

IN THE UNITED STATES DISTRICT COURT
FOR THE SOUTHERN DISTRICT OF FLORIDA
MIAMI DIVISION

Civil Action No. 1:12-cv-24400-FAM

THE UNITED STATES OF AMERICA et al.,)
)
Plaintiffs,)
)
v.)
)
MIAMI-DADE COUNTY, FLORIDA,)
)
Defendant.)
)
)
)

**UNITED STATES’ TWELFTH STATUS REPORT
FOR THE JULY 1, 2019 TO DECEMBER 31, 2019 REPORTING PERIOD**

Pursuant to this Court’s April 9, 2014 Order Requiring Status Reports (Doc. No. 157) and this Court’s Order Granting Unopposed Motion for Extension of Time (Doc. No. 177), the United States of America submits this Twelfth Status Report covering the reporting period of July 1, 2019 to December 31, 2019 (“Reporting Period”). The United States will submit the next Status Report for the period of January 1, 2020 to June 30, 2020 no later than sixty (60) days after EPA receives Miami-Dade County’s (“Miami-Dade’s”) Semi-Annual Report for that time period to be submitted pursuant to Paragraph 33 of the Consent Decree entered in this matter by the Court on April 9, 2014. (*See also* Doc. No. 177).

This Status Report provides the Court with information regarding Sanitary Sewer Overflows (“SSOs”) that occurred during the applicable Reporting Period and Miami-Dade’s compliance with the Consent Decree during the applicable Reporting Period. The State of

Florida Department of Environmental Protection (“FDEP”) and Miami-Dade were provided with the opportunity to review this Status Report prior to this filing and do not dispute underlying facts of the matters reported herein.

A. SSOs During the Reporting Period.

Please see Exhibit 1 of this Status Report for a table of the fifty-four (54) SSOs (not including Building Backups, as that term is defined in Paragraph 8.(a). of the Consent Decree) that occurred during this Reporting Period. These fifty-four (54) SSOs had a combined total volume of 3,450,135 gallons.

From EPA’s review of Miami-Dade’s reporting regarding these SSOs, it appears that Miami-Dade timely and appropriately responded to and addressed these SSOs. Of the total fifty-four (54) SSOs reported (not including Building Backups), only seventeen (17) SSOs were ten thousand (10,000) gallons or greater. Five (5) of the seventeen (17) SSOs that were ten thousand (10,000) gallons or greater occurred because of corrosion. Five (5) of the seventeen (17) SSOs that were ten thousand (10,000) gallons or greater were caused by non-County contractors. Two (2) of the seventeen (17) SSOs that were ten thousand (10,000) gallons or greater were caused by County contractors. Three (3) of the seventeen (17) SSOs that were ten thousand (10,000) gallons or greater occurred because of non-standard or sub-standard material. The remaining two (2) of the seventeen (17) SSOs that were ten thousand (10,000) gallons or greater were caused by a point load. Long-term solutions to the force main SSOs will be addressed by implementation of the Force Main Operations, Preventative Maintenance and Assessment/Rehabilitation Program (Paragraph 19.(g). of the Consent Decree) and implementation of the Appendix D capital

improvements for the asbestos cement force mains pursuant to Paragraph 19.(i). of the Consent Decree.

Of the seventeen (17) larger SSOs, only five (5) reached waters of the United States and thus are subject to potential federal stipulated penalties pursuant to Paragraph 42.(a).(ii). of the Consent Decree and the Court's Order Modifying Section X of the Consent Decree (Doc. No. 156). The remaining twelve (12) larger SSOs are subject to potential FDEP-only stipulated penalties pursuant to Paragraphs 42.(a).(v). and 42.(a).(ii). of the Consent Decree and the Court's Order Modifying Section X of the Consent Decree (Doc. No. 156). On February 11, 2020, FDEP demanded payment of stipulated penalty for the FDEP-only SSOs. The parties have agreed to demand payment of stipulated penalty on an annual basis. The parties will report on whether stipulated penalties were demanded for five (5) larger SSOs that reached waters of the United States in the next Status Report.

Of the remaining thirty-seven (37) smaller SSOs (less than ten thousand (10,000) gallons) (not including Building Backups) that occurred during the Reporting Period, the SSOs were caused by corrosion (four (4) SSOs); non-County contractors breaking a force main, gravity main, or automatic air release valve (six (6) SSOs); County contractors blocking a gravity main (one (1) SSO); broken asbestos cement force main due to point load (one (1) SSO); non-standard materials (one (1) SSO); grease, rags, rocks, debris, or other blockages (twelve (12) SSOs); broken force main due to improper bedding or split in the pipe (two (2) SSOs); broken or leaking air release valve (five (5) SSOs); failure at pump stations (four (4) SSOs); and interruption in power (one (1) SSO). Non-third party causes will be addressed by Miami-Dade's Capacity, Management, Operations and Maintenance ("CMOM") Programs that have been developed and

are being implemented pursuant to the Consent Decree as follows: the Fats, Oils and Grease (“FOG”) Control Program (required by Paragraph 19.(a). of the Consent Decree); the Sewer Overflow Response Plan (“SORP”) (required by Paragraph 19.(b) of the Consent Decree); the Gravity Sewer System Operations and Maintenance Program (required by Paragraph 19.(e). of the Consent Decree); the Force Main Operations, Preventative Maintenance and Assessment/Rehabilitation Program (required by Paragraph 19.(g). of the Consent Decree); Project 4.9 of Appendix D for replacement of approximately 30 miles of asbestos cement force mains (required by Paragraph 19.(i). of the Consent Decree); and the Pump Station Operations and Preventative Maintenance Program (required by Paragraph 19.(f). of the Consent Decree). SSOs attributable to third party contractor damage are not required to be addressed by a specific CMOM Program required by the Consent Decree.

Only two (2) of these smaller SSOs that occurred during the Reporting Period are subject to federal stipulated penalties pursuant to Paragraph 42.(a).(i). of the Consent Decree and the Court’s Order Modifying Section X of the Consent Decree because they reached waters of the United States. The United States will report on whether stipulated penalties were demanded for this SSO in the next Status Report.

Only eight (8) of these smaller SSOs that occurred during the Reporting Period are subject to FDEP-only stipulated penalties pursuant to Paragraphs 42.(a).(v). and 42.(a).(i). of the Consent Decree and the Court’s Order Modifying Section X of the Consent Decree because they were between 1,000 and 10,000 gallons and did not reach waters of the United States. On February 11, 2020, FDEP demanded payment of stipulated penalty for the FDEP-only SSOs.

In addition to the fifty-four (54) SSOs discussed above, Miami-Dade experienced two (2) Building Backups that totaled ten (10) gallons. See **Exhibit 2** of this Status Report. These Building Backups were caused by a County crew cleaning the line and a gravity main blockage. None of these Building Backups resulted in a SSO that reached waters of the United States and thus would be subject to potential stipulated penalties pursuant to Paragraph 42.(a). of the Consent Decree and the Court's Order Modifying Section X of the Consent Decree. In addition, none of the resultant SSOs was greater than or equal to 1,000 gallons and thus would be subject to FDEP-only stipulated penalties pursuant to Paragraph 42.(a).(v). of the Consent Decree and the Court's Order Modifying Section X of the Consent Decree. At this time, EPA believes that Miami-Dade is appropriately reporting and responding to SSOs and that the Consent Decree contains the necessary provisions to adequately address the causes of these SSOs to eliminate and prevent such SSOs from occurring in the future.

B. Compliance Status of Consent Decree Requirements During the Reporting Period.

i. Submittal of Deliverables:

The following Deliverables were due and/or submitted during this Reporting Period.

Deliverable Due	Consent Decree Paragraph	Deliverable Submitted on time?	Reason for delay in submission (if any)	Date or estimated date to be submitted (if late)	Stipulated Penalty Assessed for failure to timely submit?
Quarterly Report #22	32 (Section IX)	Yes	N/A	N/A	N/A
Quarterly Report #23	32 (Section IX)	Yes	N/A	N/A	N/A
Semi-Annual Report #11	33 (Section IX)	Yes	N/A	N/A	N/A

Miami-Dade timely submitted its twenty-second Quarterly Report on July 30, 2019, ahead of the July 31, 2019 deadline, for the calendar quarter of April 1, 2019 through June 30, 2019. Miami-Dade also timely submitted its twenty-third Quarterly Report on October 30, 2019, ahead of the October 31, 2019 deadline, for the calendar quarter of July 1, 2019 through September 30, 2019. Based upon all the information EPA has to date, both of these Quarterly Reports were consistent with the provisions of Paragraph 32 of the Consent Decree.

Miami-Dade timely submitted its eleventh Semi-Annual Report on July 30, 2019, ahead of the July 31, 2019 deadline, for the semi-annual period of January 1, 2019 through June 30, 2019. Based upon all the information EPA has to date, this Semi-Annual Report was consistent with the provisions of Paragraph 33 of the Consent Decree.

ii. **Implementation of CMOM Programs in Paragraphs 18 and 19 in the Consent Decree During the Reporting Period.**

All of the CMOM Programs required by Paragraphs 18 and 19 of the Consent Decree have been submitted and approved by EPA and FDEP. The County has progressed with program elements included within the Consolidated Schedule as reported in semi-annual and annual reports. Upon EPA/FDEP's approval of the CMOM Programs Consolidated Schedule of Implementation Activities, the County will make any necessary adjustments to the schedule, and report on the progress in future reports as required by the Consent Decree. The United States will continue to report on (i) any change of approval status, and (ii) implementation of these required CMOM Programs in the applicable future Status Reports to the Court.

iii. Compliance with Deadlines in Appendix D Prior to and During the Reporting Period.

Paragraph 19.(i). and Appendix D of the Consent Decree set forth five hundred ninety-nine (599) interim milestone deadlines, in addition to eighty-one (81) final construction deadlines for specific capital improvement projects. For each interim event outlined in Appendix D (i.e. Engineering Design, Permitting, and Procurement), there is a start and a finish interim milestone deadline. In addition, the Construction start date is also an interim milestone deadline. Miami-Dade has completed forty (40) of these capital improvement Projects prior to or during this applicable Reporting Period (Projects 1.1, 1.9, 2.3, 2.4, 2.5, 2.17, 2.21, 2.23, 2.24, 2.28, 2.29, 3.1, 3.7, 3.9, 3.10, 3.11, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.10, 5.1, 5.2, 5.4, 5.5, 5.6, 5.8, 5.10, 5.11, 5.12, 5.13, 5.14, 5.15, 5.16, 5.17, 5.18 and 5.19).

There was a total of eighteen (18) original or modified interim deadlines and five (5) final deadlines that came due during the applicable Reporting Period associated with this Status Report. Miami-Dade timely met eight (8) of these eighteen (18) interim deadlines and two (2) of the five (5) final deadlines (Projects 2.4 and 5.18). The following compliance-related notifications were submitted during this Reporting Period:

- Notification for failure to meet deadline Appendix D-2 Project 2.2 (dated 9/25/2019);
- Notification for failure to meet deadline Appendix D-2 Project 5.5 (dated 10/1/2019);
- Force Majeure notification for failure of online Public Document Repository (dated 10/4/2019);
- Notification for failure to meet deadline Appendix D-2 Project 5.1 (dated 10/21/2019);

- Completion notification for Appendix D-2 Project 5.2 (dated 12/5/2019);
- Completion notification for Appendix D-2 Project 5.1 (dated 12/30/2019); and,
- Completion notification for Appendix D-2 Project 5.5 (dated 12/30/2019).

Project 1.1 was completed on November 6, 2019, ahead of its February 23, 2020 deadline. Project 2.2 was completed on January 17, 2020, after its September 26, 2019 deadline, due to contractor non-performance/termination. Project 2.4 was timely completed on August 13, 2019, ahead of its August 23, 2019 deadline. Project 2.21 was completed on December 19, 2019, ahead of its February 26, 2021 deadline. Project 5.1 was completed on November 8, 2019, after the final construction deadline of October 22, 2019, due to six (6) unforeseen delays during construction (*i.e.* pump supports requiring modification; missing electrical connection blocks at motors; motors and pumps refurbishment due to damaged seals and recertification for warranties; missing temperature and vibration sensors at pump casings and bearings; installation of speed potentiometers for manual operation at the local control panel; and, significant issues with a water damaged generator engine). Project 5.2 was completed on November 8, 2019 and is the subject of a Force Majeure request to extend the deadline from January 27, 2019 to December 31, 2019. The Force Majeure Request is still pending. Project 5.5 was completed on November 13, 2019, after the final construction deadline of September 2, 2019, due to delays during the construction and commissioning phases. Project 5.18 was completed on November 18, 2019, ahead of its December 13, 2019 deadline.

EPA and FDEP will report on the resolution of potential stipulated penalties due for the late Projects in the next Status Report.

Of the ten (10) interim event deadlines that were missed during this Reporting Period, all of the corresponding projects still are projected to be completed by Miami-Dade on or before the final compliance deadline set forth in Appendix D-2 or the revised deadlines as requested in Miami-Dade's December 22, 2017 request to modify. As discussed in previous Status Reports, the majority of these missed interim deadlines are due to delays in hiring design engineering consultants subsequent to the project manager hiring delay mentioned in previous Status Reports or due to Miami-Dade modifying projects to design-build contracts (whereby Miami-Dade altered the workflow of the projects so that the procurement phase is moved ahead of the engineering design and permitting phases, so that the deadlines for those two phases are pushed back, but the deadline for completion of the Project remains the same). Two (2) of the three (3) final deadlines (Projects 2.2, 5.1, 5.5) that were missed were also subject to Force Majeure notifications (Projects 2.2 and 5.1) that were not approved prior to the final deadline passing. EPA and FDEP will report the status of stipulated penalties related to these missed final compliance dates in the next Status Report.

As stated in the previous Status Reports, the purpose of including the interim deadlines in Appendix D is to help EPA, FDEP and Miami-Dade ensure that Miami-Dade is making adequate progress and staying on track towards meeting the final compliance deadlines for construction completion of the Appendix D capital projects. Only the eighty-one (81) final construction deadlines that are listed in bold in Appendix D are subject to stipulated penalties under the Consent Decree. Miami-Dade estimated the dates and durations presented in Appendix D for each interim project phase based on the best available information at the time Appendix D was finalized. Thus, while important, the voluminous number of interim deadlines were not made

subject to stipulated penalties, as the Parties recognized that circumstances or events would arise in the future that may require these interim schedules to shift.

iv. Status of Supplemental Environmental Project (“SEP”).

According to Miami-Dade’s Eleventh Semi-Annual Report submitted pursuant to the Consent Decree on July 30, 2019, Miami-Dade completed installation, testing and connections of approximately 8,022 linear feet of 12”, 10” and 8” sewer mains, including all necessary laterals and manholes during the previous Reporting Period. Construction of the SEP was completed on December 26, 2018, ahead of the November 18, 2019 deadline. Pursuant to Paragraph 26 of the Consent Decree, the SEP Completion Report was submitted on December 18, 2019 ahead of the December 26, 2019 deadline.

v. Status of Noncompliance Issues Not Resolved as of the Last Status Report.

EPA has yet to issue a demand letter for 2019 SSOs that reached waters of the United States. On December 16, 2019, FDEP demanded stipulated penalties for SSOs that are subject to FDEP-only stipulated penalties through December 31, 2018. Subsequently, on February 11, 2020, FDEP demanded stipulated penalties for SSOs that are subject to FDEP-only stipulated penalties through December 31, 2019.

vi. Any Anticipated Future Noncompliance Issues.

It is likely that Miami-Dade may miss some future final compliance dates on the Appendix D Projects, especially given the fact that EPA and FDEP are no longer open to extending said deadlines.

C. **Any Other Issues Which the United States Believes are Necessary to Bring to the Court's Attention.**

Miami-Dade instituted a policy of not transferring money from the County Water and Sewer Department's Sewer fund to the County's General Fund for non-sewer related purposes. However, if Miami-Dade should change or violate that policy in the future, the United States and/or Miami-Dade will inform the Court and will provide details on the amount of money being transferred for non-sewer related purposes. Miami-Dade has confirmed that it has not transferred any monies between the Water and Sewer Department's Sewer Fund and the General Fund during this Reporting Period.

Respectfully submitted this 24th day of March, 2020.

FOR PLAINTIFF THE UNITED STATES OF AMERICA

/s/ Rachael Amy Kamons
RACHAEL AMY KAMONS
Trial Attorney
U.S. Department of Justice
Environmental and Natural Resources Division
Environmental Enforcement Section
P.O. Box 7611
Ben Franklin Station
Washington, D.C. 20044-7611
(202) 514-5260
rachael.kamons@usdoj.gov

OF COUNSEL:

PAUL SCHWARTZ
Associate Regional Counsel
U.S. Environmental Protection Agency
Atlanta Federal Center
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
(404) 562-9576
schwartz.paul@epa.gov

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that on March 24, 2020, the foregoing document entitled UNITED STATES' FOURTH STATUS REPORT was served on all counsel of record on the Service List below either via transmission of Notice of Electronic Filing generated by CM/ECF or in some other authorized manner for those counsel or parties who are not authorized to receive electronically Notices of Electronic Filing.

SERVICE LIST

Barbara Jean Thorne
Senior Assistant Attorney General
Complex Litigation
Attorney General Office
The Capitol PL-01
Tallahassee, FL 32399-1050

Paul Joseph Schwiep
Coffey Burlington
2699 South Bayshore Drive
Penthouse A
Miami, FL 33133

Barney Jack Chisolm, Jr.
Kirk S. White
Department of Environmental Protection
3900 Commonwealth Boulevard
Mail Station 35
Tallahassee, FL 32399-3000

Henry Neal Gillman
Miami-Dade County Attorney's Office
111 NW 1st Street
Suite 2810
Miami, FL 33128

James M. Porter
1 SE 3rd Avenue
Miami, FL 33131

Osnat R. Rind, Holly Van Horsten
PHILLIPS, RICHARD & RIND, P.A.
9360 SW 72 Street, Suite 283
Miami, FL 33176

/s/ Rachael Amy Kamons
RACHAEL AMY KAMONS
Trial Attorney

Exhibit 1

Table of SSOs (not including Building Backups) during the Reporting Period

Exhibit 1 - Sanitary Sewer Overflows

Date	Time	Location	Source	Est. Duration	Est. Volume	Destination	Waters	Cause	Immediate Fix	Long Term Fix	
				hr:min	gallons		Of US			Req'd	Solution
7/2/2019	5:00AM	14201 NW 42 AVE OPA-LOCKA 33054	FM	2 hours 30 minutes	67,599	Land	No	54" DI force main broken by County contractor	Repaired broken 54" DI force main	Yes	Reconciled GIS record so this asset can be properly located
7/14/2019	7:00PM	NW 14 AVE & NW 2 ST MIAMI 33125	GM	1 hour 18 minutes	5	Storm Drain	No	Gravity main blockage due to grease	Cleared grease blockage and notified local regulatory agency (RER-DERM)	No	No further action required
7/17/2019	10:54AM	NW 25 ST & NW 114 AVE DORAL 33172	FM	1 hour 6 minutes	15,592	Storm Drain	No	8" DI force main broken by non-County contractor while directional drilling	Repaired 8" DI force main	No	No further action required
7/18/2019	8:25AM	13964 NW 60 AVE MIAMI LAKES 33014	ARV	3 hours 35 minutes	6,478	Storm Drain	No	ARV leaking due to corrosion at bottom of non standard material 2" nipple	Repaired ARV with new ball valve, 2" brass nipple (standard material)	No	No further action required
7/21/2019	9:45AM	1015 N AMERICAN WAY MIAMI 33132	FM	4 hours 39 minutes	8,617	Intracoastal Waterway (ICW)	Yes	8" CI force main leaking due to corrosion. This asset belongs to the Port of Miami	Port of Miami placed a recently pressure tested subaqueous force main in to service and abandoned corroded force main	No	Port of Miami were responsible for the spill and repairs. No further action required

Date	Time	Location	Source	Est. Duration	Est. Volume	Destination	Waters	Cause	Immediate Fix	Long Term Fix	
				hr:min	gallons		Of US			Req'd	Solution
7/27/2019	3:00PM	170 OCEAN LANE DR KEY BISCAYNE 33149	GM	2 hours 30 minutes	450	Storm Drain	No	Gravity main and manhole broken by non-County contractor while performing directional drilling	Repaired broken gravity main and section of manhole that was damaged	No	No further action required
8/4/2019	1:00PM	SW 8 ST & SW 143 AVE UNINCORPORATED MIAMI-DADE 33184	ARV	2 hours	50	Land	No	ARV failed due to non-standard galvanized nipple	Shutdown the corporation and temporarily closed ARV	Yes	Permanent ARV replacement required excavation
8/6/2019	6:21AM	17909 BISCAYNE BLVD AVENTURA 33160	PS	24 minutes	8,000	Storm Drain	No	Mechanical plug failure	Repaired plug and PS resumed operations	Yes	Recommend installing a Smart Cover on the lowest manhole in basin
8/7/2019	8:10AM	1800 S GLADES DR NORTH MIAMI BEACH 33162	GM	2 hours 15 minutes	60	Storm Drain	No	Gravity main blockage due to grease	Cleared gravity main blockage and notified local regulatory agency (RER-DERM)	No	No further action required
8/11/2019	5:00PM	2500 NE 163 ST NORTH MIAMI 33160	FM	5 days 10 hours	1,731,586	OLETA RIVER	Yes	Leaking 48" force main due to internal and external corrosion	Force main isolated for repairs by installing a temporary 24" HDPE bypass line with a line stoppers to perform repair	Yes	Recommended for replacement
8/13/2019	11:45PM	4800 SW 127 PL UNINCORPORATED MIAMI-DADE 33175	FM	2 hours 15 minutes	36,504	Storm Drain	No	Broken 8" AC force main due to non-standard pipe material	Repaired broken 8" AC force main	Yes	Recommended for replacement

Date	Time	Location	Source	Est. Duration	Est. Volume	Destination	Waters	Cause	Immediate Fix	Long Term Fix	
				hr:min	gallons		Of US			Req'd	Solution
8/17/2019	2:00PM	1600 NE 167 ST NORTH MIAMI BEACH 33162	PS	1 hour	200	Land	No	Pump controller failed	Reset control and PS operations resumed	Yes	Upgrade PS controller
8/18/2019	9:00PM	6707 NW 169 ST UNINCORPORATED MIAMI-DADE 33015	LAT	2 hours	5	Land	No	6" public lateral broken by non-County contractor	Repaired broken lateral	No	No further action required
8/22/2019	1:00PM	18100 N BAY RD SUNNY ISLES BEACH 33160	GM	3 hours	50	Storm Drain	No	Gravity main blockage due to grease	Cleared gravity main blockage and notified local regulatory agency (RER-DERM)	No	No further action required
8/23/2019	4:38PM	13600 SW 128 ST UNINCORPORATED MIAMI-DADE 33186	ARV	2 hours 22 minutes	19,135	Storm Drain	No	ARV leaking due to non-County contractor striking and damaging the ARV	Repaired ARV	No	No further action required
8/28/2019	10:45AM	16385 Biscayne BLVD NORTH MIAMI BEACH 33160	GM	45 minutes	25	Storm Drain	No	Gravity main blockage due to grease and paper	Cleared gravity main blockage and notified local regulatory agency (RER-DERM)	No	No further action required
8/29/2019	11:09AM	160 HARBOR DR KEY BISCAYNE 33149	AARV	1 hour 21 minutes	1,182	Storm Drain	No	AARV failed due to malfunction of several components	Replaced broken AARV	Yes	Phase out AARV from manufacturer with repetitive failure

Date	Time	Location	Source	Est. Duration	Est. Volume	Destination	Waters	Cause	Immediate Fix	Long Term Fix	
				hr:min	gallons		Of US			Req'd	Solution
9/4/2019	3:30PM	18538 NW 67 AVE UNINCORPORATED MIAMI-DADE 33015	AARV	2 hours 15 minutes	35	Land	No	AARV leaking due to mechanical failure of rolling seal assembly	Replaced AARV	Yes	Phase out AARV from manufacturer with repetitive failure
9/6/2019	2:00PM	398 GOLDEN BEACH DR GOLDEN BEACH 33160	AARV	1 hour 35 minutes	25	Land	No	Debris lodged in AARV caused leak	Replaced leaking AARV with new AARV	Yes	Monitor performance of AARV from new manufacturer
9/11/2019	9:47PM	SW 112TH ST & SW 127TH AVE UNINCORPORATED MIAMI-DADE 33186	FM	2 hours 33 minutes	727,659	Storm Drain	No	16" AC force main broken due to substandard material of pipe	Repaired broken 16" AC force main	Yes	Recommended for replacement
9/12/2019	11:00PM	WILLIAM LEHMAN CSWY & Biscayne BLVD AVENTURA 33180	FM	2 hours 15 minutes	304,423	Man made lake	Yes	24" DI force main broken due to internal corrosion	Repaired 17-18' segment of 24" DI force main.	Yes	Recommended for replacement
9/14/2019	1:00PM	NE 192 ST & W COUNTRY CLUB DR AVENTURA 33180	FM	4 hours	33,826	Man Made Lake	Yes	24" DI force main broken due to corrosion of a 2" air release tap	Repaired broken 24" force main	Yes	Recommended for replacement

Date	Time	Location	Source	Est. Duration	Est. Volume	Destination	Waters	Cause	Immediate Fix	Long Term Fix	
				hr:min	gallons		Of US			Req'd	Solution
9/17/2019	9:30AM	18044 NW 59 AVE UNINCORPORATED MIAMI-DADE 33015	GM	3 hours	50	Storm Drain	No	Gravity main blockage due to grease and debris	Cleared gravity main blockage due to grease and debris. Notified local regulatory agency (RER-DERM)	No	No further action required
9/23/2019	3:45PM	950 NW 214 ST MIAMI GARDENS 33169	GM	2 hours 15 minutes	30	Storm Drain	No	Gravity main blockage due to grease	Cleared gravity main grease blockage and notified local regulatory agency (RER-DERM)	No	No further action required
9/24/2019	8:32AM	123 SW North River DR MIAMI 33130	GM	2 hours 43 minutes	400	Land	No	Gravity main blockage due to debris associated with unknown contractor damaging manhole ring and cover	Repaired damaged manhole and cleared debris blockage	No	No further action required
9/26/2019	5:30PM	18730 NW 47 AVE UNINCORPORATED MIAMI-DADE 33055	FM	2 hours	20,045	Land	No	8" AC force main broken by Non-County Contractor	Repaired broken section of 8" AC force main	Yes	Recommended for replacement
10/1/2019	12:25AM	20810 SW 112 AVE	PS	45 minutes	200	Land	No	Pump-out leaking due to corrosion	Replaced pump-out riser and valve	No	No further action required
10/7/2019	12:18PM	15665 BISCAYNE BLVD NORTH MIAMI 33160	FM	2 hours 12 minutes	650	Storm Drain	No	2" PVC force main broken by non-County contractor	Repaired broken segment of 2" PVC force main	No	No further action required

Date	Time	Location	Source	Est. Duration	Est. Volume	Destination	Waters	Cause	Immediate Fix	Long Term Fix	
				hr:min	gallons		Of US			Req'd	Solution
10/8/2019	11:00AM	900 NE 199 ST	GM	3 hours 30 minutes	50	LAKE PARK	Yes	Gravity main blockage due to grease	Cleared gravity main blockage due to grease	No	No further action required
10/13/2019	7:50PM	7778 NW 12 AVE	FM	25 minutes	3,380	Storm Drain	No	12" DI force main leaking due to interior corrosion	Repaired corroded segment of 12" DI force main	Yes	12" DI force main recommended for replacement. RER-DERM to investigate pre-treatment facilities in the area
10/14/2019	9:00AM	18151 NE 31 CT AVENTURA 33160	PS	3 hours	200	Land	No	Mechanical failure at PS 0472 (broken belt)	Replaced broken belt and pump station operation restored	Yes	Continue accelerated maintenance schedule
10/16/2019	1:00PM	7870 NW 178 ST	PS	40 minutes	45,000	Storm Drain	No	County contractor's plug failed during dewatering operations	County contractor stopped discharging mixed sewer and ground water and installed new plug	No	No further action required
10/16/2019	2:31PM	SW 137 AVE & SW 270 ST	FM	3 hours 39 minutes	74,450	Storm Drain	No	10" AC force main broken by non-County contractor while installing an electrical conduit	Repaired broken segment of 10" AC force main	Yes	Recommended for Replacement
10/30/2019	8:30AM	4501 NW 207 DR MIAMI GARDENS 33055	GM	1 hour 30 minutes	40	Storm Drain	No	Gravity main blockage due to grease	Cleared gravity main blockage and notified local regulatory agency (RER-DERM)	No	No further action required

Date	Time	Location	Source	Est. Duration	Est. Volume	Destination	Waters	Cause	Immediate Fix	Long Term Fix	
				hr:min	gallons		Of US			Req'd	Solution
11/6/2019	8:22AM	18820 NW 47 AVE	FM	1 hour 38 minutes	75	Land	No	Broken 8" AC force main due to point load	Repaired broken 8" AC force main	Yes	Recommended for replacement
11/6/2019	2:37PM	SW 97 AVE & SW 216 ST CUTLER BAY 33190	FM	3 hours 18 minutes	187,092	Storm Drain	No	72" PCCP force main broken by non-County Contractor	Repaired broken 72" PCCP force main	No	No further action required
11/14/2019	1:30PM	2841 NE 163 ST NORTH MIAMI 33160	GM	8 hours 15 minutes	40	Storm Drain	No	Gravity main broken by non-County contractor	Repaired broken gravity main	Yes	Reconcile location of asset within GIS
11/16/2019	8:00AM	2801 NE 183 ST AVENTURA 33160	GM	2 hours	30	Storm Drain	No	Gravity main blockage due to grease	Cleared gravity main blockage and notified local regulatory agency (RER-DERM)	No	No further action required
11/17/2019	10:47AM	5950 NW 193 ST	GM	1 hour 13 minutes	40	Storm Drain	No	Gravity main blockage due to Contractor's plug	Removed the plug from gravity main	No	No further action required.
11/18/2019	10:00AM	4613 NW 191 ST MIAMI GARDENS 33055	ARV	45 minutes	25	Land	No	Leaking ARV broken by non-County Contractor	Retired ARV and repaired force main with a 4" stainless steel clamp	No	No further action required
11/19/2019	9:30AM	SW 101 ST & SW 164 AVE	FM	2 hours 30 minutes	8,859	Storm Drain	No	Broken 8" DI force main due to improper bedding.	Repaired broken segment of 8" DI force main	No	No further action required
11/19/2019	10:30PM	3987 NE 167 ST NORTH MIAMI BEACH 33160	GM	1 hour	10	Land	No	Gravity main blockage due to grease	Cleared gravity main blockage and notified local regulatory agency (RER-DERM)	No	No further action required.
11/25/2019	8:30AM	21545 SW 87 AVE CUTLER BAY 33189	FM	2 hours 20 minutes	26,147	UNKNOWN	Yes	8" DI force main broken due to point loading	Repaired broken 8" DI force main	No	No further action required
11/27/2019	1:59PM	NW 41 ST & NW 72 AVE	AARV	1 hour 41 minutes	5,906	Storm Drain	No	Broken PVC nipple on AARV	Repaired broken AARV	No	No further action required

Date	Time	Location	Source	Est. Duration	Est. Volume	Destination	Waters	Cause	Immediate Fix	Long Term Fix	
				hr:min	gallons		Of US			Req'd	Solution
11/27/2019	5:40PM	930 N VENETIAN CSWY	FM	33 minutes	3,513	Storm Drain	No	Broken 10" DI force main due to a spilt on the pipe.	Repaired broken 10" DI force main	No	No further action required
12/1/2019	12:00PM	SW 88 ST & SW 123 CT	ARV	2 hours	1,773	Storm Drain	No	ARV leaking due to split on nipple	Replaced nipple and valve	No	No further action required
12/1/2019	1:00PM	13401 W CALUSA CLUB DR	FM	3 hours 30 minutes	40,560	Land	No	8" PVC force main broken due to sub standard material	Repaired 8" PVC force main with standard material	Yes	Confirmed that the sub-standard material was localized
12/2/2019	9:15PM	NW 31 ST & NW 32 AVE	FM	2 hours 45 minutes	17,935	Storm Drain	No	12" DI force main broken due to point load	Repaired 12" DI force main	No	No further action required
12/4/2019	9:10PM	20855 NW 9TH CT MIAMI GARDENS 33169	GM	1 hour 50 minutes	40	Storm Drain	No	Gravity Main blockage due to grease	Cleared gravity main blockage due to grease and notified local regulatory agency (RER-DERM)	No	No further action required
12/12/2019	10:14PM	CRANDON BLVD & E HEATHER DR KEY BISCAYNE 33149	AARV	2 hours 1 minute	5	Land	No	AARV leaking at the threads on the nipple	Replaced nipple and AARV	No	No further action required
12/15/2019	8:30PM	2790 NE 164 ST NORTH MIAMI BEACH 33160	PS	1 hour 15 minutes	50	Storm Drain	No	FP&L interruption in service	Power restored and PS back in service	No	No further action required
12/17/2019	12:00PM	2601 NE 163 ST NORTH MIAMI 33160	FM	2 hours 15 minutes	21,146	Oleta River	Yes	6" CI force main leaking due to exterior and interior corrosion.	Repaired broken 6" CI force main	Yes	This force main was recommended for replacement and the design is ongoing

Date	Time	Location	Source	Est. Duration	Est. Volume	Destination	Waters	Cause	Immediate Fix	Long Term Fix	
				hr:min	gallons		Of US			Req'd	Solution
12/20/2019	8:00AM	6250 SW 109 CT	FM	2 hours 30 minutes	30,688	Land	No	8" DI force main broken due to interior corrosion	Repaired broken segment of 8" DI force main	No	No further action required
12/24/2019	6:30AM	19850 NW 59 PL	PS	20 minutes	200	Land	No	Discharge hose on by-pass pump failed	Replaced broken hose and PS operations restored	Yes	PS upgrade plan is under development

Exhibit 2

Table of Building Backups during the Reporting Period

Exhibit 2 - Building Backups

Date	Time	Location	Source	Est. Durati on hr:min	Est. Volume gallons	Destination	Waters Of US	Cause	Immediate Fix	Long Term Fix	
										Req'd	Solution
7/5/2019	N/A	11306 SW 71 LANE	LAT	N/A	5	N/A	No	Gravity main and lateral blockage	Cleared blockage and relayed public lateral	No	No further action required
7/18/2019	N/A	830 BLUEBIRD AVE, MIAMI SPRINGS	LAT	N/A	5	N/A	No	Resident experienced BBU in bathroom caused by WASH crew jetting line	Vendor rendered assistance cleaning / sanitizing	No	No further action required