER-STRESSING: SEC. 8-5 (b)(2)(iv) CODE OF MIAMI-DADE COUNTY AND THE FLORIDA BUILDING CODE
FOUO 46	3801 NW 32 AVE MIAMI FL 33412	RICARDO M VISBAL & MARIA ALFONSO	3031210030030	COMMERCIAL	AUTOMOTIVE OR MARINE	\$ 1,385.44	YES	VEHICLE REPAIR	YES	5882	4/25/2019	90	7/24/2019	C2019160563 - P2019061872		7017 2400 0000 7831 8327	5/2/2019	5/7/2019		
FOUO 44	3190 NW 38 ST MIAMI FL 33412	RICARDO R ORGAZ & W JANET	3031210030060	COMMERCIAL	AUTOMOTIVE OR MARINE	\$ 5,346.88	YES	WAREHOUSE	YES	5883				P2019081259 - C2019183844 - P2019066614		7017 2400 0000 7831 3995	4/1/2019	4/4/2019		
FOUO 43	3701 NW 32ND AVE LLC	3701 NW 32ND AVE LLC	3031210030061	COMMERCIAL	AUTOMOTIVE OR MARINE	\$ 1,293.60	YES	WAREHOUSE	YES	5884	3/21/2019	365	3/21/2020			7017 2400 0000 7831 4008	Unknown	4/4/2019		
FOUO 84	3275 NW 36TH ST MIAMI FL 33142	BP 36TH STREET PROPERTY INC	3031210140210	INDUSTRIAL	AUTOMOTIVE OR MARINE	\$ -	NO		YES	5885	3/21/2019	365	3/21/2020		F2015000542 (Unsafe Structure)	7017 2400 0000 7831 4015	No Date of Signature	4/4/2019	9010 WORK DONE WITHOUT PERMIT OR WITH EXPIRED PERMIT: SEC. 8-5 (a)(3) AND 8-5 (b)(3)(i) CODE OF MIAMI-DADE COUNTY AND THE FLORIDA BUILDING CODE 9020 FAILURE TO OBTAIN 40 YR. BUILDING RE-CERTIFICATION: SEC. 8-11 (f) CODE OF MIAMI-DADE COUNTY AND THE FLORIDA BUILDING CODE 9015 DANGEROUS TO HUMAN LIFE AND WELFARE: SEC. 8-5 (a)(2) CODE OF MIAMI-DADE COUNTY AND THE FLORIDA BUILDING CODE	
FOUO 34	3200 NW 37 ST MIAMI FL 33412	O REILLY AUTOMOTIVE STORES INC	3031210140290	INDUSTRIAL	AUTOMOTIVE OR MARINE	\$ 6,737.36	YES	WAREHOUSE	YES	5886	3/21/2019	365	3/21/2020	C2019151023 - P2019033962	F2018004644 (Unsafe Structures)	7017 2400 0000 7831 4022	No Date of Signature	4/4/2019	9020 FAILURE TO OBTAIN 40 YR. BUILDING RE-CERTIFICATION: SEC. 8-11 (f) CODE OF MIAMI-DADE COUNTY AND THE FLORIDA BUILDING CODE 9007 THE ELECTRICAL OR MECHANICAL INSTALLATIONS OR SYSTEMS CREATE A HAZARDOUS CONDITION: SEC. 8-5 (b)(2)(v) CODE OF MIAMI-DADE COUNTY AND THE FLORIDA BUILDING CODE 9010 WORK DONE WITHOUT PERMIT OR WITH EXPIRED PERMIT: SEC. 8-5 (a)(3) AND 8-5 (b)(3)(i) CODE OF MIAMI-DADE COUNTY AND THE FLORIDA BUILDING CODE	
FOUO 47	3211 NW 37 ST MIAMI FL 33412	NIBERTO L MORENO TRS NIBERTO MORENO TRUST	3031210140330	INDUSTRIAL	WAREHOUSE	\$ 409.36	YES	STORE	YES	5887	3/21/2019	365	Mar-20	C2019209278 - P2019081284		7017 2400 0000 7831 4039	3/27/2019	4/4/2019		
FOUO 45	3235 NW 37 ST MIAMI FL 33412	ROJASFANK CORPORATION	3031210140350	INDUSTRIAL	WAREHOUSE	\$ 583.97	YES	WAREHOUSE	YES	5888	3/21/2019	365	3/21/2020							
FOUO 35	3245 NW 37 ST MIAMI FL 33412	MONSTER VENTURES LLC	3031210140360	INDUSTRIAL	MANUF-FOOD PROCESSING	\$ 17,640.00	YES	WAREHOUSE	YES	5889	3/21/2019	365	3/21/2020			7017 2400 0000 7831 4053	4/1/2019	4/4/2019		
FOUO 21	3271 NW 37 ST MIAMI FL 33412	38 MIAMI INVESTMENTS LLC	3031210140390	INDUSTRIAL	WHOLESALE OUTLET	\$ 504.00	YES	WAREHOUSE	YES	5890	3/21/2019	365	3/21/2020			7017 2400 0000 7831 4060	3/27/2019	4/9/2019		
FOUO 23	3820 NW 32 AVE MIAMI FL 33412	LR & EA LLC	3031210140620	INDUSTRIAL	MANUF-FOOD PROCESSING	\$ 21,391.44	YES	VEHICLE PAINT	YES	5891	4/9/2019	90	7/8/2019			7017 2400 0000 7831 8129	4/17/2019	5/1/2019		
FOUO 24	3816 NW 32 AVE MIAMI FL 33412	ELLEND AND EDDY INVEST CORP.	3031210140630	INDUSTRIAL	WAREHOUSE	\$ 613.09	YES	WAREHOUSE	YES	5892	4/11/2019	365	4/11/2020			7017 2400 0000 7831 8136	4/17/2019	5/1/2019		
FOUO 29	3812 NW 32 AVE MIAMI FL 33412	MICHAEL C GARDNER	3031210140640	INDUSTRIAL	WAREHOUSE	\$ 610.51	YES	WAREHOUSE	YES	5893	4/11/2019	365	4/11/2020	C2020102449 P2020055310		7017 2400 0000 7831 8143	No Date of Signature	4/23/2019		
FOUO 30	3808 NW 32 AVE MIAMI FL 33412	3808 PROP LLC	3031210140650	INDUSTRIAL	WAREHOUSE	\$ -	NO		YES	5894	4/11/2019	365	4/11/2020		#20200201375	7017 2400 0000 7831 8150	4/17/2019	4/23/2019	105.1 VIOLATION(S): Installation of plumbing pump system connected to well, mechanical duct work, and electrical circuit for well pump inside warehouse area and Electrical Service.	
FOUO 39	3900 NW 32 AVE MIAMI FL 33412	FIORELLA PERFUMES CORP	3031210140680	INDUSTRIAL	WAREHOUSE	\$ -	NO		YES	5895	4/11/2019	365	4/11/2020		F2011111458 (Unsafe Structure)				9010 WORK DONE WITHOUT PERMIT OR WITH EXPIRED PERMIT: SEC. 8-5 (a)(3) AND 8-5 (b)(3)(i) CODE OF MIAMI-DADE COUNTY AND THE FLORIDA BUILDING CODE 40 year Certified issues 12/30/19	
FOUO 38	3904 NW 32 AVE MIAMI FL 33412	SAMUEL T VIVANO III SARA V ROLLEY	3031210140690	INDUSTRIAL	WAREHOUSE	\$ -	NO		YES	5896	4/25/2019	90	7/24/2019			7017 2400 0000 7831 8341	5/6/2019	5/14/2019		
FOUO 32	3908 NW 32 AVE MIAMI FL 33412	SAMUEL T VIVIANO III SARA V ROLLEY	3031210140700	INDUSTRIAL	WAREHOUSE	\$ -	NO		YES	5897	4/17/2019	365	4/17/2020		#20200201298 & #20200201299	7017 2400 0000 7831 8174	4/25/2019	5/6/2019	Missing ground electrode at electric service. SEVERAL UNFIRED PRESSURE VESSELS (AIR COMPRESSORS) INSTALLED IN WAREHOUSES WITHOUT THE REQUIRED PERMITS	
FOUO 31	3914 NW 32 AVE MIAMI FL 33412	SEDINA 3914 LLC	3031210140710	INDUSTRIAL	MANUF-FOOD PROCESSING	\$ 610.51	YES	WAREHOUSE	YES	5898	4/25/2019	365	4/25/2020			7017 2400 0000 7831 8334	No Date of Signature	5/6/2019		

Table with 17 columns: Folio, Address, Owner, Folio Number, Property Type, TYPE OF USE/PTXA, SWR CC'S, ACCOUNT IN CC&B, TYPE OF ACCT, NORC Letter Sent, NORC No., Date Sent, 90 or 365 days to connect, Connection deadlines, Connected, Violation Number & Type, Certified Receipt Confirmation Number (USPS), C. Date of Delivery, RER Received C Returned Card, Notes.

Color Code: Vacant Land or no property to connect (pink), New connection since last update (green)