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VIA ELECTRONIC CORRESPONDENCE

January 26, 2021

CCN: 63624
File No: 8.DC.20.33

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Attn: Compliance/Enforcement Section
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**RE: Consent Decree (Case: No. 1:12-cv-24400-FAM),
Reference DOJ Case No. 90-5-1-1-4022/1,
Section IX – Reporting Requirements, Paragraph 33 – Semi-Annual Reports – 2020
Semi-Annual Report No. 2**

Dear Sir/Madam:

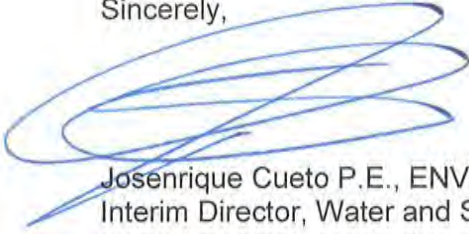
In accordance with the provisions of Paragraph 33 of the above referenced Consent Decree, on behalf of Miami-Dade County, the Water and Sewer Department (WASD) submits to both the United States Environmental Protection Agency (EPA) and the State of Florida Department of Environmental Protection (FDEP) the 2020 Semi-Annual Report No. 2. The report includes the progress made in implementing the requirements of the aforementioned Consent Decree during the period of time from July 1, 2020 through December 31, 2020. The report also includes the anticipated work to be completed over the next two calendar quarters through June 30, 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) 552-8120.

Sincerely,



Josenrique Cueto P.E., ENV SP, LEED® Green Associate
Interim Director, Water and Sewer Department

Attachment: 2020 Semi-Annual Report No. 2

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2020 Semi-Annual Report No. 2 (Thirteenth Semi-Annual Report)

July 1, 2020 through December 31, 2020

Prepared for

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

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

Prepared by

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



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Acronyms and Abbreviations

AASIS	Active As-built Supplemental Information Systems
AC	Asbestos Cement
BODR	Basis of Design Report
CD	Consent Decree
CDWWTP	Central District Wastewater Treatment Plant
CIP	Capital Improvement Project
CIPP	Cured in Place Pipe
CMOM	Capacity, Management, Operations and Maintenance
County	Miami-Dade County
COVID-19	Novel Coronavirus Disease 2019
DOJ	Department of Justice
EFT	Electronic Funds Transfer
EPA	Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
FM	Force Main
FMOPMARP	Force Main Operations, Preventative Maintenance and Assessment/Rehabilitation Program
FM R/R P	Force Main Rehabilitation/Replacement Program
FOG	Fats, Oils and Grease
FSE	Food Service Establishments
GDO	Grease Discharge Operations
GIS	Geographic Information System
GPD	Gallons per Day
GPM	Gallons per Minute

Acronyms and Abbreviations (continued)

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

Acronyms and Abbreviations (continued)

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 (July 1, 2020 through December 31, 2020), and also provides projections for significant projects and activities anticipated to be completed in the next two (2) calendar quarters (January 1, 2021 through June 30, 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 one (1) Appendix D Capital Improvement Projects (CIP): 1) CD CIP 3.6 – Disinfection at North District Wastewater Treatment Plant (NDWWTP).

In accordance with Section IX, Paragraph 52 of the CD, on May 5, 2020, the County notified EPA and FDEP of a Delay Notification for CD 3.6 – Disinfection due to delays during the construction phase associated with multiple unforeseen conditions with the existing underground utilities, complexity of the electrical and mechanical switchover to the new electrical building, and impacts due to Novel Coronavirus Disease 2019 (COVID-19) Pandemic that affected the availability of labor, professional services, and materials. On September 9, 2020, the County provided a Failure to Meet the Compliance Date Notification for CD CIP 3.6 to EPA and FDEP. The compliance date for this project was September 9, 2020, currently, the County anticipates being able to reach construction completion in 2021.

In accordance with Section IX, Paragraph 52 of the CD, on May 5, 2020, the County notified EPA and FDEP of the Force Majeure Delay Notification for CD CIP 5.3 – Upgrade of PS 0692 due to delays occurring in the execution of this project during the construction phase including Force

Majeure COVID-19 impacts. On June 16, 2020, the County notified EPA and FDEP of the Failure to Meet Compliance Date for CD CIP 5.3 and provided an anticipated completion date of December 31, 2020. The compliance date for this project was June 17, 2020 and the project reached construction completion on November 17, 2020. The County submitted the Completion notification on November 20, 2020.

On June 25, 2020, the County electronically notified the EPA that the preparation of the Third Annual FOG Control Program Review Report was affected by COVID-19 impacts. The County submitted a Delay Notification to EPA and FDEP on July 21, 2020. The County submitted the Third Annual FOG Control Program Review Report on September 29, 2020.

The County continues to be fully engaged with the successful implementation and compliance of the CD. First, with the continued development and implementation of the nine new CMOM 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 \$1.948 billion, and the Supplemental Environmental Project (SEP) included in Appendix E. As of this reporting period, forty-five (45) projects with a total cost of \$511.9 million have reached substantial completion and thirty-six (36) projects with an approximate total cost of \$1.42 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 7).

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 Delay Notification for Third Annual FOG Control Program Review Report	Section XI, para. 52 & Section XVII, para. 77	7/21/2020	7/21/2020	Yes
Post Delay Notification for Third Annual FOG Control Program Review Report in PDR	Section V, para. 9	1 business day after submittal	7/22/2020	Yes
Submit 2020 Quarterly Report No. 2	Section IX, para. 32	7/30/2020	7/30/2020	Yes
Post 2020 Quarterly Report No. 2 in PDR	Section IX, para. 36	1 business day after submittal	7/30/2020	Yes
Submit 2020 Semi-Annual Report No. 1	Section IX, para. 33	7/30/2020	7/30/2020	Yes
Post 2020 Semi-Annual Report No. 1 in PDR	Section IX, para. 36	1 business day after submittal	7/30/2020	Yes
Submit Payment of FDEP demand for Stipulated Penalties (2019) Letter	Section X, para. 42(a) and Order Modifying Section X	Within 30 days of receipt and time extension (8/3/2020)	8/13/2020	Yes
Post Payment of FDEP demand for Stipulated Penalties (2019) Letter in PDR	Section V, para. 9	1 business day after submittal	8/13/2020	Yes
Submit Potential Force Majeure due to Hurricane Isaias	Section XI, para. 52 & Section XVII, para. 77	8/13/2020	8/13/2020	Yes

Table 1-1 Completed CD Projects, Activities, Milestones, and Deliverables				
CD Projects, Activities, and Milestones	CD Reference	CD Deadline	Completion or Submittal Date	CD Compliant (Yes/No)
Post Potential Force Majeure due to Hurricane Isaias in PDR	Section VI, para. 19(i)	1 business day after submittal	8/13/2020	Yes
Submit Abeyance of Requirements for FOG Control Program	Section XI, para. 52 & Section XVII, para. 77	8/27/2020	8/27/2020	Yes
Post Abeyance of Requirements for FOG Control Program in PDR	Section VI, para. 19(i)	1 business day after submittal	8/27/2020	Yes
Submit Failure to Meeting Compliance Date and Project Update for CD CIP 3.6 Disinfection	Section XI, para. 52 & Section XVII, para. 77	9/9/2020	9/9/2020	Yes
Post Failure to Meeting Compliance Date and Project Update for CD CIP 3.6 Disinfection in PDR	Section V, para. 9	1 business day after submittal	9/9/2020	Yes
Submit Potential Delay Notification Letter for CD CIP 2.15 (3) – Plant 2 Digesters Cluster 2	Section VI, para. 19(i)	9/10/2020	9/10/2020	Yes
Post Potential Delay Notification Letter for 2.15 (3) – Plant 2 Digesters Cluster 2 in PDR	Section V, para. 9	1 business day after submittal	9/10/2020	Yes
Submit Revised Abeyance of Requirements for FOG Control Program	Section XI, para. 52 & Section XVII, para. 77	9/22/2020	9/22/2020	Yes
Post Abeyance of Requirements for FOG Control Program in PDR	Section VI, para. 19(i)	1 business day after submittal	9/22/2020	Yes
Submit Third Annual FOG Control Program Review Report	Section VI, para. 19(a)	6/30/2020	9/29/2020	Yes
Post Third Annual FOG Control Program Review Report in PDR	Section IX, para. 36	1 business day after submittal	9/29/2020	Yes
Submit Completion Notification for CD CIP 4.9 – Asbestos Cement Force Main	Section IX, para. 19(i)	10/17/2020 (Project Compliance Date)	10/7/2020	Yes
Post Completion Notification Letter for CD CIP 4.9 – Asbestos Cement Force Main in PDR	Section V, para. 9	1 business day after submittal	10/7/2020	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 Potential Delay Notification Letter for CD CIP 2.1 – Electrical Improvements	Section VI, para. 19(i)	10/13/2020	10/13/2020	Yes
Post Potential Delay Notification Letter for 2.1 – Electrical Improvements in PDR	Section V, para. 9	1 business day after submittal	10/13/2020	Yes
Submit 2020 Quarterly Report No. 3	Section IX, para. 32	10/30/2020	10/30/2020	Yes
Post 2020 Quarterly Report No. 3 in PDR	Section IX, para. 36	1 business day after submittal	10/30/2020	Yes
Submit Potential Force Majeure due to Tropical Storm Eta	Section XI, para. 52 & Section XVII, para. 77	11/20/2020	11/20/2020	Yes
Post Potential Force Majeure due to Hurricane Isaias in PDR	Section V, para. 9	1 business day after submittal	11/20/2020	Yes
Submit Completion Notification for CD CIP 5.3 – Upgrade of PS 0692	Section IX, para. 19(i)	11/17/2020 (Project Compliance Date)	11/20/2020	No
Post Meet Completion Notification Letter for CD CIP 5.3 – Upgrade of PS 0692 in PDR	Section V, para. 9	1 business day after submittal	11/20/2020	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 Fourth Annual FOG Control Program Review Report	Section VI, para. 19(a)	6/30/2021	6/30/2021
Post Fourth Annual FOG Control Program Review Report in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
Submit 2020 Quarterly Report No. 4	Section IX, para. 32	1/31/2021	1/31/2021
Post 2020 Quarterly Report No. 4 in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
Submit 2020 Semi-Annual Report No. 2	Section IX, para. 33	1/31/2021	1/31/2021

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
Post 2020 Semi-Annual Report No. 2 in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
Submit 2021 Quarterly Report No. 1	Section IX, para. 32	3/31/2021	3/31/2021
Post 2021 Quarterly Report No. 1 in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
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	4/30/2021
CD CIP 3.6 Disinfection at NDWWTP	Section VI, para. 19(i)	9/9/2020	6/28/2020

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

Table 1-3 Issues Log			
Item	Date	Description	Resolution/Clarification/Decision
1	7/20/2017	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.”	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. 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

Table 1-3 Issues Log

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. 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.
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.
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 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.

Item	Date	Description	Resolution/Clarification/Decision
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.
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.

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 due by 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 Miami-Dade agree to consider whether to discontinue the Semi-Annual Reports. If the United States, FDEP and Miami-Dade agree to discontinue the Semi-Annual Reports, such modification shall be considered a non-material change to this CD pursuant to Section XX (Modification); and the information required in Subparagraphs 33(a) through (d) in the CD shall then be included in each Annual Report submitted pursuant to Paragraph 34 of the CD and shall cover the applicable Calendar Year rather than two (2) Calendar Quarters.

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 currently has no access to sanitary sewers and relies 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 Wastewater Treatment Plants (WWTPs).

The EPA, FDEP, and Miami-Dade County acknowledged that the County's 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.

- At the CDWWTP work is progressing on drilling the first three (3) new Class I municipal injection wells and is progressing ahead of schedule. Two (2) more wells are designed and permit applications are being processed. The drilling contract will be modified in the future for a total of nine (9) new municipal wells. WASD received approval to use a new industrial well system from the Underground Injection Control (UIC) section at FDEP and the new system started operation full time in the spring 2020 (2 wells). 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. WASD is in the process of refining the Conceptual Designs and contracting with design consultants for the process and site plan improvements for the OOL projects.
- 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. The municipal wells at NDWWTP are designed and permitted (UIC). Procurement of temporary electrical connections is underway so drilling work can begin by mid-year (2021). The substantial permitting required for the site development has been initiated. The existing four (4) injection wells are functioning near maximum capacity peak flow rate. Substantial diversions from the outfall are being achieved (50 to 70 percent of daily flow). The high-level disinfection and injection well pump station designs are about 5 percent in progress. The design for the site preparation and electrical buildings are about 10 percent complete.

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 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 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 coordination with IT to automatically generate Notification Letters to all Utilities and Private systems when they fail to submit ETs.	3.1. Implementing the automatic generation of Moratorium / Enforcement letters when utilities and Private systems when they 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 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 IN every time a Triplicate Reading is detected.
			4.1 Initiated coordination with IT to automatically generate Notification Letters to all Utilities and Private systems when report TRIPLICATE ET readings.	4.1 Implementing the automatic generation of Moratorium / Enforcement letters when utilities and Private systems report TRIPLICATE readings.
			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. 6.1 Completed automatic de-allocations of reserved flows for projects that are 10 yrs or more in the system.	6. Continue manually de-Allocations for all municipalities according to their completed monthly reports submitted to RER-DERM. 6.1 Continue automatic de-allocations of reserved flows for projects that are 10 yrs or more in the system.

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.	<p>7. Due the COVID-19 the 26th and the 27th Quarterly Utility Round Table (URT) Meetings were held virtually via Microsoft Teams on July and Nov, respectively.</p> <p>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.</p> <p>9. Continued to review Sanitary Sewer System Evaluations or Amendments as submitted by the utilities. PS moratoriums were reverted as the utilities demonstrated compliance with the SSES, Code requirement of 5,000 GPDIM.</p> <p>9.1 Continued the update of the 3rd Cycle SSES Requirements / Guidelines due by 11/12/2022 for distribution to all utilities</p> <p>10. Completed the reviews of WASD As-Built / Atlas from the Utilities. In last URT meeting the Utilities were notified that a more detailed review of the submittals was to be performed. However, due to COVID-19 reviews were placed on hold.</p> <p>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.</p>	<p>7. Will hold two (2) Virtual Quarterly Utility Round Table (URT) Meetings with all Utilities and/or Utility Representatives on February and May.</p> <p>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.</p> <p>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.</p> <p>9.1 Complete the update of the 3rd Cycle SSES Requirements / Guidelines due by 11/12/2022 for distribution to all utilities</p> <p>10. Continue the review the GIS WASD As-Built / Atlases submitted by each Utility in January-2021 to assure compliance with Code requirements. Atlases are used by staff to determine Adequate Pumping, Transmission and Treatment capacity.</p> <p>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.</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(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.	<p>12. Continued Electronic reviews for construction permits pertaining to new or upgrades of Domestic Wastewater Collection and transmission systems under the jurisdiction of the County's WASD.</p> <p>12.1 Due to COVID-19, electronic reviews for all other municipal utilities than WASD was established. All reviews for new or upgrades of Domestic Wastewater Collection and transmission systems were done electronically since the County started "work from home" program in April-2020.</p> <p>13. Continued the implementation of CONCURRENT review process for new or upgrades of Domestic Wastewater Collection and transmission systems under the jurisdiction of the County's WASD.</p> <p>14. Established a priority list with the IT section to create a WEB Application to allow Building Officials to report the monthly De-Allocation report.</p>	<p>12. Continue electronic reviews for new construction permits or upgrades of Domestic Wastewater Collection and transmission systems for ALL utilities in the County.</p> <p>13. Continue with CONCURRENCY reviews for new or upgrades of Domestic Wastewater Collection and transmission systems under the jurisdiction of the County's WASD.</p> <p>14. Continue working with IT Department to prioritize the WEB Application to allow Building Officials to report the monthly De-Allocation report.</p>
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 and SCADA Watch was procured.	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(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>Completed PSIP updates for PS1022, PS0698, PS1065, PS0480, PS0596, & PS0021</p> <p>Added private pumpstation PPS01303 and relevant FM network and inflow to model</p> <p>Added private pumpstation PPS01014 discharge FM diameter from 6" to 8"</p> <p>Updated discharge FM from PS0016 from 4" to 6" in diameter</p> <p>Added private pump stations PPS00651 & PPS00419 along with relevant discharge FM and inflow</p> <p>Phased off 2020 network and updated the same as existing network</p> <p>The CD PMCM team delivered an updated version of the WASD WCTS effective model to WASD Planning Division, which incorporated all the changes listed above. Pump Station Dashboard that provides a detailed summary/overview of the pump station results for existing scenario annual average daily flow condition was delivered along with the effective model.</p>	<p>Continue efforts to update hydraulic model with information available for improvement projects associated with Consent Decree, Pump Station Improvement Program, GIS Updates, as well as New Development Projects in an effort to maintain the most up to date projection scenarios for years 2025, 2035, and 2040 in the WASD hydraulic model.</p> <p>Update Model Inflow Hydrographs based on 2020 SCADA data</p> <p>Update the Model with User Defined Flags</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, 2020.

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 coordination with IT to automatically generate Notification Letters to all Utilities and Private systems when they fail to submit ETs.	3.1. 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.
			7. Issued enforcement letters or 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. Continue to issue enforcement letters or Requests for Information (RFIs) for SSO events reported or documented by DERM personnel, as needed. 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. Continued coordination with City of Opa-Locka management regarding the Consent Agreement (CA) completed and signed by the City officials for repeat SSOs during previous periods. The CA outlined actions to prevent SSOs and to complete needed rehabilitation to bring the sanitary sewer collection/transmission system into full compliance.</p>	<p>10. Continue coordination with the DERM Enforcement Group to assure the Volume Sewer Customer Utility of Opa-Locka complies with the CA specific requirements and deadlines to bring the utility into full compliance.</p>
			<p>11. No additional monitoring of the WCTS of Opa-Locka to assure system is operating under normal conditions was needed for this reporting period.</p>	<p>11. If needed, re-establish a close monitoring of the WCTS of Opa-Locka to assure system is operating under normal conditions.</p>
			<p>12. Due to COVID-19 Virtual Meetings were held with the Utility/Municipal Officials during this period.</p>	<p>12. As needed, schedule additional meetings with the Utility/Municipal officials.</p>
			<p>13. Continued automatic De-Allocations of reserve flows that have been in the database for 10 years or more. This process provided additional flow capacity for new/future developments.</p>	<p>13. Continue to De-Allocate reserved flows that have been in the database for 10 years or more. This process provided additional flow capacity for new/future developments.</p>
			<p>14. All Volume Sewer Customer utilities and/or representatives were invited to the Virtual URT Meeting on November.</p>	<p>14. Continue to use the Virtual URT meeting to share with all Volume Sewer Customer utilities 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.	15. Reviewed Annual and Semi-annual reports submitted by the Volume Sewer Customer Utilities, which include Illicit Stormwater Connections, SSES and CMOM work related reports.	15. Review the Annual and semi-annual reports as submitted by the Volume Sewer Customer Utilities, for Illicit Stormwater Connections, SSES and CMOM work related reports.
			16. Compiled notes from the reviews completed of all Volume Sewer Customer Utilities about the GIS WASD As-Built / Atlases submitted.	16. 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.
			17. Completed an inspection program of all public sanitary sewer pump stations in the County. The inspections included coordination with all utilities when requested to respond to issues encountered during the inspections.	17. Plan next inspection program of all public sanitary sewer pump stations.
			18. Due to COVID-19 and staffing, reviews of the Sanitary Sewer System Model Survey/Report received from the Volume Sewer Customer Utilities were not completed.	18. Complete review of the Sanitary Sewer System Model Survey/Report received from the Volume Sewer Customer Utilities. Enforcement actions to be implemented as necessary and depending on COVID-19 and staffing.
			19. 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 were not completed.	19. Complete the review of televising reports received from the utilities having sanitary sewer collection and transmission systems within well field protection areas. Enforcement actions to be implemented as necessary and depending on COVID-19 and staffing.

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 "Did You Know" flyers. Flyers were distributed by DERM Plan Review, FOG Technicians/Inspectors, and Liquid Waste Transporters.	2. Update and distribute Outreach flyers. Flyers will be distributed by DERM Plan Review, FOG Technicians/Inspectors, and Liquid Waste Transporters. Reevaluate our outreach for FSE in order to adapt to new challenges.
			3. Continued FOG Outreach, including workshops. FOG and Utility Round Table meetings were 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 93.9% 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 (6.1%) 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.	8. These inspections at the South District Wastewater Treatment Plant have been put on hold because of COVID-19. They will remain on hold at least for the next six months depending on COVID.
			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 3rd 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 4th FOG Control Program Annual Review Report.
			15. Developed or approved training programs for 2020 permitting cycle for LWTs and Disposal Facilities. Pending implementation by WASD.	15. Continue developing or approving training programs for 2021 permitting cycle for LWTs and Disposal Facilities.
			16. Continued the Public Outreach program in collaboration with MDC-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 MDC-WASD. Implementation of the Residential Outreach program due by March 5, 2020 has been impacted by COVID-19. Its implementation might still be delayed by COVID-19.
		17. Contacted local business improvement districts (BIDs) to improve the outreach for businesses.	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 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 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 7,434 GDO permitted facilities.	21. Plan to implement annual routine inspections to the current 7,434 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 3,766 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.	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. SPIDER manhole inspection solutions has been implemented and is currently being reconfigured to meeting changing procedural requirements.	1. Updates will continue as part of the GIS data maintenance process. 2. GIS integration in progress with updates to continue. The GIS integration of all projects conveyed and activated are being tracked. The metrics will be reported in the 2021 Annual Report.
			2. Streamlining the manual as-built to GIS process to satisfy 90 day requirement – Completed. Improvements continue as opportunities arise.	The GIS integration of all projects conveyed and activated are being tracked. The metrics will be reported in the 2021 Annual Report.
			3. GIS to Hydraulic Model Integration to satisfy 90 day requirement from GIS to Model – Completed. Updates continue	The GIS Hydraulic Model integration of all projects conveyed and activated are being tracked. The metrics will be reported in the 2021 Annual Report.
			4. GIS Training Refresher Program – paused due to covid19.	Onsite training courses have been paused due to COVID19 restriction protocol. Currently working on a virtual training process.
			5. Electronic As-Built Submittal - Completed.	Enhancing processes, including CAD, to facilitate automate CAD to GIS conversion. As-built LISP script validation completed. CAD auto-convert to GIS format completed. Enterprise GIS and eBuilder integration in progress.
			6. eBuilder CIP GIS integration	Enterprise GIS web editing for Capital Improvement Projects (CIP) is currently in the testing phase. DERM proximity alerts will be integrated to this solution.

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.	
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 in on going 3. CCTV inspection for year 1 of the 10 years cycle completed	Work on the program will include the activities listed in the CMOM Implementation Schedule will continue.
19(f)	Pump Station Operations and Preventative Maintenance Program	The Pump Station Operations and Preventative 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: 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	1. Will begin implementation of Phase #1 of the upgrades in division's assets management system (EAMS). This process includes testing and training for personnel: a. Problem, Failure, Action, Cause (PFAC) codes - Process for requesting additional (PFAC) codes or changes, post-implementation, will be via an EAMS Enhancement Request. b. Revision of user roles for Asset Admin and Planners/Schedulers - PM creation and update - Equipment creation, update and structure changes - Custom Fields and Equipment Classes c. Equipment Update Process (Field units and Asset/Planners roles) d. Vendor Repair Process e. Non-Work Order Time Entry 2. Will begin planning and implementation of Phase #2 of the upgrades in division's assets management system (EAMS). This phase will include the review and revision of existing Equipment and Preventative Maintenance schedules. EAMS team will also provide a demo of the PM Checklist process.
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. Valve exercise program is ongoing. 3. ARVs maintenance program is ongoing.	Work on the program will include the activities listed in the CMOM Implementation Schedule will continue.

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(h)	WWTP Operations and Maintenance Program	The WWTP Operations and Maintenance Program is being developed in accordance with Paragraph 19(h) in the CD. This program will facilitate proper operation, maintenance and equipment replacement activities associated with the WWTPs.	<p>Work on the Program was ongoing:</p> <ol style="list-style-type: none"> Continued random collection of hauled waste as a standard practice. The random sample collection practice and procedures used at the SDWWTP are in general 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. RER-DERM/WASD Coordination Meetings were held virtually via Microsoft Teams on June 3rd, 2020, September 2nd, 2020 and December 2nd, 2020 to discuss Hauled Waste Program and any issues or concerns related to illicit hauled waste or discharges to the plant or collection system. Additionally, the number of samples being collected randomly was discussed and identified as not meeting the percentage included in the Hauled Waste Guidance Manual. Quarterly Operations training has been sheduled 	<p>Work on the program will include the activities listed in the CMOM Implementation Schedule will continue.</p> <ol style="list-style-type: none"> Further discussion and planning will be required to finalize sampling plan modification and submittal to EPA for review and approval. RER-DERM/WASD Coordination Meeting will be held each Quarter to discuss Hauled Waste Program issues or concerns. Next RER-DERM/WASD Coordination Meetings will be held on February 17th, 2021 and May 12th, 2021 to discuss Hauled Waste Program and any issues or concerns related to illicit hauled waste or discharges to the plant or collection system. Plant Operations will hold Quarterly Training in 2021. Training will cover the Septic Receiving Building Operation, Sampling protocols, Review of issues or problems, and Discussions on how to identify illegal discharges.
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 September 2020 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 continued. 1.3(3) Design for oxygenation train - SS 5/6 and SS 15/16 continued.	1.3(1) Structural Rehabilitation of the oxygen trains has been completed. 1.3(2) Permitting for Electrical Building Expansion and mixer upgrade will be completed. Procurement will commence. 1.3(3) Design for oxygenation train - SS 5/6 and SS 15/16 will be completed. Permitting will commence.
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.	Permitting completed. Procurement completed.	Construction will commence.
1.5	Effluent Pump Station	The SDWWTP Effluent Pump Station project will be performed pursuant to Paragraph 19(i) and Appendix D. This project involves an upgrade of the existing obsolete pump control systems, upgrade of the pumps drives and motors, and structural rehabilitation of pump station wet well, i.e. chambers 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.	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	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) Procurement (Re-Bid) completed. 1.11(1.2) Award was rescinded due to unacceptable bid. Procurement (Re-bid) to start. 1.11(2) Construction continued.	1.11(1.1) Construction will commence. 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.	<p>1.12(1) Actuator Replacement reached substantial completion on June 5, 2018.</p> <p>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.</p>	<p>1.12(1) N/A</p> <p>1.12(2) Structural rehab. of contact chamber #2 will continue and be completed.</p>

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> <p>2.1(1) Construction Substations 1 & 2 Completed on May 5, 2016.</p> <p>2.1(2) Construction continued.</p> <p>2.1(3) Construction continued.</p> <p>2.1(4) Construction continued.</p> <p>2.1(5) Construction continued.</p> <p>2.1(6) Construction was completed on October 4, 2019.</p> <p>2.1(7) Procurement was completed and construction commenced.</p>	<p>2.1(1) N/A</p> <p>2.1(2) Construction will continue.</p> <p>2.1(3) Construction will continue.</p> <p>2.1(4) Construction will continue.</p> <p>2.1(5) Construction will be completed.</p> <p>2.1(6) N/A</p> <p>2.1(7) Construction will continue.</p>
2.2	Building Improvements	<p>The CDWWTP Building Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. The project involves the repair of maintenance, operations control and administration buildings at the plant. It includes the repair of the roofs and the staff facility. This project has been split into 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> <p>2.2(1a) Completed on June 1, 2015.</p> <p>2.2(1b) Construction was completed on January 17, 2018.</p> <p>2.2(1c) Completed on October 19, 2016.</p> <p>2.2(2) Completed on January 17, 2020.</p>	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.	Construction for Train #2 structural rehab completed on August 20, 2020. Procurement for Train #4 structural rehab completed and NTP issued on November 2, 2020. Construction commenced.	Construction for Train #2 structural rehab completed. Procurement for Train #4 structural rehab construction 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) Design and permitting was completed. Procurement commenced 2.7(2) Mechanism upgrade work postponed for Tank #3 due to rephasing. 2.7(3) Structural rehabilitation of Tank #3 postponed due to rephasing.	2.7(1) Procurement will continue. 2.7(2) Construction will commence. 2.7(3) Procurement will commence.
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. 2.8(3) Procurement for Tank #7 and structural rehab of Tank #10 continued.	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 will be completed and construction will commence. Tank #10 construction will be completed
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.	Permitting was completed. Procurement commenced.	Procurement will be completed.
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.	Construction continued.	Construction will 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
2.12	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.	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.	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.
2.15	Digesters Plant 2	The CDWWTP Digesters Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the complete rehabilitation of sludge digester clusters, i.e. roofs, concrete structures, recirculation and transfer pumps, mixers, and electrical pumps. This will prevent the loss of digestion capacity and the decline in biogas/methane production for power generation. In addition, it will decrease the amount of unstable sludge that will require landfill disposal. This project has been split into 4 different child projects; 2.15(1) refers to digesters in cluster 1; 2.15(2) refers to digesters in cluster 2; 2.15(3) refers to digesters in Cluster 3; and 2.15(4) refers to digesters in Cluster 4.	2.15(1) Construction continued. 2.15(2) Construction continued. 2.15(3) Procurement temporarily suspended pending Cluster 1 or 2. 2.15(4) Child project deleted as approved by EPA.	2.15(1) Construction will continue. 2.15(2) Construction will continue. 2.15(3) Procurement will resume.

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
2.16	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.	Design-Build Construction will continue.
2.17	Chlorination Facilities	The CDWWTP Chlorination Facilities project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the design and construction of a new bulk sodium hypochlorite storage and dosing system in separate outdoor structures to replace the existing chlorine gas system.	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

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
2.21	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 will be completed.
2.23	O ₂ Plant Process Controls Phase 2	The CDWWTP O ₂ Plant Process Controls project is being performed pursuant to Paragraph 19(i) and Appendix D. Existing oxygen production systems are either failing or obsolete. The purpose of this project is to replace existing oxygen production systems.	Construction was completed on April 25, 2016, ahead of the CD compliance date March 9, 2017.	N/A
2.24	Gas Monitoring	The CDWWTP Gas Monitoring project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to monitor gas levels and place alarms in hazardous areas.	Construction was completed on September 29, 2017.	N/A
2.25	Ventilation Improvements	The CDWWTP Ventilation Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to improve ventilation in hazardous areas. This project schedule has been broken down into multiple components to more accurately reflect the way the work is being executed: 1) HVAC Improvements for air scrubber (Project 2.12, 2.13 and 2.16) 2) Headworks HVAC Improvements (Project 2.3/2.4). 3) Digester Control Building HVAC Improvements (Project 2.15(1)). 4) Pump Station 1 HVAC Improvements (Project 2.21). 5) Pumps Station 2 HVAC Improvements (Project 2.22).	2.25(1) Procurement continued 2.25(2) Construction was completed. 2.25(3) Construction continued. 2.25(4) Construction was completed. 2.25(5) Construction continued.	2.25(1) 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.

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
2.27	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 commenced	Procurement will continue.
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 continue.
3.5	Secondary Clarifiers	The NDWWTP Secondary Clarifiers project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of the structure of the secondary clarifiers and its mechanical and electrical systems. This project was split into 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 commenced</p>	<p>3.8(1) N/A</p> <p>3.8(2) N/A</p> <p>3.8(3) Electrical Feeders 7-8 design will be completed</p> <p>3.8(4) Construction will continue and will be completed.</p>
3.9	Flood Mitigation	<p>The NDWWTP Flood Mitigation project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to mitigate the flood potential in the Generator and Electrical Building at the NDWWTP.</p>	<p>This project was completed on June 24, 2016, ahead of the CD compliance date of August 13, 2017.</p>	N/A
3.10	Yard Piping Replacement	<p>The NDWWTP Yard Piping Replacement project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to replace the wastewater piping that interconnects unit processes throughout the plant.</p>	<p>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
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

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
5.9	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

Activity ID	Activity Name	Start *	Substantial ** Completion	EPA Compliance Date	Rainbow Layout																											
					2019				2020				2021				2022				2023				2024				2025			
					Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
WASD Consent Decree Schedule - December 2020 Update					14-Aug-09 A	27-Sep-27	27-Sep-27																									
0. General Compliance Activities					31-Mar-14 A	24-Mar-24	0. General Compliance Activities																									
Reporting Requirements					31-Mar-14 A	02-Mar-21	Reporting Requirements																									
Program Management/Construction Management Support					06-Jun-14 A	24-Mar-24	Program Management/Constructio																									
1. South District WWTP					14-Aug-09 A	04-Apr-25	16-Nov-25	1. South																								
1.01 Headworks					14-Aug-09 A	06-Nov-19 A	23-Feb-20	1.01 Headworks																								
1.02 Oxygen Production					17-Nov-14 A	09-Jan-22	25-Feb-22	1.02 Oxygen Production																								
1.03 Oxygenation Trains					02-Oct-13 A	04-Apr-25	16-Nov-25	1.03 Oxy																								
1.03 (1) - Oxygenation Trains Structural Rehab					02-Oct-13 A	31-Jul-20 A	16-Nov-25	1.03 (1) - Oxygenation Trains Structural Rehab																								
1.03 (2) - Oxygenation Trains - Mixer Upgrade/Electrical Building (OOL ST-1B)					22-Feb-16 A	04-Apr-25	16-Nov-25	1.03 (2) -																								
1.03 (3) - Oxygenation Trains - SS 5/6 and SS 15/16 (OOL ST-2D)					12-Jan-17 A	28-Feb-23	16-Nov-25	1.03 (3) - Oxygenation Trains - SS 5/6 and SS 15/16 (OOL																								
1.04 Chlorine Building					15-Aug-17 A	26-Jan-22	07-Aug-23	1.04 Chlorine Building																								
1.05 Effluent Pump Station					19-Nov-13 A	28-Oct-21	07-Apr-22	1.05 Effluent Pump Station																								
1.05 (1) Effluent Pump Station Wetwell Rehab					05-Jul-16 A	26-May-20 A	07-Apr-22	1.05 (1) Effluent Pump Station Wetwell Rehab																								
1.05 (2) Effluent Pump Station Building Improvements & Pumps 1-6 Equip.					03-Mar-16 A	28-Oct-21	07-Apr-22	1.05 (2) Effluent Pump Station Building Improvements & Pumps 1-6 Equip.																								
1.05 (3) Effluent Pump Station Electrical Equipment (Pumps 7-9)					19-Nov-13 A	23-Jan-16 A	07-Apr-22	7-9)																								
1.06 Gravity Sludge Thickeners					03-Jul-14 A	31-Dec-22	06-Jan-23	1.06 Gravity Sludge Thickeners																								
1.07 Digesters and Control Building					30-Jun-14 A	12-Jul-23	21-Nov-23	1.07 Digesters and Control Building																								
1.08 Dewatering Facility					19-Dec-14 A	31-Dec-22	06-Jan-23	1.08 Dewatering Facility																								
1.09 FOG Removal Facility					08-Jul-14 A	26-Mar-19 A	24-May-19	1.09 FOG Removal Facility																								
1.10 Odor Control					25-Jan-18 A	22-Aug-22	25-Apr-23	1.10 Odor Control																								
1.11 General Electrical					25-Oct-16 A	31-Jul-22	26-Mar-21	1.11 General Electrical																								
1.11 (1.1) SDWWTP Substations 9-12					15-Jun-17 A	30-Apr-22	26-Mar-21	1.11 (1.1) SDWWTP Substations 9-12																								
1.11 (1.2) SDWWTP Generator Repairs					25-Oct-16 A	31-Jul-22	26-Mar-21	1.11 (1.2) SDWWTP Generator Repairs																								
1.11 (2) Elect. Feeder Bldg 1 to Effluent PS 1-6 (Project 1.05(2))					24-Oct-17 A	28-Oct-21	26-Mar-21	1.11 (2) Elect. Feeder Bldg 1 to Effluent PS 1-6 (Project 1.05(2))																								
1.12 Chlorine Contact Chamber					24-Aug-15 A	15-Mar-21	18-Jun-21	1.12 Chlorine Contact Chamber																								
1.12 (1) Chlorine Contact Chamber Actuator Replacement					24-Aug-15 A	05-Jun-18 A	18-Jun-21	(1) Chlorine Contact Chamber Actuator Replacement																								
1.12 (2) Chlorine Contact Chamber Structural Rehab & Sluice Gates Replacement					05-Jul-16 A	15-Mar-21	18-Jun-21	1.12 (2) Chlorine Contact Chamber Structural Rehab & Sluice Gates Replacement																								
2. Central District WWTP					01-Mar-11 A	27-Mar-27	27-Sep-27																									
2.01 Miscellaneous Electrical Improvements					11-Jun-14 A	07-Nov-21	14-Jun-21	2.01 Miscellaneous Electrical Improvements																								
2.01 (1) Substations 1 & 2					24-Jul-15 A	05-May-16 A	14-Jun-21	2.01 (1) Substations 1 & 2																								
2.01 (2) Substations 3, 4A, 4B, 5 & 6 (Project 2.27(2))					13-Apr-15 A	18-Dec-18 A	14-Jun-21	2.01 (2) Substations 3, 4A, 4B, 5 & 6 (Project 2.27(2))																								
2.01 (3) Substations 9 & 10 (Project 2.10(1))					11-Mar-16 A	01-Mar-21	14-Jun-21	2.01 (3) Substations 9 & 10 (Project 2.10(1))																								
2.01 (4) Substations 11 & 12 (Project 2.11)					24-Aug-16 A	08-Mar-21	14-Jun-21	2.01 (4) Substations 11 & 12 (Project 2.11)																								
2.01 (5) Substations 15 & 16 (Project 2.15(1))					11-Jun-14 A	19-Apr-21	14-Jun-21	2.01 (5) Substations 15 & 16 (Project 2.15(1))																								
2.01 (6) Substations 17 & 18 (Project 2.19(2)a)					04-Jun-15 A	04-Oct-19 A	14-Jun-21	2.01 (6) Substations 17 & 18 (Project 2.19(2)a)																								
2.01 (7) Substations 7A, 8A, 9A, & 10A					17-Oct-16 A	07-Nov-21	14-Jun-21	2.01 (7) Substations 7A, 8A, 9A, & 10A																								
2.02 Building Improvements					26-Mar-14 A	17-Jan-20 A	26-Sep-19	2.02 Building Improvements																								
2.02 (1)a CD Building Improvements - Admin Asbestos Abatement					26-Mar-14 A	01-Jun-15 A	26-Sep-19	2.02 (1)a CD Building Improvements - Admin Asbestos Abatement																								
2.02 (1)b CD Administration Building Interior Improvements					26-Jan-15 A	17-Jan-18 A	26-Sep-19	2.02 (1)b CD Administration Building Interior Improvements																								
2.02 (1)c CD Misc. Roof Improvements					31-Jan-15 A	19-Oct-16 A	26-Sep-19	2.02 (1)c CD Misc. Roof Improvements																								
2.02 (2) Remodel Bathrooms, Locker Rooms & Showers					19-Dec-14 A	17-Jan-20 A	26-Sep-19	2.02 (2) Remodel Bathrooms, Locker Rooms & Showers																								
2.03 Headworks/Grit Basin Plant 1					05-Jun-14 A	07-Mar-19 A	16-Mar-19	2.03 Headworks/Grit Basin Plant 1																								
2.04 Headworks/Grit Basin Plant 2					05-Jun-14 A	13-Aug-19 A	23-Aug-19	2.04 Headworks/Grit Basin Plant 2																								
2.05 Oxygenation Trains Plant 1					01-Mar-11 A	22-Jun-18 A	12-Apr-19	2.05 Oxygenation Trains Plant 1																								
2.06 Oxygenation Trains Plant 2					01-Mar-11 A	06-Apr-21	14-Apr-22	2.06 Oxygenation Trains Plant 2																								
2.07 Secondary Clarifiers Plant 1					11-Jul-15 A	12-Sep-25	15-Aug-26	2.07 Secondary Clarifiers Plant 1																								
2.07 (1) Secondary Clarifiers Plant 1					10-May-17 A	12-Sep-25	15-Aug-26	2.07 (1) Secondary Clarifiers Plant 1																								
2.07 (2) Secondary Clarifiers Plant 1 Tank Mechanisms					11-Jul-15 A	16-Jan-25	15-Aug-26	2.07 (2) Secon																								
2.07 (3) Secondary Clarifiers Plant 1 Structural Rehab					15-Jul-15 A	02-Dec-24	15-Aug-26	2.07 (3) Seconda																								

█ Actual Work █ Procurem...

█ Summary █ Construction

█ Pre-Design █ Design-Bu...

█ Design

█ Permitting

MIAMI-DADE WATER & SEWER DEPARTMENT CONSENT DECREE PROGRAM PROJECT PHASE SUMMARY

Date	Revision	Checked	Approved
14-Jul-14	Revision 0		
16-Oct-20	Sep 2020 Update		
13-Nov-20	Oct 2020 Update		
16-Dec-20	Nov 2020 Update		
14-Jan-21	Dec 2020 Update		

Activity ID	Activity Name	Start *	Substantial ** Completion	EPA Compliance Date	Rainbow Layout																											
					2019				2020				2021				2022				2023				2024				2025			
					Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
2.08 Secondary Clarifiers Plant 2		16-Mar-16 A	11-Sep-23	01-Dec-24	2.08 Secondary Clarifiers Plant 2																											
2.08 (1) Secondary Clarifiers Plant 2		16-Mar-16 A	11-Sep-23	01-Dec-24	2.08 (1) Secondary Clarifiers Plant 2																											
2.08 (2) Secondary Clarifiers Plant 2 Tank Mechanisms		21-Nov-18 A	06-Jun-23	01-Dec-24	2.08 (2) Secondary Clarifiers Plant 2 Tank Mechanisms																											
2.08 (3) Secondary Clarifiers Plant 2 Structural Rehab		14-Jul-17 A	07-May-23	01-Dec-24	2.08 (3) Secondary Clarifiers Plant 2 Structural Rehab																											
2.09 Return Sludge PS Plant 1		10-May-17 A	12-Sep-25	15-Aug-26	2.09 Return Sludge PS Plant 1																											
2.10 Return Sludge PS Plant 2		15-Jul-15 A	11-Sep-23	01-Dec-24	2.10 Return Sludge PS Plant 2																											
2.10 (1) Return Sludge PS Plant 2 - RAS Pump		15-Jul-15 A	11-Sep-23	01-Dec-24	2.10 (1) Return Sludge PS Plant 2 - RAS Pump																											
2.10 (2) Return Sludge PS Plant 2 - RAS Line		13-Jan-16 A	07-Jul-17 A	01-Dec-24	Plant 2 - RAS Line																											
2.11 Effluent Pump Station		19-Feb-16 A	08-Mar-21	21-Jun-21	2.11 Effluent Pump Station																											
2.12 Gravity Sludge Thickeners Plant 1		02-Feb-15 A	26-Feb-23	13-Jan-23	2.12 Gravity Sludge Thickeners Plant 1																											
2.13 Gravity Sludge Thickeners Plant 2		11-Jun-14 A	26-Feb-23	13-Jan-23	2.13 Gravity Sludge Thickeners Plant 2																											
2.14 Digesters Plant 1		14-Mar-17 A	09-Aug-24	19-Jan-26	2.14 Digesters Plant 1																											
2.14.1 Cluster 1		31-Dec-20	09-Jun-24	19-Jan-26	2.14.1 Cluster 1																											
2.14.2 Cluster 2		14-Mar-17 A	09-Aug-24	19-Jan-26	2.14.2 Cluster 2																											
2.15 Digesters Plant 2		11-Jun-14 A	24-Aug-23	18-Jun-23	2.15 Digesters Plant 2																											
2.15.1 Cluster 1		11-Jun-14 A	19-Apr-21	18-Jun-23	2.15.1 Cluster 1																											
2.15.2 Cluster 2		19-Dec-14 A	20-Feb-22	18-Jun-23	2.15.2 Cluster 2																											
2.15.3 Cluster 3		13-Apr-16 A	24-Aug-23	18-Jun-23	2.15.3 Cluster 3																											
2.16 Dewatering Building		02-Feb-15 A	26-Feb-23	13-Jan-23	2.16 Dewatering Building																											
2.17 Chlorination Facilities		01-Oct-13 A	27-Jul-18 A	15-Oct-18	2.17 Chlorination Facilities																											
2.18 Odor Control Systems		06-Oct-14 A	26-Feb-23	13-Jan-23	2.18 Odor Control Systems																											
2.18 (1) Headworks Odor Controls System (Project 2.03/2.04)		06-Oct-14 A	11-Sep-19 A	13-Jan-23	2.18 (1) Headworks Odor Controls System (Project 2.03/2.04)																											
2.18 (2) Dewatering Odor Control System (Project 2.16)		01-May-15 A	26-Feb-23	13-Jan-23	2.18 (2) Dewatering Odor Control System (Project 2.16)																											
2.19 Co-Gen Improvements		22-Nov-12 A	18-Jun-21	21-May-20	2.19 Co-Gen Improvements																											
2.19 (1) Co-Gen Generator Replacement		22-Nov-12 A	27-Jan-16 A	21-May-20	2.19 (1) Co-Gen Generator Replacement																											
2.19 (2)a Co-Gen Biogas Treatment Facilities		19-Dec-14 A	18-Jun-21	21-May-20	2.19 (2)a Co-Gen Biogas Treatment Facilities																											
2.19 (2)b Co-Gen Restroom and Building Rehab		14-Apr-16 A	18-May-20 A	21-May-20	2.19 (2)b Co-Gen Restroom and Building Rehab																											
2.21 Pump Station No.1		16-Jun-15 A	19-Dec-19 A	26-Feb-21	2.21 Pump Station No.1																											
2.22 Pump Station No.2		30-Sep-14 A	02-Apr-21	25-May-19	2.22 Pump Station No.2																											
2.23 O2 Plant Process Controls Phase 2		01-Oct-13 A	25-Apr-16 A	09-Mar-17	2.23 O2 Plant Process Controls Phase 2																											
2.24 Gas Monitoring and Alarms		19-Dec-14 A	29-Sep-17 A	19-Sep-17	2.24 Gas Monitoring and Alarms																											
2.25 Ventilation Improvements		11-Jun-14 A	19-Apr-21	27-Feb-25	2.25 Ventilation Improvements																											
2.25 (2) Headworks HVAC Improvements (Project 2.03/2.04)		06-Oct-14 A	13-Aug-19 A	27-Feb-25	2.25 (2) Headworks HVAC Improvements (Project 2.03/2.04)																											
2.25 (3) Digester Control Building HVAC Improvements (Project 2.15(1))		11-Jun-14 A	19-Apr-21	27-Feb-25	2.25 (3) Digester Control Building HVAC Improvements (Project 2.15(1))																											
2.25 (4) Pump Station 1 HVAC Improvements (Project 2.21)		15-Oct-16 A	19-Dec-19 A	27-Feb-25	2.25 (4) Pump Station 1 HVAC Improvements (Project 2.21)																											
2.25 (5) Pump Station 2 HVAC Improvements (Project 2.22)		15-Apr-15 A	02-Apr-21	27-Feb-25	2.25 (5) Pump Station 2 HVAC Improvements (Project 2.22)																											
2.26 Rehabilitation of Walkways and Stairways		01-Oct-13 A	27-Mar-27	27-Sep-27	2.26 Rehabilitation of Walkways and Stairways																											
2.27 Oxygen Production		19-Dec-14 A	21-Mar-22	13-Feb-22	2.27 Oxygen Production																											
2.27 (1) Oxygen Production Site Preparation		28-Jan-16 A	29-Jun-17 A	13-Feb-22	2.27 (1) Oxygen Production Site Preparation																											
2.27 (2) Oxygen Production Design-Build		19-Dec-14 A	21-Mar-22	13-Feb-22	2.27 (2) Oxygen Production Design-Build																											
2.28 SCADA RTU Upgrades		01-Oct-13 A	10-Feb-14 A	29-Mar-14	2.28 SCADA RTU Upgrades																											
2.29 High Strength Influent Impact Study		12-Feb-13 A	29-May-14 A	24-Jun-14	2.29 High Strength Influent Impact Study																											
2.CM CDWWTP CM Office & Contractor Trailers Site Prep		05-Nov-15 A	12-Sep-18 A		2.CM CDWWTP CM Office & Contractor Trailers Site Prep																											
2.TE CD Temporary Electrical Facilities		26-Feb-16 A	31-Aug-18 A		2.TE CD Temporary Electrical Facilities																											
2.SM CDWWTP Stormwater Master Plan		27-Jun-16 A	28-Jul-17 A		2.SM CDWWTP Stormwater Master Plan																											
3. North District WWTP		20-Mar-13 A	22-Jun-25	24-Aug-27	3. North District WWTP																											
3.01 Headworks and Sludge Degritting & Transfer		20-Mar-13 A	06-Dec-17 A	07-Apr-18	3.01 Headworks and Sludge Degritting & Transfer																											
3.02 Primary Clarifiers and Odor Control		03-Sep-14 A	30-Aug-21	06-Apr-23	3.02 Primary Clarifiers and Odor Control																											
3.02 (1) Replace Mechanisms for Primary Clarifiers #4 & 6		01-Dec-16 A	20-Feb-19 A	06-Apr-23	3.02 (1) Replace Mechanisms for Primary Clarifiers #4 & 6																											
3.02 (2) Primary Clarifiers and Odor Control (Remaining Scope of Work)		03-Sep-14 A	30-Aug-21	06-Apr-23	3.02 (2) Primary Clarifiers and Odor Control (Remaining Scope of Work)																											

 Actual Work	 Procurem...
 Summary	 Construction
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 Permitting	

MIAMI-DADE WATER & SEWER DEPARTMENT CONSENT DECREE PROGRAM PROJECT PHASE SUMMARY

Date	Revision	Checked	Approved
14-Jul-14	Revision 0		
16-Oct-20	Sep 2020 Update		
13-Nov-20	Oct 2020 Update		
16-Dec-20	Nov 2020 Update		
14-Jan-21	Dec 2020 Update		

Activity ID	Activity Name	Start *	Substantial ** Completion	EPA Compliance Date	Rainbow Layout																																
					2019					2020					2021					2022					2023					2024					2025		
					Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
3.03	Oxygenation Trains	25-Apr-17 A	22-Jun-25	06-Mar-26	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				3.03												
3.04	Oxygen Production	21-Jul-17 A	22-Jun-25	06-Mar-26	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				3.04												
3.05	Secondary Clarifiers	23-May-14 A	14-Oct-22	24-Aug-27	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				3.05												
3.05 (1)	Secondary Clarifiers (Replace Mechanisms #1-10)	28-Aug-14 A	30-Mar-17 A	24-Aug-27	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				3.05 (1)												
3.05 (2)	Secondary Clarifiers (Remaining Scope of Work)	23-May-14 A	14-Oct-22	24-Aug-27	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				3.05 (2)												
3.06	Disinfection	21-Apr-14 A	15-Apr-21	09-Sep-20	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				3.06												
3.07	Effluent Disposal	21-Feb-14 A	18-Jul-18 A	28-Dec-21	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				3.07												
3.08	Plant Wide Electrical	01-May-14 A	16-Apr-21	20-Aug-22	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				3.08												
3.08 (1)	NDWWTP General Electrical In-house Construction (Feeders 1-2)	01-May-14 A	15-Jan-16 A	20-Aug-22	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				3.08 (1)												
3.08 (2)	Electrical Feeders 3-6 (Project 3.01)	01-May-14 A	06-Dec-17 A	20-Aug-22	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				3.08 (2)												
3.08 (4)	Electrical Feeders 9-14	10-Jan-17 A	16-Apr-21	20-Aug-22	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				3.08 (4)												
3.09	Flood Mitigation	04-Apr-14 A	24-Jun-16 A	13-Aug-17	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				3.09												
3.10	Yard Piping Replacement	05-Apr-15 A	24-May-16 A	04-Dec-21	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				3.10												
3.11	SCADA RTU Upgrades	30-Sep-13 A	26-Nov-14 A	24-Mar-15	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				3.11												
4.	Wastewater Collection & Transmission Line	01-Oct-11 A	27-Sep-27	27-Sep-27	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.												
4.01	Collection System I/I Repairs	01-Oct-13 A	27-Sep-27	27-Sep-27	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.01												
4.01 (1.0)	PMCM CIPP I/I Repairs	01-Feb-15 A	31-Jul-18 A	27-Sep-27	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.01 (1.0)												
4.01 (1.1)	PMCM Dig & Replace I/I Repairs	01-Mar-15 A	22-Jul-18 A	27-Sep-27	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.01 (1.1)												
4.01 (1.2)	PMCM SSES I/I	01-Mar-15 A	18-Aug-17 A	27-Sep-27	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.01 (1.2)												
4.01 (2)	PSIP Program I/I Repairs	01-Oct-13 A	31-Dec-16 A	27-Sep-27	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.01 (2)												
4.01 (3)	MDWASD CM Team I/I Repairs	01-Oct-13 A	27-Sep-27	27-Sep-27	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.01 (3)												
4.01 (4)	WWCTLD WASD In-House I/I Repairs	01-Oct-13 A	27-Sep-27	27-Sep-27	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.01 (4)												
4.02	Government Cut FM - Phase 1&2	01-Oct-11 A	30-Sep-13 A	30-Sep-13	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.02												
4.03	Government Cut FM - Phase 3	30-Jan-13 A	23-Nov-16 A	08-Apr-17	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.03												
4.04	North Dade 72 inch PCCP FM Rehabilitation	13-May-13 A	05-May-16 A	05-Mar-18	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.04												
4.05	South Dade 54 inch PCCP FM Rehabilitation	05-Aug-14 A	14-Sep-18 A	23-Dec-18	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.05												
4.05 (1)	48/54" FM from SW 127 Ave/SW 280 St. to SW 107 Ave/SW 248 St (Phase 1)	05-Aug-14 A	14-Sep-18 A	23-Dec-18	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.05 (1)												
4.06	Replacement of Tamiami Canal Aerial Crossing FM's at NW 37 Ave	11-Dec-12 A	27-May-14 A	29-Oct-16	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.06												
4.07	Replacement of 18 inch DIP FM in Miami Lakes	11-Mar-12 A	07-Dec-15 A	09-Apr-17	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.07												
4.08	Rehabilitation of 54 inch PCCP FM in the City	27-Oct-14 A	29-Aug-18 A	28-May-17	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.08												
4.08 (1)	Rehab 2 Miles of 54 Inch PCCP FM (Consent Decree)	27-Oct-14 A	28-May-17 A	28-May-17	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.08 (1)												
4.08 (2)	Rehab/Replace an Additional 2 Miles of 54" PCCP FM (Non-Consent Decree)	27-Oct-14 A	29-Aug-18 A	28-May-17	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.08 (2)												
4.09	Replace Approximately 30 miles of AC FM Transmission System	28-Aug-12 A	17-Feb-21	17-Oct-20	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.09												
4.09 (1)	(27-28), (44-45), (54-56), (57-59), (64), (66) - Asbestos Concrete Pipe (ACP) Cut and Plug	24-Oct-17 A	05-Jun-20 A	17-Oct-20	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.09 (1)												
4.09 (2)	Replacement of 2,403 LF of 12" ACP FM - NE 14th Ave. from PS-0455 to Miami Gardens Dr.	24-Apr-14 A	25-Oct-16 A	17-Oct-20	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.09 (2)												
4.09 (3-5, 8)	RPQ T1811 Replacement of FM from Pump Station #0356 to NW 183rd and 52nd Ave.	28-Aug-12 A	11-Aug-14 A	17-Oct-20	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.09 (3-5, 8)												
4.09 (6-7)	Replace 325LF of 6" ACP FM from PS #0362 to NW52nd Ct. and 190th St. & 400LF 10" to 189th St	29-Aug-14 A	18-Aug-17 A	17-Oct-20	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.09 (6-7)												
4.09 (9-13)	Replacement of 6, 8 and 12" ACP FM Between PS#0385, PS#0374 and NW 119th St	28-Aug-12 A	07-Aug-15 A	17-Oct-20	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.09 (9-13)												
4.09 (14-19)	Replacement of 6, 8 & 10" ACP FM Around PS#0376, 0427, 0375, 0377 and 0378	28-Aug-12 A	03-Jun-15 A	17-Oct-20	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.09 (14-19)												
4.09 (20-21)	Replace 467LF 8" ACP FM from PS#0366 to NW42ndPI/199thTer. & 1792LF 10" to 199th St	29-Aug-14 A	06-Mar-17 A	17-Oct-20	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.09 (20-21)												
4.09 (22)	Replacement of 2,013 LF of 6" ACP FM from PS#358 to PS#0352	01-Nov-14 A	01-Mar-17 A	17-Oct-20	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.09 (22)												
4.09 (23)	Replacement of 1857 LF of 8" ACP FM from PS#1022 to SW 352nd St & 286LF Along 187 Ave	03-Jun-15 A	15-Jun-18 A	17-Oct-20	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.09 (23)												
4.09 (24)	Replacement of 840 LF of 8" ACP FM Along NW 49th Ct. from PS#0353 to NW 177th St	01-Nov-14 A	27-Oct-16 A	17-Oct-20	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.09 (24)												
4.09 (25-26)	Replacement of 1040 LF of 10" ACP FM from NW173rd Dr/52nd Ave. to NW 177th St/52nd Ave.	01-Nov-14 A	03-Apr-17 A	17-Oct-20	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.09 (25-26)												
4.09 (29-31)	Replace 6" & 12" ACP/PVC FMs from 107th Ave and SW 76 St. and 10" FM from PS#0812	01-Apr-14 A	12-Sep-19 A	17-Oct-20	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.09 (29-31)												
4.09 (32)	Replacement of 684 LF of 12" ACP FM in SW 107th Ave. from 104th St. to Kandal	26-Nov-14 A	13-Oct-17 A	17-Oct-20	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.09 (32)												
4.09 (33)	Replace 1701 LF 4" ACP from PVT PS at SW104th Ave. & 169th St. to MH42 at SW 103rd Ave.	12-Feb-16 A	12-Aug-16 A	17-Oct-20	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.09 (33)												
4.09 (34-43)	Replace ACP DM with 8" & 12" DI FM from SW108 PI/SW177 St to SW95 Ave/SW163 St	21-Oct-15 A	21-Apr-20 A	17-Oct-20	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.09 (34-43)												
4.09 (46)	Replacement of 157 LF of 6" ACP FM from SW107th Ct/155th St to SW 107th Ave./155th St.	03-Jun-15 A	21-Apr-20 A	17-Oct-20	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.09 (46)												
4.09 (47)	Replacement of 1023 LF of 8" ACP FM from PS#0869 to SW 122nd Ave./88th St.	12-Feb-15 A	01-Feb-17 A	17-Oct-20	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.09 (47)												
4.09 (48-53, 63)	Replace 8" & 10" ACP FM with 16", 12" & 8" DIP - SW142 Ave/SW288St to SW123Ct/258St	10-Jun-15 A	01-May-20 A	17-Oct-20	[Gantt bar spanning 2019 Q4 to 2025 Q3]																				4.09 (48-53, 63)												

█ Actual Work █ Procurem...

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█ Pre-Design █ Design-Bu...

█ Design

█ Permitting

MIAMI-DADE WATER & SEWER DEPARTMENT CONSENT DECREE PROGRAM PROJECT PHASE SUMMARY

Date	Revision	Checked	Approved
14-Jul-14	Revision 0		
16-Oct-20	Sep 2020 Update		
13-Nov-20	Oct 2020 Update		
16-Dec-20	Nov 2020 Update		
14-Jan-21	Dec 2020 Update		

Activity ID	Activity Name	Start *	Substantial ** Completion	EPA Compliance Date	Rainbow Layout																							
					2019			2020			2021			2022			2023			2024			2025					
					Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
4.09 (60-62)	Replace 1500LF 8" ACP FM (PS#1013 - PS#1012), 2550LF 10" (SW144th/SW 2	28-Oct-16 A	21-Aug-19 A	17-Oct-20	4.09 (60-62) Replace 1500LF 8" ACP FM (PS#1013 - PS#1012), 2550LF 10" (SW144th/SW 280th St) 958LF 8"																							
4.09 (65)	Replacement of 2250 LF of 6" ACP FM from PS#1002 to SW 152nd Ave. and 304th	28-Oct-16 A	12-Dec-19 A	17-Oct-20	4.09 (65) Replacement of 2250 LF of 6" ACP FM from PS#1002 to SW 152nd Ave. and 304th St.																							
4.09 (67)	Replace 2,700 LF of 8" ACP FM from PS#1132 Along Bikini Blvd to MH5 in Hange	29-Aug-14 A	17-Feb-21		4.09 (67) Replace 2,700 LF of 8" ACP FM from PS#1132 Along Bikini Blvd to MH5 in Hanger Rd																							
4.09 (68)	Replacement of 3,400 LF of 6" and 8" ACP FM, from PS#0364 to NW 199th St./42r	29-Aug-14 A	14-Mar-17 A	17-Oct-20	4.09 (68) Replacement of 3,400 LF of 6" and 8" ACP FM, from PS#0364 to NW 199th St./42nd Ave.																							
4.09 (69)	Replacement of 2,320 LF of 12" ACP FM from PS#0333 South to Miami Lakes Dr.	16-Jun-14 A	27-Oct-16 A	17-Oct-20	4.09 (69) Replacement of 2,320 LF of 12" ACP FM from PS#0333 South to Miami Lakes Dr.																							
4.09 (70)	Replace 8000LF of 10" ACP FM at US-1 from SW 184th St. to N. of Caribbean Blvc	13-Sep-14 A	16-Mar-16 A	17-Oct-20	4.09 (70) Replace 8000LF of 10" ACP FM at US-1 from SW 184th St. to N. of Caribbean Blvd																							
4.09 (71)	Replace 8" ACP FM from PS#0445, West to NW 207th St, 4" From PS#0444 to NW	01-Nov-14 A	24-Apr-19 A	17-Oct-20	4.09 (71) Replace 8" ACP FM from PS#0445, West to NW 207th St, 4" From PS#0444 to NW 207th St																							
4.09 (73)	Replace 14,350 LF of 10", 8" and 6" ACP FM from PS#0728, PS#0709, PS#0738,	29-Aug-14 A	10-Oct-19 A	17-Oct-20	4.09 (73) Replace 14,350 LF of 10", 8" and 6" ACP FM from PS#0728, PS#0709, PS#0738, PS#0735, PS#0730																							
4.10	Opa-Locka Airport 48" PCCP Force Main Replacement	17-Dec-14 A	05-Feb-24	25-Oct-18	4.10 Opa-Locka Airport 48" PCCP Force Main Replacement																							
4.10 (1)	Rehab Existing 48" FM Along North Side of Biscayne Canal from NW 37th Ave. to I	17-Aug-15 A	27-Oct-17 A	25-Oct-18	4.10 (1) Rehab Existing 48" FM Along North Side of Biscayne Canal from NW 37th Ave. to NW 32nd Ave.																							
4.10 (2)	Opa-Locka Airport 48" PCCP Force Main Replacement (Sections 1 and 2)	17-Dec-14 A	11-May-18 A	25-Oct-18	4.10 (2) Opa-Locka Airport 48" PCCP Force Main Replacement (Sections 1 and 2)																							
4.10 (3)	Replace 16" FM Along NW 159th St. from NW 57th St. to NW 54th St.	07-Mar-16 A	14-Dec-17 A	25-Oct-18	4.10 (3) Replace 16" FM Along NW 159th St. from NW 57th St. to NW 54th St.																							
4.10 (4)	Opa-Locka Airport Concessions Project	12-Oct-16 A	05-Feb-24		4.10 (4) Opa-Locka Airport Concessions Project																							
5. Sewer Pump Station System		12-Dec-10 A	11-Nov-22	24-Jan-22	5. Sewer Pump Station System																							
5.01	Upgrade of PS#0418	01-Nov-13 A	08-Nov-19 A	22-Oct-19	5.01 Upgrade of PS#0418																							
5.02	Upgrade of PS#0691	04-Aug-14 A	08-Nov-19 A	27-Jan-19	5.02 Upgrade of PS#0691																							
5.03	Upgrade of PS#0692	04-Aug-14 A	17-Nov-20 A	17-Jun-20	5.03 Upgrade of PS#0692																							
5.04	Replacement of Switchgear PS#0414 and Generator Replacement	17-Oct-14 A	11-Nov-22	15-Jun-19	5.04 Replacement of Switchgear PS#0414 and Generator Replacement																							
5.04 (1)	Replacement of Switchgear PS#0414	17-Oct-14 A	11-Jun-19 A	15-Jun-19	5.04 (1) Replacement of Switchgear PS#0414																							
5.04 (2)	Generator Replacement	15-Aug-18 A	11-Nov-22		5.04 (2) Generator Replacement																							
5.05	Replacement of Switchgear and Rehabilitation of Wetwell PS#0415	26-Sep-14 A	13-Nov-19 A	02-Sep-19	5.05 Replacement of Switchgear and Rehabilitation of Wetwell PS#0415																							
5.06	Replacement of Switchgear PS#0416	18-Oct-14 A	11-Jun-19 A	13-Jun-19	5.06 Replacement of Switchgear PS#0416																							
5.07	Replacement of Switchgear and Rehabilitation of Wetwell PS#0417	30-Sep-14 A	01-Jul-20 A	25-Jul-20	5.07 Replacement of Switchgear and Rehabilitation of Wetwell PS#0417																							
5.08	Replacement of Electrical and Mechanical Equipment in PS#0107	06-Apr-15 A	03-Feb-18 A	27-Jan-19	5.08 Replacement of Electrical and Mechanical Equipment in PS#0107																							
5.09	Replacement of Pumping and Electrical Equipment at PS#0301 (w/ Updated E	08-Sep-14 A	28-Mar-22	24-Jan-22	5.09 Replacement of Pumping and Electrical Equipment at PS#0301 (w/ Updated E																							
5.10	Upgrade of PS#0488	01-Nov-14 A	08-Dec-16 A	09-May-18	5.10 Upgrade of PS#0488																							
5.11	Installation of 48 inch FM from Kendall Dr. to the Suction Side of PS#0536	17-Dec-14 A	13-Feb-19 A	18-May-19	5.11 Installation of 48 inch FM from Kendall Dr. to the Suction Side of PS#0536																							
5.12	Replacement of Switchgear at PS#0187	29-Oct-14 A	25-Mar-19 A	26-Mar-19	5.12 Replacement of Switchgear at PS#0187																							
5.13	Refurbish Emergency Generators and Controls at Regional Pump Stations	12-Sep-14 A	04-Feb-16 A	20-Jul-16	5.13 Refurbish Emergency Generators and Controls at Regional Pump Stations																							
5.14	Upgrade of PS#0086, 0492	19-Mar-12 A	15-Jul-13 A	31-Dec-13	5.14 Upgrade of PS#0086, 0492																							
5.15	Upgrade of PS#0065, 0201, 0334, 0374, 0607	12-Dec-10 A	25-Jan-18 A	31-Dec-15	5.15 Upgrade of PS#0065, 0201, 0334, 0374, 0607																							
5.15 (1)	Pump Station 0065 Compliance Project	01-Aug-14 A	22-Dec-15 A	31-Dec-15	5.15 (1) Pump Station 0065 Compliance Project																							
5.15 (1.1)	FM for Pump Station 0065 Phase 1	01-Aug-14 A	21-Oct-15 A	31-Dec-15	5.15 (1.1) FM for Pump Station 0065 Phase 1																							
5.15 (1.2)	FM for Pump Station 0065 Phase 2 (Non-Consent Decree)	28-Aug-14 A	25-Jan-18 A	31-Dec-15	5.15 (1.2) FM for Pump Station 0065 Phase 2 (Non-Consent Decree)																							
5.15 (2)	Pump Station 0201 Compliance Project	01-Jan-13 A	04-Sep-15 A	31-Dec-15	5.15 (2) Pump Station 0201 Compliance Project																							
5.15 (3)	Pump Station 0334 Compliance Project	01-Jan-13 A	30-Dec-15 A	31-Dec-15	5.15 (3) Pump Station 0334 Compliance Project																							
5.15 (3.1)	FM for Pump Station 0334	01-Jan-13 A	27-Apr-15 A	31-Dec-15	5.15 (3.1) FM for Pump Station 0334																							
5.15 (4)	Pump Station No. 0374 Upgrade	12-Dec-10 A	03-Jan-14 A	31-Dec-15	5.15 (4) Pump Station No. 0374 Upgrade																							
5.15 (4.1)	Pump Station No. 0374 FM Installation	12-Dec-10 A	03-Jan-14 A	31-Dec-15	5.15 (4.1) Pump Station No. 0374 FM Installation																							
5.15 (5)	Pump Station 0607 Compliance Project	01-Jan-13 A	23-Oct-15 A	31-Dec-15	5.15 (5) Pump Station 0607 Compliance Project																							
5.16	Upgrade of PS#0198, 0437, 0466, 0680	03-Nov-14 A	24-Jan-18 A	31-Dec-18	5.16 Upgrade of PS#0198, 0437, 0466, 0680																							
5.16 (1)	Pump Station 0198 Compliance Project	03-Nov-14 A	24-Jan-18 A	31-Dec-18	5.16 (1) Pump Station 0198 Compliance Project																							
5.16 (2)	Pump Station No. 0437 Upgrade	03-Nov-14 A	30-Dec-16 A	31-Dec-18	5.16 (2) Pump Station No. 0437 Upgrade																							
5.16 (3)	Pump Station 0466 Compliance Project	03-Nov-14 A	21-Oct-16 A	31-Dec-18	5.16 (3) Pump Station 0466 Compliance Project																							
5.16 (4)	Pump Station 0680 Upgrade	03-Nov-14 A	01-Dec-16 A	31-Dec-18	5.16 (4) Pump Station 0680 Upgrade																							
5.17	Upgrade of PS#0037, 0351, 0370, 0403	05-Oct-15 A	30-Apr-22	20-Nov-18	5.17 Upgrade of PS#0037, 0351, 0370, 0403																							
5.17 (1)	Pump Station 0037 Compliance Project	05-Oct-15 A	14-Nov-17 A	20-Nov-18	5.17 (1) Pump Station 0037 Compliance Project																							
5.17 (1.1)	Pump Station 0037 Pavement Restoration	01-Feb-21	09-Jan-22		5.17 (1.1) Pump Station 0037 Pavement Restoration																							
5.17 (2)	Pump Station No. 0351 Upgrade	15-Jan-16 A	01-Dec-17 A	20-Nov-18	5.17 (2) Pump Station No. 0351 Upgrade																							
5.17 (2.1)	Pump Station 0351 FM Replacement	16-Jul-18 A	30-Apr-22		5.17 (2.1) Pump Station 0351 FM Replacement																							
5.17 (3)	Pump Station No. 0370 Upgrade and Installation of FM	16-Dec-15 A	11-Jan-18 A	20-Nov-18	5.17 (3) Pump Station No. 0370 Upgrade and Installation of FM																							

█ Actual Work █ Procurem...

█ Summary █ Construction

█ Pre-Design █ Design-Bu...

█ Design

█ Permitting

MIAMI-DADE WATER & SEWER DEPARTMENT CONSENT DECREE PROGRAM PROJECT PHASE SUMMARY

Date	Revision	Checked	Approved
14-Jul-14	Revision 0		
16-Oct-20	Sep 2020 Update		
13-Nov-20	Oct 2020 Update		
16-Dec-20	Nov 2020 Update		
14-Jan-21	Dec 2020 Update		

Activity ID	Activity Name	Start *	Substantial ** Completion	EPA Compliance Date	Rainbow Layout																															
					2019				2020				2021				2022				2023				2024				2025							
					Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3				
5.17 (4)	Pump Station 0403 Upgrade	16-Dec-15 A	30-Apr-18 A	20-Nov-18	Pump Station 0403 Upgrade																															
5.18	Upgrade of PS#0441, 0491, 0710, 0827, 0852, 1236	08-Nov-16 A	18-Nov-19 A	13-Dec-19	5.18 Upgrade of PS#0441, 0491, 0710, 0827, 0852, 1236																															
5.18 (1)	Pump Station 0441 Upgrade	08-Nov-16 A	14-Aug-19 A	13-Dec-19	5.18 (1) Pump Station 0441 Upgrade																															
5.18 (2)	Pump Station 0491 Compliance Project	12-Dec-17 A	15-Nov-19 A	13-Dec-19	5.18 (2) Pump Station 0491 Compliance Project																															
5.18 (3)	Pump Station 0710 Compliance Project	22-Nov-16 A	14-Aug-19 A	13-Dec-19	5.18 (3) Pump Station 0710 Compliance Project																															
5.18 (4)	Pump Station 0827 Compliance Project	06-Dec-16 A	18-Nov-19 A	13-Dec-19	5.18 (4) Pump Station 0827 Compliance Project																															
5.18 (5)	Pump Station 0852 Compliance Project	06-Dec-16 A	26-Jul-19 A	13-Dec-19	5.18 (5) Pump Station 0852 Compliance Project																															
5.19	SCADA RTU Upgrades	01-Oct-13 A	23-Nov-15 A	18-Mar-16																																
6.	Supplemental Environmental Project	20-Oct-14 A	26-Dec-18 A	18-Nov-19	6. Supplemental Environmental Project																															
6.0	Supplemental Environmental Project (SEP)	20-Oct-14 A	26-Dec-18 A	18-Nov-19	6.0 Supplemental Environmental Project (SEP)																															
6.1	SEP (Early Phase Work)	09-Jun-15 A	16-Aug-16 A	18-Nov-19																																

- Actual Work
- Procurem...
- Summary
- Construction
- Pre-Design
- Design-Bu...
- Design
- Permitting

MIAMI-DADE WATER & SEWER DEPARTMENT
 CONSENT DECREE PROGRAM
 PROJECT PHASE SUMMARY

Date	Revision	Checked	Approved
14-Jul-14	Revision 0		
16-Oct-20	Sep 2020 Update		
13-Nov-20	Oct 2020 Update		
16-Dec-20	Nov 2020 Update		
14-Jan-21	Dec 2020 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 - September 2020)
(On an accrual basis)

<i>In Thousands</i>	Audited Oct-Sep	Unaudited Oct-Sep
Wastewater System	FY 18-19 Actual	FY 19-20 Actual
Revenues:		
Wastewater System Operating Revenues	\$406,399	\$427,522
Interest Income	\$8,931	\$7,673
Other Adjustments (net change accruals&payables)	\$16,010	\$0
Transferred From WASD Water Operations <i>(*Occurs at Year-end FY2020 flow of funds - after audit)</i>	\$58,444	\$0
Total Revenues:	\$489,784	\$435,195
Expenditures:		
Wastewater System Operating & Maintenance Expenditures	(\$252,656)	(\$260,020)
Debt Service - Existing (net of Swap receipts)	(\$151,738)	(\$164,277)
Operating Revenues Transferred To Wastewater Capital Funds (Renewal & Replacement/Special Construction)	(\$84,000)	(\$64,700)
Operating Revenues Transferred To Bond Required Reserve	(\$1,390)	(\$1,818)
Transferred To WASD Water Operations	\$0	\$0
Total Expenditures Operating and Non-Operating	(\$489,784)	(\$490,815)
Net Overage/(Deficit) in Wastewater System Revenues <i>(*Pending FY20 transfer from water - after audit)</i>	\$0	(\$55,620)
% Increase for Net <i>Deficit</i>	0.00%	0.00%

** YTD ACTUAL Note: Transfers to capital funds 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	\$78,099	\$79,917
Water and Wastewater Rate Stabilization Fund Balance	\$30,534	\$30,534
Water and Sewer General Reserve Fund Beginning Balance	\$65,676	\$76,780
Water and Wastewater Systems Transfer to/(from) General Reserve	\$11,104	\$2,928
Water and Sewer General Reserve Fund Ending Balance	\$76,780	\$79,708

Miami-Dade Water and Sewer Department
Statement of Revenues, Expenses and Changes in Net Position
WASTEWATER - Wastewater Funds
For 12 Months Ending September 30, 2020

Report Id: WGL011-9
Run on: 12/22/20 03:02 PM
Source: GL

	Unaudited FY 2020			FY 2019	
	Actual	Budget	Variance Fav/(Unfav)	Actual	Variance Fav/(Unfav)
OPERATING REVENUES					
Retail Water	-	-	-	-	-
Retail Wastewater	324,979,962.90	317,917,988.00	7,061,974.90	308,852,626.69	16,127,336.21
Wholesale Water	-	-	-	-	-
Wholesale Wastewater	90,604,613.50	76,268,110.00	14,336,503.50	83,450,495.88	7,154,117.62
Other Revenues	11,937,728.78	15,828,367.00	(3,890,638.22)	14,096,038.22	(2,158,309.44)
TOTAL OPERATING REVENUES	427,522,305.18	410,014,465.00	17,507,840.18	406,399,160.79	21,123,144.39
OPERATING & MAINTENANCE EXPENSES					
Water Source of Supply	-	-	-	-	-
Water Pumping	-	-	-	-	-
Water Treatment and Purification	-	-	-	-	-
Water Transmission and Distribution	-	-	-	-	-
Sewer Collection	33,169,146.20	35,999,374.79	2,830,228.59	32,481,170.68	(687,975.52)
Sewer Pumping	50,188,386.87	47,703,630.60	(2,484,756.27)	47,937,513.89	(2,250,872.98)
Sewer Treatment and Disposal	100,503,598.26	112,225,529.97	11,721,931.71	100,523,032.56	19,434.30
Customer Accounting	12,202,090.58	4,894,231.32	(7,307,859.26)	3,733,726.26	(8,468,364.32)
Customer Service	10,809,852.08	11,702,904.47	893,052.39	10,838,089.28	28,237.20
General and Administration	53,146,744.31	66,220,529.66	13,073,785.35	57,142,118.29	3,995,373.98
Fringes and Overhead	-	-	-	-	-
Stores Overhead	-	-	-	-	-
Vehicle Overhead	-	-	-	-	-
TOTAL OPERATING & MAINTENANCE EXPENSES	260,019,818.30	278,746,200.81	18,726,382.51	252,655,650.97	(7,364,167.33)
OPERATING INCOME BEFORE DEPRECIATION	167,502,486.88	131,268,264.19	36,234,222.69	153,743,509.82	13,758,977.06
Depreciation	129,592,195.54	126,855,000.00	(2,737,195.54)	128,094,580.71	(1,497,614.83)
OPERATING INCOME (LOSS)	37,910,291.34	4,413,264.19	33,497,027.15	25,648,929.11	12,261,362.23
NON-OPERATING REVENUE (EXPENSE)					
Customer Connection Fees	28,598,192.72	-	28,598,192.72	32,720,165.88	(4,121,973.16)
Other Revenue	(10,889,989.84)	-	(10,889,989.84)	6,288,605.84	(17,178,595.68)
Other Expense	-	-	-	-	-
Change in Fair Value	547,653.03	-	547,653.03	5,958,694.24	(5,411,041.21)
Interest Income	7,794,720.16	8,405,925.82	(611,205.66)	9,460,342.88	(1,665,622.72)

Miami-Dade Water and Sewer Department
Statement of Revenues, Expenses and Changes in Net Position
WASTEWATER - Wastewater Funds
For 12 Months Ending September 30, 2020

Report Id: WGL011-9
Run on: 12/22/20 03:02 PM
Source: GL

	Unaudited FY 2020			FY 2019	
	Actual	Budget	Variance Fav/(Unfav)	Actual	Variance Fav/(Unfav)
Interest Expense	(91,542,891.95)	(90,014,000.00)	(1,528,891.95)	(82,678,498.10)	(8,864,393.85)
Capitalized Interest	(564,629.67)	(500,000.00)	(64,629.67)	(2,700,468.75)	2,135,839.08
Amortization of Debt Issue	(11,006,982.53)	(10,215,000.00)	(791,982.53)	(7,254,229.04)	(3,752,753.49)
Operating Disaster Revenue	(18,556.13)	-	(18,556.13)	-	(18,556.13)
Operating Grants	-	-	-	-	-
Job Order Recovery	979,004.69	-	979,004.69	783,802.86	195,201.83
Job Order Expenses	(1,041,664.26)	-	(1,041,664.26)	(1,342,430.58)	300,766.32
Gen Fund Admin Support Fee	-	-	-	-	-
Non-Operating Transfers	-	-	-	-	-
Non-Operating Activity	-	-	-	-	-
Non-O&M Activity	-	-	-	-	-
TOTAL NON-OPERATING REVENUE (EXPENSE)	(77,145,143.78)	(92,323,074.18)	15,177,930.40	(38,764,014.77)	(38,381,129.01)
INCOME (LOSS) BEFORE CAPITAL CONTRIBUTIONS	(39,234,852.44)	(87,909,809.99)	48,674,957.55	(13,115,085.66)	(26,119,766.78)
Capital Contributions	38,144,628.65	15,000,000.00	23,144,628.65	12,591,905.02	25,552,723.63
INCREASE (DECREASE) IN NET POSITION	(1,090,223.79)	(72,909,809.99)	71,819,586.20	(523,180.64)	(567,043.15)

**Miami-Dade Water and Sewer Department
GL O&M Expense Analysis by O&M Activity
As of September 30, 2020**

Report Id: WFR018
Run on: 01/08/21 02:41 PM
Source: GL

		Annual Budget 2020	YEAR-TO-DATE (Oct-Sep 2020)			
			Actual 2020	Budget 2020	Actual 2019	Budget 2019
OPERATING & MAINTENANCE EXPENSES						
100057	OM Activity - GL use only (SC)	559,210	891,803	559,210	736,554	535,100
212005	Sewer Collect and Trans (SC)	-	-	-	13	-
225002	Sewer Collection & Trans (SC)	-	75,548	-	-	-
229002	Sewer Collection & Trans (SC)	-	261,123	-	-	-
260004	Security Services (SC)	780,000	602,071	780,000	597,966	780,000
260110	Communications (SC)	832,251	338,555	832,251	367,400	1,344,932
260402	Damages (SC)	136,320	144,354	136,320	143,064	29,780
350105	Construction Mgmt (SC)	-	19,678	-	-	-
360002	Sewer Collection & Trans (SC)	400	-	400	-	-
520101	Install. of Elect Equip (SC)	-	-	-	13	-
520521	Grounds Installs/Landscp (SC)	-	769	-	-	-
520541	Grounds Maint. Services (SC)	-	-	-	364	-
520601	Indoor Air Qly Insp Compl (SC)	75,000	-	75,000	2,568	82,000
520621	Install Mech/Hvac-Refr Eq (SC)	-	4,972	-	1,386	-
520661	Maint. of Mech Hvac Equip (SC)	-	633	-	-	-
520751	Install. of Plumb Equip (SC)	-	-	-	428	-
520777	Maint. of Plumbing Equip (SC)	-	3,539	-	8,446	6,000
520871	Misc Projects/Tasks (SC)	-	17,948	-	10,809	-
520905	Locksmith Services (SC)	-	(1)	-	596	-
520913	Painting (SC)	-	331	-	-	-
520921	Structural Misc Task (SC)	-	17,743	-	2,948	-
620004	Sewer Collection & Trans (SC)	-	53,072	-	58,481	500,000
630117	Sewer Collection & Trans (SC)	2,500	-	2,500	-	2,500
650002	Sewer Collection & Trans (SC)	1,250,654	961,925	1,250,654	1,103,978	3,560,795
711301	Sewer Meter Related Work (SC)	1,034,574	871,455	1,034,574	711,056	1,013,933
711302	Maint Swr Meter Vaults (SC)	-	89,222	-	7,811	-
810002	Sewer Collection Actv (SC)	-	(3,520)	-	243,293	-
811015	Telemetry/SCADA (SC)	171,409	112,935	171,409	140,364	84,909
840001	Admin. & General (SC)	3,193,394	3,248,498	3,193,394	3,151,242	1,781,592
840002	Facilities Maint (SC)	10,500	12,958	10,500	13,636	8,800
840101	Cleaning (SC)	4,499,814	3,727,098	4,499,814	3,068,502	4,866,577
840102	Evaluation/Review (SC)	787,724	873,486	787,724	701,817	777,619
840103	Force Main Inspection (SC)	78,982	186,744	78,982	156,465	69,927
840104	Inspection-Repair Shop (SC)	892,317	781,080	892,317	1,005,407	723,733
840105	Joint Grouting (SC)	478,300	172,268	478,300	598,191	524,200
840106	Lateral TV Inspection (SC)	1,291,191	643,941	1,291,191	711,712	232,011
840107	Manhole Inspections (SC)	-	157,208	-	239,954	-
840108	Manhole Sealing (SC)	81,255	1,019,002	81,255	1,179,049	18,000
840109	Metering-Conductivity (SC)	368,639	73,925	368,639	280,314	511,399
840110	Metering-Night Flow (SC)	122,593	219,780	122,593	366,844	172,931
840111	Metering-Pre/Post (SC)	150	314	150	-	59,800
840112	Special Projects Inspect (SC)	3,542,047	1,741,617	3,542,047	2,258,976	3,324,028
840113	Pump Station Improv Prog (SC)	-	(409)	-	1,098	-
840114	Smoke Test (SC)	1,200	31,275	1,200	202,574	1,200
840116	Wellfield Protect Inspec. (SC)	-	248,239	-	825,558	-
840117	I/I Contract - Inspection (SC)	2,058,060	1,119,006	2,058,060	1,068,324	1,000,000
840118	Sect Metal Sleeve Main Li (SC)	-	9,468	-	-	-
840119	Deroot Main Line (SC)	-	1,835	-	-	-
840120	Descale Main Line (SC)	-	53,018	-	-	-
840121	Heavy Clean Main Line (SC)	-	28,989	-	-	-
840122	Gravity Main CCTV Insp (SC)	-	1,529,759	-	-	-
840123	Grout Latrl Annular Space (SC)	-	15,780	-	-	-

**Miami-Dade Water and Sewer Department
GL O&M Expense Analysis by O&M Activity
As of September 30, 2020**

Report Id: WFR018
Run on: 01/08/21 02:41 PM
Source: GL

	Annual Budget 2020	YEAR-TO-DATE (Oct-Sep 2020)				
		Actual 2020	Budget 2020	Actual 2019	Budget 2019	
840201		-	174,001	-	212,815	-
840202		-	-	-	5,961	-
840203		-	341,804	-	547,794	-
840204		-	14,330	-	60,109	-
840205		-	-	-	407	-
840206	807,255	1,276,093	807,255	1,012,906	(370,900)	
840207		-	132	-	2,627	-
840208	5,594,645	3,985,981	5,594,645	4,171,560	6,638,473	
840209		-	855	-	-	-
840210	565,487	2,215,052	565,487	1,798,761	1,251,522	
840211	403,900	211,643	403,900	147,160	318,700	
840212		-	-	-	13,358	-
840213	3,293,100	1,407,171	3,293,100	1,644,128	2,206,280	
840214		-	819,476	-	671,552	526,600
840215		-	389	-	74	-
840216		-	1,175	-	148	150,000
840217	2,038,955	2,181,461	2,038,955	2,065,154	1,887,483	
840218	7,150	92,458	7,150	80,071	6,000	
840219		-	36,072	-	(2,664)	-
840220	1,000,000	475	1,000,000	(4,489)	950,000	
840240		-	51,396	-	86,365	-
850129	40,400	150	40,400	175	60,450	
Sewer Collection	35,999,375	33,169,146	35,999,375	32,481,171	35,636,373	
100058	878,841	1,387,463	878,841	1,149,076	841,000	
212006	123,680	230,355	123,680	135,853	116,219	
225001		-	112,496	-	-	-
229001		-	761	-	-	-
260005	1,220,000	734,247	1,220,000	480,131	1,720,000	
260120	906,277	519,712	906,277	526,866	366,796	
320003		-	17,674	-	-	-
350102		-	-	-	6,134	-
360001	747,587	313,707	747,587	775,490	736,220	
520002	1,000	(1,945)	1,000	37,915	-	
520102		-	-	102	17,418	
520301		-	79,257	-	99,423	-
520522		-	(2,597)	-	134	-
520542	253,584	222,255	253,584	255,155	382,990	
520622		-	8,781	-	9,173	41,000
520642		-	427	-	-	-
520662	4,500	9,965	4,500	14,336	40,200	
520778	105,948	28,084	105,948	33,775	5,000	
520872		-	25,799	-	3,132	5,000
520902		-	-	-	-	1,500
520906		-	(3)	-	2,352	-
520910		-	-	-	12	-
520914		-	4,724	-	-	-
520922	616,311	14,405	616,311	30,707	5,000	
630112	8,000	-	8,000	(15,010)	-	
630114	360,800	30,187	360,800	54,264	462,400	
650001	25,500	9,109	25,500	7,887	-	
810001		-	108,580	-	-	-
811016	905,526	2,230,062	905,526	2,120,145	567,787	
830001	1,783,419	1,713,125	1,783,419	1,835,506	1,714,798	
830002	658,536	966,530	658,536	542,874	638,480	

Miami-Dade Water and Sewer Department
GL O&M Expense Analysis by O&M Activity
As of September 30, 2020

Report Id: WFR018
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	Annual Budget 2020	YEAR-TO-DATE (Oct-Sep 2020)				
		Actual 2020	Budget 2020	Actual 2019	Budget 2019	
830003	Adm&Gnl-Training (SP)	7,200	24,433	7,200	62,104	20,900
830004	Adm&Gnl-Supv (SP)	206,501	130,561	206,501	171,107	201,194
830005	Adm&Gnl-Other (SP)	576,911	900,024	576,911	925,160	363,043
830100	Odor Control (SP)	-	-	-	24	-
830200	Operations (SP)	-	85,051	-	89,827	-
830201	OP-Shutdowns (SP)	925	14,070	925	-	124
830202	OP-Bypass (SP)	-	-	-	49	-
830203	OP-Supv (SP)	1,293,973	1,165,927	1,293,973	1,183,309	1,253,798
830204	OP-Engineering (SP)	200	751	200	-	-
830205	OP-Operations (SP)	114,083	306	114,083	97,670	112,567
830206	OP-Other (SP)	7,568,116	2,177,166	7,568,116	1,962,663	7,200,633
830300	Equipment (SP)	7,716,400	7,391,290	7,716,400	7,191,325	7,108,400
830301	Equip-Routine (SP)	6,112,187	3,431,645	6,112,187	3,579,652	5,606,825
830302	Equip-Preventive (SP)	810,055	636,506	810,055	745,917	791,498
830303	Equip-Predictive (SP)	3,700	29,119	3,700	54,945	2,300
830304	Equip-Corrective (SP)	7,677,050	16,366,617	7,677,050	14,966,694	6,238,978
830305	Equip-Engineering (SP)	100	475	100	397	-
830306	Equip-Supervision (SP)	915,559	1,203,682	915,559	1,084,730	877,242
830307	Equip-Other (SP)	49,476	1,044,047	49,476	1,027,166	39,773
830401	GroundsRoutine (SP)	4,600	3,735	4,600	7,483	10,000
830404	GroundsCorrective (SP)	3,000	1,061	3,000	2,227	1,000
830405	GroundsEngineering (SP)	-	1,159	-	196	-
830407	GroundsOther (SP)	-	103	-	-	100
830500	Structures (SP)	17,800	62,470	17,800	32,891	16,100
830501	Struct-Routine (SP)	60,000	808,632	60,000	1,040,637	113,300
830502	Struct-Preventive (SP)	1,100	-	1,100	2,458	-
830503	Struct-Predictive (SP)	15,200	917	15,200	6,325	100
830504	Struct-Corrective (SP)	176,086	1,480,414	176,086	1,309,144	200,282
830505	Struct-Engineering (SP)	15,100	448	15,100	1,715	-
830506	Struct-Supervision (SP)	607,408	709,199	607,408	650,354	492,363
830507	Struct-Other (SP)	3,058,122	1,478,293	3,058,122	1,040,582	2,891,698
830601	RemAct/Spil-Supv (SP)	-	695	-	-	-
830603	RemAct/Spil-Shutdowns (SP)	-	-	-	147	-
830700	Inspection (SP)	400	-	400	18,970	-
830703	Insp-ET's (SP)	34,125	242,228	34,125	248,640	32,624
830704	Insp-Prop Pump Stations (SP)	4,500	29,829	4,500	33,947	3,100
830802	Gas Monit Calib-Materials (SP)	-	126,766	-	-	-
830900	Emergency (SP)	125	36,591	125	22,791	124
830901	Emerg - Hurrigan Preparat (SP)	-	73	-	48,619	3,400
830902	Emerg-Hurricane Recovery (SP)	500	-	500	4,887	1,200
830904	Emergency - Run Generator (SP)	400	15,362	400	44,249	300
830906	Emergency - OPP (SP)	-	13,581	-	-	-
830907	Assist other Division (SP)	200	71,469	200	91,048	-
850130	Utilities Monitoring (SP)	1,484,900	1,482,918	1,484,900	1,606,409	1,405,300
850203	Assistance to Other Div (SP)	850	-	850	-	1,550
850209	Maint/Rep-Diesel Eqp/Gens(SP)	136,291	101,815	136,291	307,998	107,515
850213	Maint/Rep-Pump Stations (SP)	363,850	155,774	363,850	157,110	203,100
850220	Maint/Rep-Struct/Grounds (SP)	100	22	100	5	50
850222	Underground Piping/Valves (SP)	51,225	-	51,225	10,512	1,050
850224	Remedial Action/Spills (SP)	50	-	50	-	100
850226	Telemetry/SCADA (SP)	5,750	-	5,750	-	-
850228	Odor Control (SP)	10,000	-	10,000	-	-
Sewer Pumping		47,703,631	50,188,387	47,703,631	47,937,514	42,963,441
100059	OM Activity - GL use only (ST)	1,709,907	2,363,672	1,709,907	2,301,217	1,628,916

Miami-Dade Water and Sewer Department
GL O&M Expense Analysis by O&M Activity
As of September 30, 2020

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 Source: GL

	Annual Budget 2020	YEAR-TO-DATE (Oct-Sep 2020)			
		Actual 2020	Budget 2020	Actual 2019	Budget 2019
210001 Sewer Trmnt & Disposal (ST)	4,000,000	-	4,000,000	-	6,500,000
212007 Sewer Treat and Disposal (ST)	336,797	425,308	336,797	329,043	302,314
227001 Sewer Treatment Activity (ST)	1,598,671	927,601	1,598,671	338,805	483,194
228001 Sewer Treatment Activity (ST)	197,819	201,667	197,819	189,624	294,023
260006 Security Services (ST)	3,000,000	1,514,848	3,000,000	1,657,295	3,500,000
320002 Expense Projects (ST)	-	(56)	-	48,074	-
350107 Construction Mgmt (ST)	-	33,053	-	-	-
520302 Fueling/Recovery Deliv (ST)	3,000	33,905	3,000	53,843	-
520463 Fire Protection System (ST)	-	8,268	-	23,195	1,000
520501 Grounds Contract Services (ST)	259,841	332,134	259,841	369,610	484,037
520523 Grounds Installs/Landscp (ST)	-	5,456	-	7,782	-
520543 Grounds Maint. Services (ST)	1,353,560	1,126,492	1,353,560	1,171,690	1,385,143
520623 Install Mech/Hvac-Refr Eq (ST)	-	(49,648)	-	50,236	-
520643 Maintenance Contracts (ST)	-	93	-	-	-
520663 Maint. of Mech Hvac Equip (ST)	988,870	1,028,269	988,870	936,355	1,364,249
520779 Maint. of Plumbing Equip (ST)	-	300	-	444	-
520873 Misc Projects/Tasks (ST)	162,568	5,803	162,568	8,154	208,787
520923 Structural Misc Task (ST)	-	-	-	-	12,000
520974 Rentals-Other Divisions (ST)	100	753,049	100	818,678	860,000
610001 Sewer Treatment Plant (ST)	-	14,563	-	-	-
620001 Sewer Treatment Plant (ST)	1,150,000	943,585	1,150,000	1,148,618	1,152,000
630102 Hazardous Waste Disposal (ST)	-	-	-	-	-
630119 Sewer Treatment Plant (ST)	360,400	224,998	360,400	337,778	499,800
740001 LabS Treat & Disp Exp (ST)	2,843,401	2,928,308	2,843,401	2,752,890	3,045,933
810003 Sewer Treatment Actv (ST)	250,000	110,733	250,000	320,928	250,000
811017 Telemetering/SCADA (ST)	5,484,679	2,367,250	5,484,679	2,815,831	4,920,996
811018 Main/Rep-Rad/Com Eq (ST)	49,900	18,934	49,900	44,712	41,600
811021 Instl/Rep/Cam/Surv Eq (ST)	213,562	222,373	213,562	203,990	233,215
850001 Admin. & General (ST)	35,977,815	34,798,503	35,977,815	34,961,486	29,714,770
850002 Adm&Gnl-CMMS (ST)	405,159	370,670	405,159	437,780	491,787
850003 Adm&Gnl-Supervision (ST)*	125	-	125	-	150
850004 Adm & Gnl-Permitting (ST)	31,525	88,186	31,525	57,656	17,375
850005 CDL Random Testing (ST)	200	-	200	154	200
850006 Training (ST)	24,348	28,103	24,348	106,432	21,584
850007 Union Activities (ST)	200	-	200	-	200
850103 Emerg Power Generation (ST)	7,306	-	7,306	4,794	10,306
850104 Odor Control (ST)	8,021,831	5,691,152	8,021,831	6,595,531	5,423,906
850105 Effluent Pumping (ST)	10,000	-	10,000	-	-
850106 Pumping Stations (ST)	5,996	-	5,996	-	39,496
850109 Training (ST)	87,715	36,113	87,715	94,947	84,853
850111 Purchased Treatment (ST)	125	36,625	125	-	1,100
850112 Reuse Facility (ST)	6,006	-	6,006	7,537	6,006
850114 Sludge Cons & Diges Ops (ST)	14,811	-	14,811	661	23,772
850115 Dewatering (ST)	2,955,998	3,711,122	2,955,998	3,721,054	3,014,230
850116 Solids Handling (ST)	12,027,545	7,577,999	12,027,545	9,537,871	12,967,990
850117 Headworks (ST)	150	-	150	-	1,000
850119 Secondary Clarification (ST)	33,574	9,884	33,574	(320)	33,624
850120 O2 Generation (ST)	447,494	302,764	447,494	552,716	568,100
850121 Non Emer Power Generation (ST)	384,876	166,079	384,876	249,255	367,437
850122 Final Station (ST)	1,500	-	1,500	-	250
850123 Deep Well Injection (ST)	1,200	27,550	1,200	435,923	1,710,400
850124 Tanker Duty (ST)	11,612	(333)	11,612	2,139	11,612
850125 Biosolids Processing (ST)	51,400	-	51,400	2,677	51,950
850127 Vessel Cleaning (ST)	159,138	47,589	159,138	17,514	146,450
850128 Special Projects (ST)	62,158	118,291	62,158	26,662	122,458

**Miami-Dade Water and Sewer Department
GL O&M Expense Analysis by O&M Activity
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	Annual Budget 2020	YEAR-TO-DATE (Oct-Sep 2020)			
		Actual 2020	Budget 2020	Actual 2019	Budget 2019
850202 Other Maintenance (ST)	498,218	561,829	498,218	757,378	463,263
850204 Assistance to Other Div (ST)	34,502	38,752	34,502	72,178	44,822
850206 Emerg Actv/Emg Gen-Stby (ST)	124,070	357,364	124,070	136,192	98,690
850208 Maint/Rep-Co-Generation(ST)	766,269	1,357,358	766,269	1,568,030	680,445
850210 Maint/Rep-Diesel Eqp/Gens(ST)	3,054,114	2,748,060	3,054,114	1,903,756	2,982,259
850211 Maint/Rep-Plant Equipment (ST)	15,858,786	15,493,421	15,858,786	15,782,259	17,702,554
850212 Maint/Rep-Instr/Ctrls/Mtrs(ST)	629,250	330,330	629,250	374,136	1,080,048
850214 Maint/Rep-Pump Stations (ST)	3,925	-	3,925	1,497	2,050
850215 Maint/Rep-Radio/Comm (ST)	300	-	300	-	350
850216 Maint/Rep-Cryogenic Plant (ST)	64,845	237,751	64,845	102,783	8,674
850217 Maint/Rep-Sldg Concrt/Digs(ST)	33,935	376,555	33,935	102,015	291,123
850218 Maint/Rep-Sldg Dewatering(ST)	44,422	3,239,802	44,422	177,085	42,822
850219 Maint/Rep-Sludge Handling (ST)	788,562	18,892	788,562	60,248	701,226
850221 Maint/Rep-Struct/Grounds (ST)	2,775,288	4,085,564	2,775,288	3,641,004	2,747,813
850223 Underground Piping/Valves (ST)	409,221	236,314	409,221	734,237	180,524
850225 Remedial Action/Spills (ST)	1,250	-	1,250	-	1,750
850227 Telemetering/SCADA (ST)	100	30,685	100	27,428	200
850230 Special Projects (ST)	2,445,589	2,839,661	2,445,589	2,341,543	1,340,916
Sewer Treatment and Disposal	112,225,530	100,503,598	112,225,530	100,523,033	110,367,742
TOTAL O&M EXPENSES	480,361,587	449,263,476	480,361,587	425,557,321	468,591,705
TOTAL DIRECT O&M WASTEWATER SYSTEM EXPENSES (SC, SP, ST)		183,861,131		180,941,717	
		Oct-Sep FY 2020		Oct-Sep FY 2019	

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

Data for 10/1/19 through 9/30/20

WASD Project #	OMB Project Name	WASD Subproject #	WASD Subproject Name	FY 2020 Expenditures
1041	MIAMI SPRINGS - PUMP STATION UPGRADES (BUILDING BETTER COMMUNITIES BOND PROGRAM)	101796	UPGRADE OF MIAMI SPRINGS PUMP STATION AND CONTRACT SPECIFICATIONS	\$16,056
1040	OUTFALL LEGISLATION	101867	CT-2A - CDWWTP - HLD Improvements & Filtration Pilot Test	\$653,589
1040	OUTFALL LEGISLATION	102006	NT-2C - NDWWTP - HLD Facilities	\$7,371
1040	OUTFALL LEGISLATION	102007	NE-2 - NDWWTP - Municipal Injection Wells (WIFIA 1)	\$57,244
1040	OUTFALL LEGISLATION	102008	NE-1 - NDWWTP - Municipal Injection Well PS	\$57,933
1040	OUTFALL LEGISLATION	102009	CE-1 - CDWWTP - Municipal Injection Well PS	\$2,666,384
1040	OUTFALL LEGISLATION	102010	CE-2 - CDWWTP - Municipal Injection Wells (WIFIA 1)	\$31,688,064
1040	OUTFALL LEGISLATION	102038	CDWWTP - CENTRATE INJECTION WELL (CE-4)	\$2,194,049
1040	OUTFALL LEGISLATION	102080	NT-3 - NDWWTP - EDB # 2 (Electrical Bldg. for HLD)(WIFIA 2)	\$259,977
1040	OUTFALL LEGISLATION	102096	CDWWTP PUMP STATION FOR CENTRATE WELL (CE-3)	\$12,098,776
1040	OUTFALL LEGISLATION	102138	OWNERS REPRESENTATIVE SERVICES FOR OOL PROGRAM AND WASTEWATER SYSTEM	(\$12,644,494)
1040	OUTFALL LEGISLATION	102222	CT-3C.1 - CDWWTP - EDB #2 (HLD)(WIFIA 2)	\$1,690,872
1040	OUTFALL LEGISLATION	103007	CT-3B - CDWWTP - O2 Train and Secondary Clarifiers	\$4,712,870
1040	OUTFALL LEGISLATION	103014	NT-2B- NDWWTP - Site Prep & Stormwater	\$11,289
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102500	SDWWTP - Headworks	\$99,130
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102501	SDWWTP - Oxygen Production	\$5,231,471
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102502	SDWWTP - Oxygenation Trains	\$1,187,963
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102503	SDWWTP - Chlorine Building	\$60,315
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102504	SDWWTP - Effluent Pump Station	\$9,964,071
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102506	SDWWTP - Digesters and Control Buildings	\$39,068,809
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102507	SDWWTP - Dewatering Facility	\$4,123,660
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102508	SDWWTP - FOG Removal Facility	\$687,197
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102509	SDWWTP - Odor Control	\$871,440
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102510	SDWWTP - General Electrical	\$179,333
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102511	SDWWTP - Chlorine Contact Chamber Structural	\$1,549,448
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102600	CDWWTP - Electrical Improvements	\$1,369,661
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102601	CDWWTP - Building improvements	\$610,288
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102602	Headworks Plant 1	\$1,331,430

WASD Project #	OMB Project Name	WASD Subproject #	WASD Subproject Name	FY 2020 Expenditures
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102603	CDWWTP - Headworks Plant 2	\$811,742
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102604	CDWWTP - Oxygenation Trains Plant 1	\$49,779
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102605	CDWWTP - Oxygenation Trains Plant 2	\$669,134
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102606	CDWWTP - Secondary Clarifiers Plant 1	\$61,662
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102607	CDWWTP - Secondary Clarifiers Plant 2	\$2,172,961
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102608	CDWWTP - RS Pump Stations Plant 1	\$488,834
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102609	CDWWTP - RS Pump Stations Plant 2	\$12,128,968
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102610	CDWWTP - Effluent Pump Station	\$14,661,412
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102613	CDWWTP - Digesters Plant 1	\$62,200
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102614	CDWWTP - Digesters Plant 2	\$9,399,011
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102615	CDWWTP - Dewatering Building	\$5,247,923
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102616	CDWWTP - Chlorination Facilities	\$325,543
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102618	CDWWTP - Co-Gen Facility	\$5,224,566
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102620	CDWWTP - Pump Station 1	\$1,180,872
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102621	CDWWTP - Pump Station 2	\$2,280,519
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102624	CDWWTP - Ventilation Improvements	\$45,480
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102626	CDWWTP - Oxygen Production	\$23,768,176
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102628	CONSENT DECREE PROGRAM MANAGEMENT & CONSTRUCTION MANAGEMENT	(\$8,216,918)
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102700	NDWWTP - Headworks and Sludge Degritting Transfer	\$160,501
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102701	NDWWTP - Primary Clarifiers and Odor Control	\$19,532,909
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102702	NDWWTP - Oxygenation Trains	\$1,389
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102703	NDWWTP - Oxygen Production	\$413,673
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102704	NDWWTP - Secondary Clarifiers	\$6,616,054
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102705	NDWWTP - Disinfection	\$9,076,873
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102707	NDWWTP - Plant Wide Electrical	\$45,192
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102900	DORAL BASIN - UPGRADE SEWAGE PS No. 418	\$524,641
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102902	Upgrade of PS#0692	\$8,940,057

WASD Project #	OMB Project Name	WASD Subproject #	WASD Subproject Name	FY 2020 Expenditures
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102903	Replacement of Switchgear PS#0414	\$884,078
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102904	Replacement of Switchgear and Rehabilitation of Wet well PS#0415	\$643,377
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102905	Replacement of Switchgear PS#0416	\$1,042,075
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102906	Replacement of Switchgear and Rehabilitation of Wet well PS#0417	\$4,556,691
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102908	Replacement of Plumbing and Electrical Equipment at PS#0301	\$2,071,355
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102910	Installation of 60 inch FM from Kendall Dr to PS#0536	\$131,445
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102911	Replacement of Switchgear at PS#0187	\$1,020,992
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102914	Upgrade of PS #0065, 0201, 0334, 0374, 0607	\$25,278
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102915	Upgrade of PS #00198, 0437, 0466, 0680	\$84,789
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102916	Upgrade of PS #0037, 0351, 0370, 0403	\$718,889
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102917	Upgrade of PS #0441, 0491, 0710, 0827, 0852, 1236	\$1,369,217
1047	WASTEWATER - COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT	103000	WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT - GRAVITY AND FORCE MAINS	\$5,221,599
1047	WASTEWATER - COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT	103001	WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT - PUMP STATIONS	\$2,403,588
1047	WASTEWATER - COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT	103002	SUPPLEMENTAL ENVIRONMENT PROJECT (SEP)	\$436,461
1045	WASTEWATER - COLLECTION AND TRANSMISSION LINES CONSENT DECREE PROJECTS	102802	Government Cut FM - Phase 3	(\$37,534)
1045	WASTEWATER - COLLECTION AND TRANSMISSION LINES CONSENT DECREE PROJECTS	102804	South Dade 54 inch PCCP FM Rehabilitation	\$346,893
1045	WASTEWATER - COLLECTION AND TRANSMISSION LINES CONSENT DECREE PROJECTS	102807	Rehabilitation of 54 inch PCCP FM in the City of Miami	\$1,231
1045	WASTEWATER - COLLECTION AND TRANSMISSION LINES CONSENT DECREE PROJECTS	102808	Replace Approximately 25 miles of AC force mains	\$5,845,226
1045	WASTEWATER - COLLECTION AND TRANSMISSION LINES CONSENT DECREE PROJECTS	102809	Opa-Locka Airport 48" PCCP force main replacement	\$400,897
1042	WASTEWATER - PIPES AND INFRASTRUCTURE PROJECTS	101967	WASTEWATER - PIPES AND INFRASTRUCTURE PROJECTS	\$1,444,563
1011	FLOW REDUCTION PROGRAM (FRP)	100050	REHABILITATION OF SEWER MAINS DUE TO I/I - SECTIONAL LINING	\$783,996
1011	FLOW REDUCTION PROGRAM (FRP)	100890	REHABILITATION OF SEWER MAINS DUE TO I/I - CURED-IN-PLACE LINING	\$4,212,149
1011	FLOW REDUCTION PROGRAM (FRP)	101865	PEAK FLOW MANAGEMENT - PUMP STATION OPTIMIZATION PLAN (PSOP)	\$3

WASD Project #	OMB Project Name	WASD Subproject #	WASD Subproject Name	FY 2020 Expenditures
1011	FLOW REDUCTION PROGRAM (FRP)	102800	Rehabilitation of Sewer Mains - Dig and Replace, (Previously called Collection System I/I Repairs)	\$4,795,994
1011	FLOW REDUCTION PROGRAM (FRP)	103019	Rehabilitation of Sewer Mains - CIPP for WPO	\$2,983,911
1012	SANITARY SEWER SYSTEM - IMPROVEMENTS	100055	SPECIAL CONSTRUCTION - SANITARY SEWER IMPROVEMENTS	(\$38,405)
1009	CENTRAL MIAMI-DADE - WASTEWATER TRANSMISSION MAINS AND PUMP STATION IMPROVEMENTS	102200	BISCAYNE BASIN PROJECTS RELATED TO CL-1	\$1,838,144
1027	WASTEWATER - EQUIPMENT	100625	MISCELLANEOUS TOOLS AND EQUIPMENT	\$936,580
1027	WASTEWATER - EQUIPMENT	101729	VEHICLES/TRANSPORTATION EQUIPMENT	\$6,374,776
1027	WASTEWATER - EQUIPMENT	101730	HEAVY CONSTRUCTION EQUIPMENT	\$8,813,104
1024	WASTEWATER - SYSTEM MAINTENANCE AND UPGRADES	100622	WASTEWATER SYSTEM UPGRADES	\$13,638,983
1025	LIFT STATIONS - UPGRADES AND STRUCTURAL IMPROVEMENTS	100623	LIFT STATION STRUCTURAL MAINTENANCE & UPGRADES	\$1,402,558
1010	SOUTH DISTRICT - WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	102050	UPGRADE 4" FM FROM PS 733 ON US1	\$158,367
1015	PUMP STATIONS - IMPROVEMENT PROGRAM	101454	PUMP STATION IMPROVEMENT PROGRAM	\$9,291,473
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)	\$187,395
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	\$3,403,850
1008	NORTH MIAMI-DADE - WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	101985	LEHAM CAUSEWAY	\$283,863
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	\$397,161
1008	NORTH MIAMI-DADE - WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	102245	OJUS SANITARY SEWER WITHIN THE OJUS URBAN AREA DISTRICT (DIRECTOR)	\$433,008
1023	WASTEWATER - TELEMETERING SYSTEM	100621	TELEMETERING SYSTEM - WASTEWATER	\$158,173
1013	WASTEWATER - REGIONAL GENERAL MAINTENANCE AND OFFICE FACILITIES	101506	SOUTH MAINTENANCE CENTER	\$2,614
1013	WASTEWATER - REGIONAL GENERAL MAINTENANCE AND OFFICE FACILITIES	101886	MIAMI GARDENS (CAROL CITY YARD) - MODULAR / STEEL BUILDING	\$94,392
1013	WASTEWATER - REGIONAL GENERAL MAINTENANCE AND OFFICE FACILITIES	103005	SOUTH MIAMI HEIGHTS TRAILER INSTALLATION AND SITE DEVELOPMENT	\$761,495
1029	WASTEWATER TREATMENT PLANTS - REPLACEMENT AND RENOVATION	100627	WASTEWATER TREATMENT PLANTS REHABILITATION	\$9,866,943
1029	WASTEWATER TREATMENT PLANTS - REPLACEMENT AND RENOVATION	101732	SECURITY PROJECTS	\$743,007
1019	SANITARY SEWER SYSTEM - EXTENSION	100877	SANITARY SEWER SYSTEM EXTENSION	\$6,361,368
1019	SANITARY SEWER SYSTEM - EXTENSION	101733	SANITARY SEWER SYSTEM EXTENSION FOR JPA's	\$308,938
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	\$331,855

WASD Project #	OMB Project Name	WASD Subproject #	WASD Subproject Name	FY 2020 Expenditures
1007	SOUTH DISTRICT - WASTEWATER TREATMENT PLANT UPGRADES	102184	SDWWTP FOG RECOVERY STATION	\$413,426
1002	NORTH DISTRICT - WASTEWATER TREATMENT PLANT UPGRADES	101947	NDWWTP FA MONITORING WELLS TO MEET FDEP REQ.	\$1,769,633
1002	NORTH DISTRICT - WASTEWATER TREATMENT PLANT UPGRADES	102220	NT-3C - NDWWTP - EDB # 3 (Replacement Electrical Bldg.)(WIFIA 2)	\$51,204
1003	CENTRAL DISTRICT - WASTEWATER TREATMENT PLANT UPGRADES	102205	2.21.02 PS 1 SEAWALL AND HARDENING PROJECT (FEMA)	\$10,740
1003	CENTRAL DISTRICT - WASTEWATER TREATMENT PLANT UPGRADES	102206	CD2.22.02 - PS 2 BEAUTIFICATION AND HARDENING CITY OF MIAMI (FEMA)	\$3,715
1006	SOUTH DISTRICT - WASTEWATER TREATMENT PLANT EXPANSION (PHASE 3)	102102	SDWWTP FA MONITORING WELL REPLACEMENT	\$15,271
1048	SOUTH DISTRICT EXPANSION	101757	CL-1 - Downtown Transmission FM Extension	\$15,777,323
1048	SOUTH DISTRICT EXPANSION	102034	LAND ACQUISITION FOR WDWTP (WDWRRF) (WT-1L)	\$1,246,111
1048	SOUTH DISTRICT EXPANSION	102055	ST-1B - SDWWTP - Step Feed & Oxygenation Train Rehab	\$494,973
1048	SOUTH DISTRICT EXPANSION	102150	SE-2 - SDWWTP - Municipal Injection Wells (WIFIA 1)	\$28,113,991
1048	SOUTH DISTRICT EXPANSION	103009	SDWWTP - Chlorine Contact & Wells PS (ST-2C)	(\$361,384)
1048	SOUTH DISTRICT EXPANSION	103011	SDWWTP - Electrical Building (ST-2D)(WIFIA 2)	\$2,610,064
1048	SOUTH DISTRICT EXPANSION	103015	ST- 2E - SDWWTP - RAS Piping	\$233,914
1049	PUMP STATION RESILIENCE PROGRAM (PSRP)	101837	REPLACEMENT OF MOTOR CONTROL CENTERS AND SWITCHGEAR AT REGIONAL PUMP STATIONS	\$334,724
1049	PUMP STATION RESILIENCE PROGRAM (PSRP)	101840	REPLACEMENT OF ANVIC DRIVES AND SWITCHGEAR AT PS#0536	\$237,199
1049	PUMP STATION RESILIENCE PROGRAM (PSRP)	101930	REPLACEMENT OF MECHANICAL EQUIPMENT IN REGIONAL PUMP STATIONS	\$14,623
1049	PUMP STATION RESILIENCE PROGRAM (PSRP)	102045	P.S. 2 BASIN UPGRADE - PHASE 1 LOCAL	\$97,194
1049	PUMP STATION RESILIENCE PROGRAM (PSRP)	102160	CONVERSION OF CAN PUMP STATIONS TO SUBMERSIBLE	\$176,401
1049	PUMP STATION RESILIENCE PROGRAM (PSRP)	102163	PS NO. 0559 - REPLACEMENT OF MECH & ELECTRICAL EQUIPMENT	\$57,250
1049	PUMP STATION RESILIENCE PROGRAM (PSRP)	102192	OUT OF COMPLIANCE PUMP STATIONS	\$587,690
1049	PUMP STATION RESILIENCE PROGRAM (PSRP)	102201	PS#0300 - REPLACEMENT OF MECHANICAL & ELECTRICAL EQUIPMENT	\$212,196
1049	PUMP STATION RESILIENCE PROGRAM (PSRP)	103022	Pump Station Upgrades due to Aging Infrastructure	\$23,586
				\$384,733,999

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 deadline	Connected	Violation Number & Type	Certified Receipt Confirmation Number (USPS)	C. Date of Delivery	RER Received C Returned Card	Notes		
FOUO 1	3519 NW 36 ST MIAMI FL 33142	DL REAL STATE LLC	0131210380010	COMMERCIAL	VACANT LAND	\$	-	YES	VEHICLE REPAIR												
FOUO 74	2717 NW 34 ST MIAMI FL 33142	SITE INVEST LLC	3031270010860	INDUSTRIAL	WAREHOUSE	\$	168.00	YES	WAREHOUSE	5119	4/30/2019	90	7/29/2019	Connected (building permit #2020032908 - final 6/3/20)							
FOUO 3	3705 NW 35TH AVE MIAMI FL 33412	AV 3705 LLC	3031210360550	INDUSTRIAL	MIX-USE	\$	753.20	YES	STORE	5875	3/8/2019	90	6/6/2019		F2017003536 (Unsafe Structure)	7017 2400 0000 7831 3933	No Date of Signature	3/22/2019			
FOUO 4	3252 NW 36TH ST MIAMI FL 33127	DL REAL ESTATE LLC	3031210001250	INDUSTRIAL	VACANT LAND	\$	-	NO													
FOUO 5	3430 NW 38 ST MIAMI FL 33412	JACS 38 LLC	3031210360530	INDUSTRIAL	WAREHOUSE	\$	475.61	YES	WAREHOUSE	5905	4/17/2019	365	4/17/2020			7017 2400 0000 7831 8242	4/22/2019	5/1/2019			
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			Connected C2019113753 - P2019069995							
FOUO 7	3805 NW 35 AVE MIAMI FL 33412	ELEVATOR CONSTRUCTIONS LOCAL 71 HOLDING CO INC	3031210360370	INDUSTRIAL	WAREHOUSE	\$	229.60	YES	WAREHOUSE	5901	4/17/2019	365	4/17/2020			7017 2400 0000 7831 8204	4/23/2019	5/1/2019			
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						
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							
FOUO 10	3435 NW 37 ST MIAMI FL 33412	ROSA LUISA MARTINEZ TRS	3031210360560	INDUSTRIAL	RESIDENTIAL	\$	1,232.00	YES	OFFICE	5935	6/18/2019	365	6/18/2020								
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							
FOUO 12	3360 NW 38 ST MIAMI FL 33412	JACS 38 LLC	3031210360510	INDUSTRIAL	WAREHOUSE				YES	5904	4/17/2019	365	4/17/2020			7017 2400 0000 7831 8235	4/22/2019	5/1/2019			
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			Connected C2019192870 - P2019076186							
FOUO 14	ADDRESS NOT AVAILABLE	MAESTRE CONSTRUCTION INC	3031210360300	INDUSTRIAL	VACANT LAND	\$	-	YES	RESIDENCE												
FOUO 15	3850 NW 35 AVE MIAMI FL 33142	MIAMI-DADE EXPRESSWAY AUTHORITY	3031210001100	INDUSTRIAL	VACANT GOVERNMENTAL	\$	-	YES	WAREHOUSE												
FOUO 16	3354 NW 38 ST MIAMI FL 33412	JACS 38 LLC	3031210360500	INDUSTRIAL	MANUF-FOOD PROCESSING	\$	-	NO	YES	5903	4/17/2019	365	4/17/2020			7017 2400 0000 7831 8288	4/22/2019	5/1/2019			
FOUO 17	3352 NW 38 ST MIAMI FL 33412	JACS 38 LLC	3031210360720	INDUSTRIAL	SINGLE FAMILY RESIDENCE	\$	-	NO	YES	5933	6/18/2019	365	6/18/2020			7017 2400 0000 7831 6675	6/24/2019	7/8/2019			
FOUO 18	3405 NW 38 ST MIAMI FL 33412	JOSE LAZARO RODRIGUEZ JNR REVOCABLE LIVING TRUST NIRZA RODRIGUEZ T	3031210360390	INDUSTRIAL	VACANT LAND-INDUSTRIAL	\$	-	NO													
FOUO 19	3333 NW 38 ST MIAMI FL 33412	MIAMI DADE COUNTY MIAMI DADE TRANSIT	3031210440010	INDUSTRIAL	VACANT GOVERNMENTAL	\$	-	YES	WAREHOUSE												
FOUO 20	3300 NW 37 ST MIAMI FL 33412	ART BY GOD INC	3031210360620	INDUSTRIAL	MANUF-FOOD PROCESSING	\$	40,654.32	YES	WAREHOUSE	5879							7017 2400 0000 7831 3964	3/20/2019	4/4/2019		
FOUO 21	3271 NW 37 ST MIAMI FL 33412	38 MIAMI INVESTMENTS LLC	3031210140390	INDUSTRIAL	WHOLESALE OUTLET	\$	504.00	YES	WAREHOUSE	5890	3/21/2019	365	3/21/2020			7017 2400 0000 7831 4060	3/27/2019	4/9/2019			
FOUO 22	ADDRESS NOT AVAILABLE	BP 36TH STREET PROPERTY INC	3031210140250	INDUSTRIAL	PARKING LOT-MOBILE HOME	\$	-	NO													
FOUO 23	3820 NW 32 AVE MIAMI FL 33412	LR & EA LLC	3031210140620	INDUSTRIAL	MANUF-FOOD PROCESSING	\$	21,391.44	YES	VEHICLE PAINT	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	ELEND AND EDDY INVEST CORP.	3031210140630	INDUSTRIAL	WAREHOUSE	\$	613.09	YES	WAREHOUSE	5892	4/11/2019	365	4/11/2020			7017 2400 0000 7831 8136	4/17/2019	5/1/2019			
FOUO 25	3920 NW 32 AVE MIAMI FL 33412	MIAMI DADE EXPRESSWAY AUTHORITY	3031210140730	INDUSTRIAL	INDUSTRIAL LIGHT MFG	\$	611.18	YES	WAREHOUSE	5900	4/17/2019	365	4/17/2020		F2007107069 (Unsafe Structure)	7017 2400 0000 7831 8198	4/22/2019	5/1/2019	9020 FAILURE TO OBTAIN 48 YR. BUILDING RE-CERTIFICATION; SEC. 8-11 (f) CODE OF MIAMI-DADE COUNTY AND THE FLORIDA BUILDING CODE Last activity 02/17/2020 INCL AND VACATE LETTER NOT MAILED, CASE UNDER ADMINISTRATIVE REVIEW BY M.L.E.E.		
FOUO 26	3916 NW 32 AVE MIAMI FL 33412	MIAMI DADE EXPRESSWAY	3031210140720	INDUSTRIAL	INDUSTRIAL LIGHT MFG	\$	613.09	YES	WAREHOUSE	5899	4/17/2019	365	4/17/2020		F2007107549 (Unsafe Structure)	7017 2400 0000 7831 8181	4/22/2019	5/1/2019	9004 DETERIORATED STRUCTURE OR STRUCTURAL PARTS; SEC. 8-5 (b)(2)(iv) 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)(iv) CODE OF MIAMI-DADE COUNTY AND THE FLORIDA BUILDING CODE 9020 FAILURE TO OBTAIN 48 YR. BUILDING RE-CERTIFICATION; SEC. 8-11 (f) CODE OF MIAMI-DADE COUNTY AND THE FLORIDA BUILDING CODE		
FOUO 27	ADDRESS NOT AVAILABLE	BP 36TH STREET PROPERTY INC	3031210140260	RESIDENTIAL	PARKING LOT-MOBILE HOME	\$	-	NO													
FOUO 28	3244 NW 37 ST MIAMI FL 33412	BP 36TH STREET PROPERTY INC	3031210140270	RESIDENTIAL	PARKING LOT-MOBILE HOME	\$	-	NO													
FOUO 29	3812 NW 32 AVE MIAMI FL 33412	MICHAEL C GARDNER	3031210140640	INDUSTRIAL	WAREHOUSE	\$	610.51	YES	WAREHOUSE	5893	4/11/2019	365	4/11/2020	Connected Bldg. C2020102449 Permit 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	905.1 VIOLATIONS: Installation of plumbing pump system connected to well, mechanical duct work, and electrical circuit for well pump inside warehouse area and Electrical Service		
FOUO 31	3914 NW 32 AVE MIAMI FL 33412	SEDINA 3914 LLC	3031210140710	INDUSTRIAL	MANUF-FOOD PROCESSING	\$	610.51	YES	WAREHOUSE	5898	4/25/2019	365	4/25/2020			7017 2400 0000 7831 8334	No Date of Signature	5/6/2019			
FOUO 32	3908 NW 32 AVE MIAMI FL 33412	SAMUEL T VIVANO 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 33	3236 NW 37 ST MIAMI FL 33412	O'REILLY AUTOMOTIVE STORES INC	3031210140280	INDUSTRIAL	PARKING LOT-MOBILE HOME	\$	-	NO													
PHASE 1	3241 NW 38 ST MIAMI FL 33142	SCANDINAVIAN DEVELOPMENT LLC	3031210140460	INDUSTRIAL		NO	NO	N/A	YES	5606	7/16/2018			Connected C2019045141 - P2019026728							
FOUO 35	3245 NW 37 ST MIAMI FL 33412	MONSTER VENTURES LLC	3031210140360	INDUSTRIAL	MANUF-FOOD PROCESSING	\$	17,640.00	YES	WAREHOUSE	5889	3/21/2019	365	3/21/2020			7017 2400 0000 7831 4053	4/1/2019	4/4/2019			
FOUO 36	3804 NW 32 AVE MIAMI FL 33412	MAKEN HOLDING LLC	3031210140660	INDUSTRIAL	PARKING LOT-MOBILE HOME	\$	-	NO													
FOUO 37	3802 NW 32 AVE MIAMI FL 33412	MAKEN INVESTMENT GROUP LLC	3031210140670	INDUSTRIAL	WAREHOUSE	\$	609.90	YES	WAREHOUSE												
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 39	3900 NW 32 AVE MIAMI FL 33412	IORELLA PERFUMES CORP	3031210140680	INDUSTRIAL	WAREHOUSE	\$	-	NO	YES	5895	4/11/2019	365	4/11/2020		F201111458 (Unsafe Structure)						
FOUO 40	ADDRESS NOT AVAILABLE	AUTOMOTIVE PROPERTIES WEST LLC C/O TRACY SEIDLE	3031210550020	COMMERCIAL	PARKING LOT-MOBILE HOME	\$	-	YES	RESIDENCE/DUPLEX												
FOUO 6	3800 NW 35 AVE MIAMI FL 33412	ELEVATOR CONSTRUCTIONS LOCAL 71 HOLDING CO INC	3031210001251	INDUSTRIAL	AUTOMOTIVE	\$	3,337.60	YES	WAREHOUSE	5872	3/8/2019	365	3/8/2019	Connected, bldg. C2020048565			7017 2400 0000 7831 3926	No Date of Signature	3/22/2019		
FOUO 42	ADDRESS NOT AVAILABLE	AUTOMOTIVE PROPERTIES WEST LLC C/O TRACY SEIDLE	3031210550030	COMMERCIAL	PARKING LOT-MOBILE HOME	\$	-	YES	SERVICE STATION												
FOUO 41	3175 NW 37 ST MIAMI FL 33142	AUTOMOTIVE PROPERTIES WEST LLC C/O TRACY SEIDLE	3031210030070	INDUSTRIAL	AUTOMOTIVE-MARINE	\$	2,273.60	YES	VEHICLE DEALER	5873	3/8/2019	365	3/8/2020	Connected, bldg. C2019196856 - P2020001215			7017 2400 0000 7831 3919	3/22/2019	4/9/2019		
FOUO 9	3455 NW 37 ST MIAMI FL 33412	HEMBLY O EULER	3031210360551	INDUSTRIAL	AUTOMOTIVE	\$	722.40	YES	VEHICLE REPAIR	5876				Connected, bldg. C2019188710 - P2019063213			7017 2400 0000 7831 3940	4/1/2019	4/4/2019		
FOUO 45	3235 NW 37 ST MIAMI FL 33412	ROJASFANK CORPORATION	3031210140350	INDUSTRIAL	WAREHOUSE	\$	583.97	YES	WAREHOUSE	5888	3/21/2019	365	3/21/2020								
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	5877				Connected, bldg. C2019209631 - P2019078753			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	5878	Unknown			Connected, bldg. C2019086261 - P2019032110							
FOUO 48	3825 NW 32 AVE MIAMI FL 33412	COHEN AIRPORT WAREHOUSES LLC	3031210430042	INDUSTRIAL	MANUF-FOOD PROCESSING	\$	-	NO	YES	5906	4/25/2019	365	4/25/2020		199952903 (Work w/o permit or failure to maintain)			7017 2400 0000 7831 8358	5/1/2019	5/6/2019	12/22/17 - TICKET 729815 WAS PAID ON 9/17/2020. NO PERMITS OBTAINED TO DATE TO CORRECT VIOLATIONS. CASE IS IN LIEN DEPARTMENT.
FOUO 49	3945 NW 32 AVE MIAMI FL 33412	COHEN AIRPORT WAREHOUSES LLC	3031210430041	INDUSTRIAL	WAREHOUSE	\$	721.45	YES	WAREHOUSE												
FOUO 50	3166-70 NW 38 ST MIAMI FL 33142	PRIMO RENTALS 2 LLC	3031210030050	RESIDENTIAL	MULTIFAMILY-DUPLEX	\$	2,016.00	YES	DUPLEX BOTH	5929	6/17/2019	365	6/16/2020			7017 2400 0000 7831 6620	No Date of Signature	7/5/2019			
FOUO 51	3150-84 NW 38 ST MIAMI FL 33142	YOSEI GARCIA	3031210030040	INDUSTRIAL	MULTIFAMILY-DUPLEX	\$	2,016.00	YES	DUPLEX BOTH	5930	6/17/2019	365	6/17/2020			7017 2400 0000 7831 6637	No Date of Signature	7/26/2019			
FOUO 52	3140 NW 38 ST MIAMI FL 33142	REINA E ACOSTA JESUS H AGOSTA & W ETALS (IRTS)	3031210040050	INDUSTRIAL	SINGLE FAMILY RESIDE CE	\$	1,232.00	YES	RESIDENCE	5920	5/30/2019	365	5/30/2020			7017 2400 0000 7831 8433	6/19/2019	6/25/2019			

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	
FOLIO 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						
FOLIO 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	Connected, bldg. C2019160563 - P2019061872		7017 2400 0000 7831 8327	5/2/2019	5/7/2019		
FOLIO 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				Connected, bldg. C2019209260 - P2019081259		7017 2400 0000 7831 3995	4/1/2019	4/4/2019		
FOLIO 59	3800 NW 31 AVE MIAMI FL 33412	MARVIN BOCHNER INC	3031210450020	INDUSTRIAL	WAREHOUSE	\$ 1,289.23	YES	WAREHOUSE		5925		365	5/30/2019		F2019005801 (Unsafe Structure)					8-11 (F)(V)(S) FAILURE OF THE OWNER OF A 40 YEAR OLD BUILDING TO COMPLETE REQUIRED REPAIRS OR MODIFICATIONS
FOLIO 60	3091 NW 33 ST MIAMI FL 33412	PEPIE HARRIS TANDHASETTI TRS PEPIE TANDHASETTI REVOCABLE TR	3031280130030	RESIDENTIAL	SINGLE FAMILY RESIDENCE	\$ 1,232.00	YES	RESIDENCE	YES	5925	5/30/2019	365	5/30/2020			7017 2400 0000 7831 8488	No Date of Signature	6/26/2019		
FOLIO 61	ADDRESS NOT AVAILABLE	MIAMI DADE COUNTY MIAMI DADE HOUSING AGENCY	3031280130050	RESIDENTIAL	VACANT GOVERNMENTAL	\$ -	YES	DUPLEX REAR	YES	5926	5/30/2019	365	5/30/2020							
FOLIO 62	3074 NW 33 ST MIAMI FL 33412	ADRIANA GONZALEZ	3031280111660	RESIDENTIAL	MULTIFAMILY-DUPLEX	\$ 2,016.00	YES	RESIDENCE PLUS	YES	5926	5/30/2019	365	5/30/2020							
FOLIO 63	3068 NW 33 ST MIAMI FL 33412	MARIA E GIL & OGILMA GIL	3031280111651	RESIDENTIAL	SINGLE FAMILY RESIDENCE	\$ 1,232.00	YES	RESIDENCE	YES	5919	5/30/2019	365	5/30/2020			7017 2400 0000 7831 8426	No Date of Signature	6/20/2019		
FOLIO 64	3056 NW 33 ST MIAMI FL 33412	WENDY M ROSARIO	3031280111650	RESIDENTIAL	SINGLE FAMILY RESIDENCE	\$ 1,232.00	YES	RESIDENCE	YES	5928	6/17/2019	365	6/17/2019			7017 2400 0000 78316613	No Date of Signature	6/12/2019		
FOLIO 65	3050 NW 33 ST MIAMI FL 33412	LUISA SUMMERS	3031280111642	RESIDENTIAL	SINGLE FAMILY RESIDENCE	\$ 1,232.00	YES	RESIDENCE	YES	5917	5/30/2019	365	5/30/2020							
FOLIO 66	3044 NW 33 ST MIAMI FL 33412	EVA RODRIGUEZ	3031280111641	RESIDENTIAL	SINGLE FAMILY RESIDENCE	\$ 1,232.00	YES	RESIDENCE	YES	5921	5/30/2019	365	5/30/2020			7017 2400 0000 7831 8440	No Date of Signature	No RER Stamp of Returned Date		
FOLIO 67	3090 NW 33 ST MIAMI FL 33143	RICARDO PEREZ	3031280111670	RESIDENTIAL	MULTIFAMILY-DUPLEXES-4	\$ 8,064.00	YES	DUPLEX BOTH	YES	5916	5/30/2019	365	5/30/2020							
FOLIO 68	3034 NW 33 ST MIAMI FL 33412	ESTRELLA PEREZ & OSVALDO DOMINGUEZ	3031280111640	RESIDENTIAL	MULTIFAMILY-DUPLEXES-2	\$ 2,016.00	YES	RESIDENCE	YES	5922	5/30/2019	365	5/30/2020							
FOLIO 69	3032 NW 33 ST MIAMI FL 33412	YUDY LILIANA EUSCATIGUE	3031280111630	RESIDENTIAL	SINGLE FAMILY RESIDENCE	\$ 1,232.00	YES	RESIDENCE	YES	5931	6/17/2019	365	6/17/2020							
FOLIO 70	3030 NW 33 ST MIAMI FL 33412	EDUARDO MARTINEZ - HEIDY E MARTINEZ	3031280111621	RESIDENTIAL	SINGLE FAMILY RESIDENCE	\$ 1,232.00	YES	RESIDENCE	YES	5934	6/18/2019	365	6/18/2020							
FOLIO 71	ADDRESS NOT AVAILABLE	OWNER NAME NOT AVAILABLE	3031280111620	RESIDENTIAL	SINGLE FAMILY RESIDENCE	\$ 1,232.00	YES	RESIDENCE												
FOLIO 72	NW 33 ST MIAMI FL 33412	MIAMI DADE COUNTY MIAMI DADE HOUSING AGENCY	3031280130120	RESIDENTIAL	VACANT - GOVERNMENTAL	\$ -	YES	RESIDENCE												
FOLIO 73	ADDRESS NOT AVAILABLE	MIAMI DADE COUNTY MIAMI DADE HOUSING AGENCY	3031280130110	RESIDENTIAL	VACANT - GOVERNMENTAL	\$ -	YES	RESIDENCE												
FOLIO 43	3701 NW 32 AVE MIAMI FL 33412	3701 NW 32ND AVE LLC	3031210030061	COMMERCIAL	AUTOMOTIVE OR MARINE	\$ 1,293.60	YES	WAREHOUSE	YES	5884	3/21/2019	365	3/21/2020	Connected, bldg. C2019183844 - P2019066614		7017 2400 0000 7831 4008	Unknown	4/4/2019		
FOLIO 75	3455 NW 30 AVE MIAMI FL 33412	2900 NW THIRTY SIXTH STREET LLC	3031280000021	INDUSTRIAL	WAREHOUSE	\$ 1,683.92	YES	VEHICLE REPAIR	YES	5914	4/18/2019	365	4/18/2020			7017 2400 0000 7831 8303	No Date of Signature	5/7/2019		
FOLIO 76	2950 NW 35 ST MIAMI FL 33412	LZG LLC	3031280000020	INDUSTRIAL	WAREHOUSE	\$ 1,124.20	YES	FACTORY												
FOLIO 77	ADDRESS NOT AVAILABLE	AJANY PEREZ	3031270010870	INDUSTRIAL	VACANT LAND	\$ -	NO													
FOLIO 78	2901 NW 34 ST MIAMI FL 33142	TUCCI LLC	3031280000031	INDUSTRIAL	MANUF-FOOD PROCESSING	\$ 63,754.88	YES	WAREHOUSE	YES	5915	4/18/2019	365	4/18/2019			7017 2400 0000 7831 8310	4/29/2019	5/7/2019		
FOLIO 79	3400 NW 27 AVE MIAMI FL 33142	CAMILO GOMEZ DANIEL JARAMILLO GALLO	3031270010640	COMMERCIAL	RETAIL	\$ 858.48	YES	STORE	YES	5910	4/18/2019	365	4/18/2020							
FOLIO 80	3230 NW 30 AVE MIAMI FL 33412	AIXA SHAMAILIEN	3031280111610	RESIDENTIAL	MULTIFAMILY-DUPLEX	\$ 4,032.00	YES	RESIDENCE	YES	5918	5/30/2019	365	5/30/2020			7017 2400 0000 7831 8419	No Date of Signature	6/20/2019		
FOLIO 81	2787 NW 34 ST MIAMI FL 33412	LEONARDO GARCIA & SEVERINO D GARCIA	3031270010820	INDUSTRIAL	WAREHOUSE	\$ -	NO	NO	YES	5911	4/18/2019	365	4/18/2020			7017 2400 0000 7831 8273	4/29/2019	5/6/2019		
FOLIO 82	2747 NW 34 ST MIAMI FL 33142	LEONARDO GARCIA & W ELIZABETH	3031270010840	INDUSTRIAL	WAREHOUSE	\$ 239.40	YES	WAREHOUSE	YES	5912	4/18/2019	365	4/18/2020			7017 2400 0000 7831 8280	4/29/2019	5/6/2019		
FOLIO 83	2727 NW 34 ST MIAMI FL 33142	FLAMES ENTERPRISE INC	3031270010850	INDUSTRIAL	MANUF-FOOD PROCESSING	\$ 10,707.48	YES	VEHICLE REPAIR	YES	5913	4/18/2019	365	4/18/2020			7017 2400 0000 7831 8297	No Signature	5/7/2019		
FOLIO 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		8010 WORK DONE WITHOUT PERMIT OR WITH EXPIRED PERMIT: SEC. 8-5 (H)(3) AND 8-5 (H)(3)(B) CODE OF MIAMI-DADE COUNTY AND THE FLORIDA BUILDING CODE 8020 FAILURE TO OBTAIN 40 YR. BUILDING RE-CERTIFICATION: SEC. 8-11 (F) CODE OF MIAMI-DADE COUNTY AND THE FLORIDA BUILDING CODE 8025 DANGEROUS TO HUMAN LIFE AND WELFARE: SEC. 8-5 (H)(2) CODE OF MIAMI-DADE COUNTY AND THE FLORIDA BUILDING CODE
FOLIO 85	ADDRESS NOT AVAILABLE	BP 36TH STREET PROPERTY INC	3031210140240	INDUSTRIAL	PARKING LOT-MOBILE HOME	\$ -	NO													
FOLIO 86	3855 NW 35 AVE MIAMI FL 33142	MIAMI-DADE COUNTY MIAMI-DADE TRANSIT	3031210000901	INDUSTRIAL	WAREHOUSE-HEAVY MFG	\$ 396.03	YES	POWER PLANT												
FOLIO 87	3295 NW 37 ST MIAMI FL 33142	3 CS DEVELOPMENT GROUP LLC	3031210140420	INDUSTRIAL	VACANT LAND	\$ -	NO													
FOLIO 88	3100 NW 38 ST MIAMI FL 33142	MARVIN BOCHNER INC	3031210040080	INDUSTRIAL	PARKING LOT-MOBILE HOME	\$ -	NO													
FOLIO 89	4030 NW 32ND AVE MIAMI FL 33142	MIAMI DADE CO EXPRESSWAY AUTHORITY	3031210140750	INDUSTRIAL	INDUSTRIAL LIGHT MFG	\$ 1,142.06	YES	WAREHOUSE												
FOLIO 90	ADDRESS NOT AVAILABLE	MIAMI DADE COUNTY MIAMI DADE HOUSING AGENCY	3031280130040	RESIDENTIAL	VACANT - GOVERNMENTAL	\$ -	YES	RESIDENCE												
FOLIO 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	Connected, bldg. C2019151023 - P2019033962	F2018004644 (Unsafe Structures)	7017 2400 0000 7831 4022	No Date of Signature	4/4/2019		8020 FAILURE TO OBTAIN 40 YR. BUILDING RE-CERTIFICATION: SEC. 8-11 (F) CODE OF MIAMI-DADE COUNTY AND THE FLORIDA BUILDING CODE 8027 THE ELECTRICAL OR MECHANICAL INSTALLATIONS OR SYSTEMS CREATE A HAZARDOUS CONDITION: SEC. 8-5 (H)(2)(v) CODE OF MIAMI-DADE COUNTY AND THE FLORIDA BUILDING CODE 8030 WORK DONE WITHOUT PERMIT OR WITH EXPIRED PERMIT: SEC. 8-5 (H)(3) AND 8-5 (H)(3)(B) CODE OF MIAMI-DADE COUNTY AND THE FLORIDA BUILDING CODE
FOLIO 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	Connected, bldg. C2019209278 - P2019081284		7017 2400 0000 7831 4039	3/27/2019	4/4/2019		
FOLIO 13	3429 NW 38 ST MIAMI FL 33412	JOSE LAZARO RODRIGUEZ JNR REVOCABLE LIVING TRUST NIRZA RODRIGUEZ T	3031210360380	INDUSTRIAL	OFFICE BLDG	\$ 252.00	YES	WAREHOUSE	YES	5902	4/17/2019	365	4/17/2020	Connected, bldg. C2019168094 - P2020003915		7017 2400 0000 7831 8211	4/29/2019	5/6/2019		
FOLIO 58	3145 NW 38 ST MIAMI FL 33412	MARVIN BOCHNER INC	3031210450030	INDUSTRIAL	WAREHOUSE	\$ 2,140.04	YES	WAREHOUSE	YES	5909	4/18/2019	365	4/18/2020	Connected, building permit #2020018841 - final 1/6/20						
FOLIO 57	3165/67 NW 38 ST MIAMI FL 33412	LEROY M BERRY	3031210030010	COMMERCIAL	MULTIFAMILY-DUPLEX	\$ 2,016.00	YES	DUPLEX BOTH	YES	5923	5/30/2019	365	5/30/2020	Connected, bldg. C2020094155 - P2020042421		7017 2400 0000 7831 8464	No Date of Signature	6/25/2019		
FOLIO 56	3185/87 NW 38 ST MIAMI FL 33412	LEROY M BERRY	3031210030020	COMMERCIAL	MULTIFAMILY-DUPLEX	\$ 2,016.00	YES	DUPLEX BOTH	YES	5927	5/30/2019	365	5/30/2020	Connected, building permit #2020046731 - final 5/22/20						
PHASE 1	3233 NW 38 ST MIAMI FL 33142	SEABASTOPOL INTL INC	3031210140545	INDUSTRIAL	STORE	NO	YES	STORE		N/A				C2017022826 - P2017022729						
PHASE 1	3230 NW 38 ST MIAMI FL 33142	MIAMI COMPRESSOR REBUILDERS INC	3031210140510	INDUSTRIAL	VEHICLE REPAIR	YES / N00038067	YES / 8923917854	VEHICLE REPAIR		N/A				C2017133460 - P2017060040						
PHASE 1	3259 NW 38 ST MIAMI FL 33142	DANDY SAND INVESTMENTS LLC	3031210140590	INDUSTRIAL	WAREHOUSE	NO	YES / 5387181204	WAREHOUSE		N/A				NO BUILDING ON PARCEL - SAME OWNER AS #3255 NW 38 ST						
PHASE 1	3270 NW 38 ST MIAMI FL 33142	3 CS DEVELOPMENT GROUP LLC	3031210140450	INDUSTRIAL	FACTORY	YES / N00036403	YES / 4908646010	FACTORY		N/A				C2016179164 - P2017019581						
PHASE 1	3250 NW 38 ST MIAMI FL 33142	EBERLE FRANCOIS	3031210140480	INDUSTRIAL	VEHICLE DEALER	YES / N00041099	YES / 1545132524	VEHICLE DEALER		N/A				C2018008146 - P2018007245						

Color Code: Vacant Land or no property to connect