



**Memorandum**

**Memorandum No: 21-095**

**Date:** September 28, 2021  
**To:** Honorable Mayor and Commissioners  
**From:** Chris Lagerbloom, ICMA-CM, City Manager  
**Re:** Water and Wastewater Consent Orders Update

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In response to Commissioner Sorensen's request for an update on the Water and Wastewater Consent Orders, staff has compiled the attached status updates. The data captured for the Water Consent Order as of September 14, 2021, and the Wastewater Consent Order as of September 1, 2021.

Should you require additional information, please contact Alan Dodd, Public Works Director at [ADodd@fortlauderdale.gov](mailto:ADodd@fortlauderdale.gov).

**Attachments:**

Exhibit 1: Water Consent Order Status Update  
Exhibit 2: Wastewater Consent Order Update

c: Tarlesha W. Smith, Esq., Assistant City Manager  
Greg Chavarria, Assistant City Manager  
Alain E. Boileau, City Attorney  
Jeffrey A. Modarelli, City Clerk  
John C. Herbst, City Auditor  
Department Directors  
CMO Managers

# City of Fort Lauderdale Water Consent Order (CO) Status

OGC File No. #19-1637

September 14, 2021



Item No.	CO Paragraph	Project / Item	Completion Date			Status
			Required	Scheduled	Actual	
1	5a	Submit a Preventative Maintenance Plan (PMP)	9/22/2020	-	9/21/2020	PMP completed, and accepted by FDEP on 10/16/2020.
2	5b	Implement the Preventative Maintenance Plan	1/1/2021	-	8/10/2020	Implementation began before January 1, 2021 as required. Implementation is ongoing as planned.
3	5c	Exercise 100% of Source Water Line Valves in Year 1	8/10/2021	-	7/30/2021	100% of valves exercised.
4	5c	Submit an Annual Report showing the number of source water line valves exercised in Year 1	9/10/2021	-	9/9/2021	Report completed and submitted to FDEP on 9/9/2021 ahead of deadline.
5	5c	Exercise 20% of the Water Distribution System Valves per PMP in Year 2	8/10/2022	8/10/2022	-	Operations began exercising valves for the next annual period on 8/10/2021.
6	5c	Submit an Annual Report showing the number of water line valves exercised in Year 2	9/10/2022	9/10/2022	-	On Schedule
7	5c	Exercise 20% of the Water Distribution System Valves per PMP in Year 3	8/10/2023	8/10/2023	-	On Schedule
8	5c	Exercise 20% of the Water Distribution System Valves per PMP in Year 4	8/10/2024	8/10/2024	-	On Schedule
9	5c	Exercise last 20% of the Water Distribution System Valves per PMP in Year 5	8/10/2025	8/10/2025	-	On Schedule
10	5d	Submit a plan to develop a complete map of the existing water supply network	9/22/2020	-	9/21/2020	Mapping plan completed, and accepted by FDEP on 10/16/2020.
11	5e	Complete all mapping and certify to the Department in writing	7/24/2023	7/24/2023	-	Under evaluation for funding. Solicitation submitted by staff to management for approval and further direction as needed. Procurement of services under way.
12	9	Implement an In-Kind Penalty Project: Hector Park Stormwater Improvements Project (water quality)	7/24/2021	-	4/17/2021	Substantial completion was reached on April 17, 2021.

# CONSENT ORDER PROGRESS MEETING

September 1, 2021 – 3:00 pm

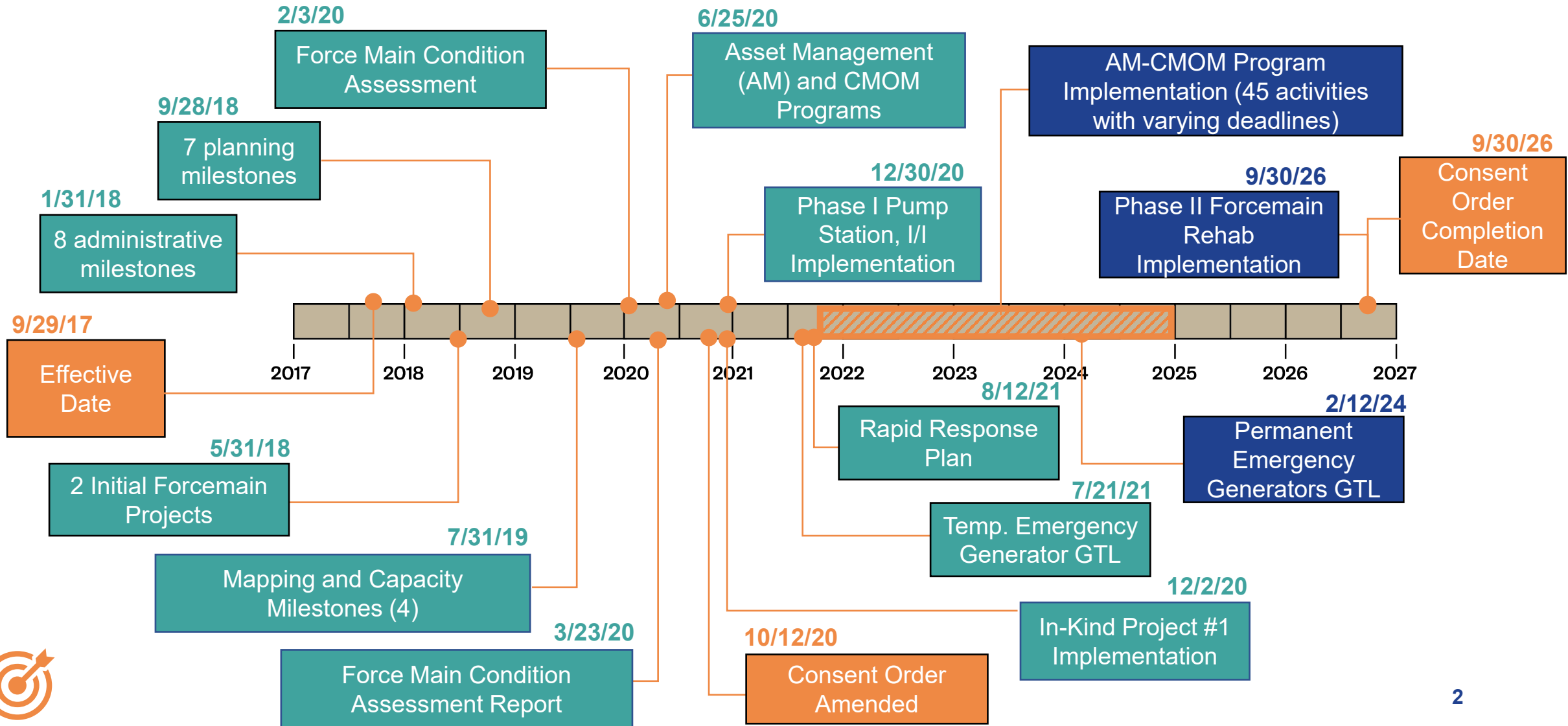


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Presented by: **Brandy Leighton, PE**  
City of Fort Lauderdale  
Senior Project Manager



# Key Milestones and Targets



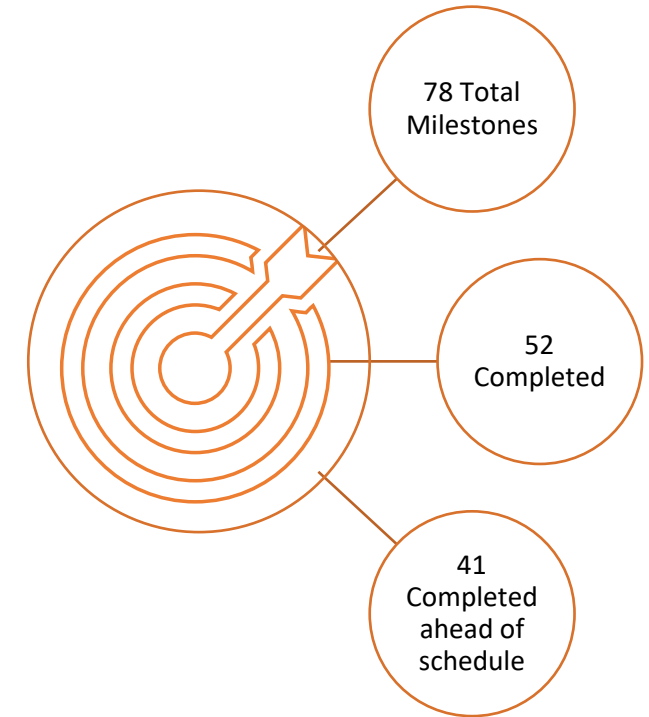


# Milestones Achieved Since Last Update



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Milestones	Due Date	Date Completed
<u>Corrective Actions Completed</u>		
Temporary Emergency Generator at GTL WWTP	7/12/21	6/29/21
2021 Semi-Annual Report No. 1	7/31/21	7/30/21
Rapid Response Plan	8/12/21	8/11/21
<u>Notifications of Substantial Completions Letters</u>		
Redundant Sewer Force Main South	9/30/26	8/9/21
Temporary Generator at GTL WWTP	7/12/21	7/9/21

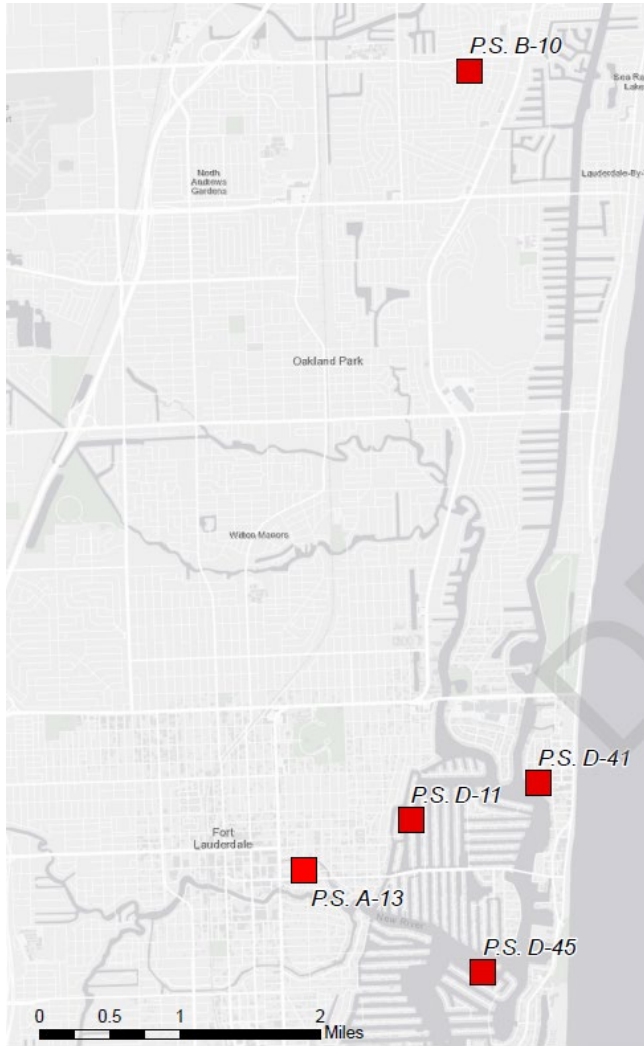




# Phase 1 Pump Stations Project Highlights



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## Pump Stations (CO Para 6c)

Project No.	Project Name	Description	Completion Date			Percent Complete
			Required (CO)	Scheduled	Actual	
P11879	Pump Station B-10 Rehabilitation	Rehabilitate pump station B-10	9/30/2020	-	10/23/2018	100%
P11881	Pump Station D-45 Replacement	Replace pump station D-45	9/30/2020	-	8/3/2018	100%
P12124	Central Beach Alliance Pump Station Replacement (D-41)	Replace pump station # D-41	9/30/2020	-	10/16/2018	100%
P12133	A-13 Sewer Redirection - East of Federal Highway	Redirect sewer East of Federal Highway on Broward Blvd. to new Pump Station A-13	9/30/2020	-	3/27/2020	100%
P12202	Lift Station D-11 Flow Analysis & Redesign	Flow analysis and design for pump station rehabilitation	9/30/2020	-	9/10/2019	100%

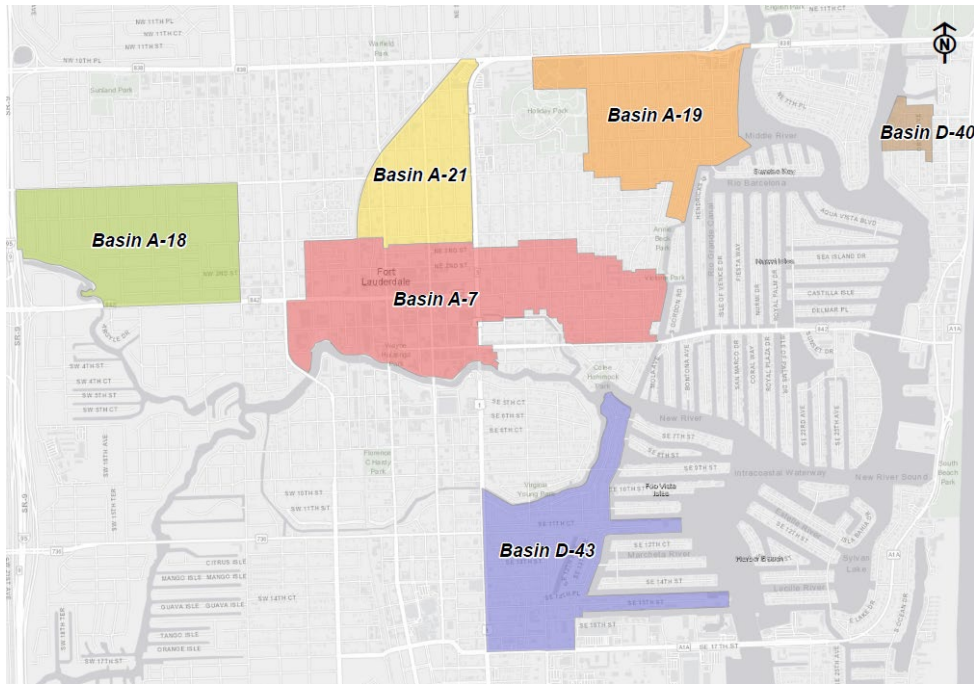




# Phase 1 I&I Project Highlights



## SSES/ Infiltration and Inflow (CO Para 6d)



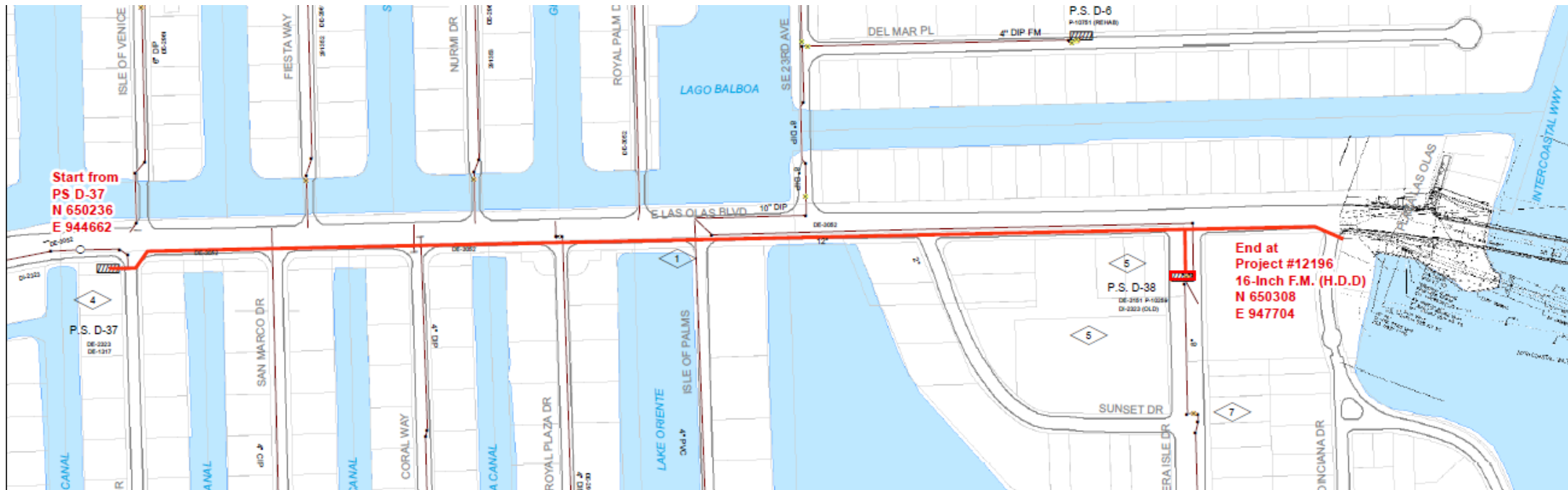
Project No.	Project Name	Description	Completion Date			Percent Complete
			Required (CO)	Scheduled	Actual	
P11563	Victoria Park Sewer Basin A-19 Rehab	Rehabilitate main line sewers, manholes, and service laterals to reduce infiltration and inflow.	12/30/20	7/2/20	9/28/20	100%
P11566	Rio Vista Sewer Basin Rehab PS D-43		12/30/20	11/24/20	12/7/20	100%
P11991	Downtown Sewer Basin PS A-7 Rehabilitation		12/30/20	11/30/20	12/7/20	100%
P12001	Sewer Basin D-40 Rehab		9/30/20	-	12/1/17	100%
P12049	Flagler Heights Sewer Basin A-21 Laterals		12/30/20	11/30/20	12/7/20	100%
P12055	Basin A-18 Sanitary Sewer Collection System Rehabilitation		12/29/20	11/30/20	12/7/20	100%

# In-Kind Project #1



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Project No.	Project Name	Description	Completion Date			Percent Complete
			Required (CO)	Scheduled	Actual	
P12390	Phase II Las Olas Blvd. Force Main Replacement and Modifications to Pump Station D-38	Replace approx. 3,100 feet of force main on Las Olas Boulevard from Lido Drive to Merle Fogg Park and upgrade Pump Station D-38's wet well, electrical panels, and pumps.	12/2020	9/22/20	11/30/20	100%





# Phase II Force Main Projects



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Project ID. In Figure	Project No.	Project Name	Completion Date			Percent Complete <sup>2</sup> (As of 06/30/2021)
			Required (CO)	Scheduled	Actual <sup>1</sup>	
1	P12383	NE 25th Avenue 24-inch Force Main Replacement	9/30/2026	3/31/2024	-	45%
2	P12384	NE 38th St 42-inch FM and NE 19th Ave 24-inch FM Replacements	9/30/2026	<b>4/29/2026</b>	-	40%
3	P12319	Emergency Repairs 30" Force Main A-Repump Station to GTL	5/31/2018	-	5/30/2018	100%
4	P12567	Redundant Sewer Force Main South Rehabilitation or Replacement of 48	9/30/2026	9/31/2021	-	97%
5	P-TBD	to 54-inch Force Main on SE 9th and 10th Avenue to GTL WWTP	9/30/2026	<b>9/30/2026</b>	-	0%
6	P12387	Effluent Pipe 54" Force Main Replacement	9/30/2026	9/9/2025*	-	35%
7	P12388	NW 13th Street 24-inch Force Main Replacement	9/30/2026	10/15/2021	-	95%
8	P12389	18-inch FM Replacement Across the N. River from NE 9th St to N. Birch Road	9/30/2026	9/25/2021	-	96%
<b>Projects added to Consent Order Phase II Force Mains as recommended by the Force Main Condition Assessment Report</b>						
9	P12352	South Middle River Force Main River Crossing	9/30/2026	-	8/5/2021	100%
10	P12413	Force Main (From Pump Station D-35 to D-36) Upsize	9/30/2026	-	3/05/2021	100%
11	P12566	Redundant Sewer Force Main North	9/30/2026	Pending Change Order	-	93%
12	PF-1	NE 36th Street Force Main Improvements	9/30/2026	-	3/20/2020	100%
13	PF-2	NE 5th Street FM Improvements Victoria park 16" Force Main Repair	9/30/2026	-	2/25/2020	100%

\*The scheduled dates marked with an asterisk were roughly approximated due to a future transfer removing funds for Design-Build and Construction phases.

# Non-Construction Activities



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## AM and CMOM Programs

- Final (revised) version submitted to FDEP
- Implementation phase has begun



## Force Main Condition Assessment Report (FCMA)

- 100% Completed as of August 2020



## Sewer Mapping

- 100% of sewer system mapped and certified



## Capacity Analysis

- Capacity model 100% completed
- Capacity report 100% completed

# Major Milestones Added Under Consent Order Amendment



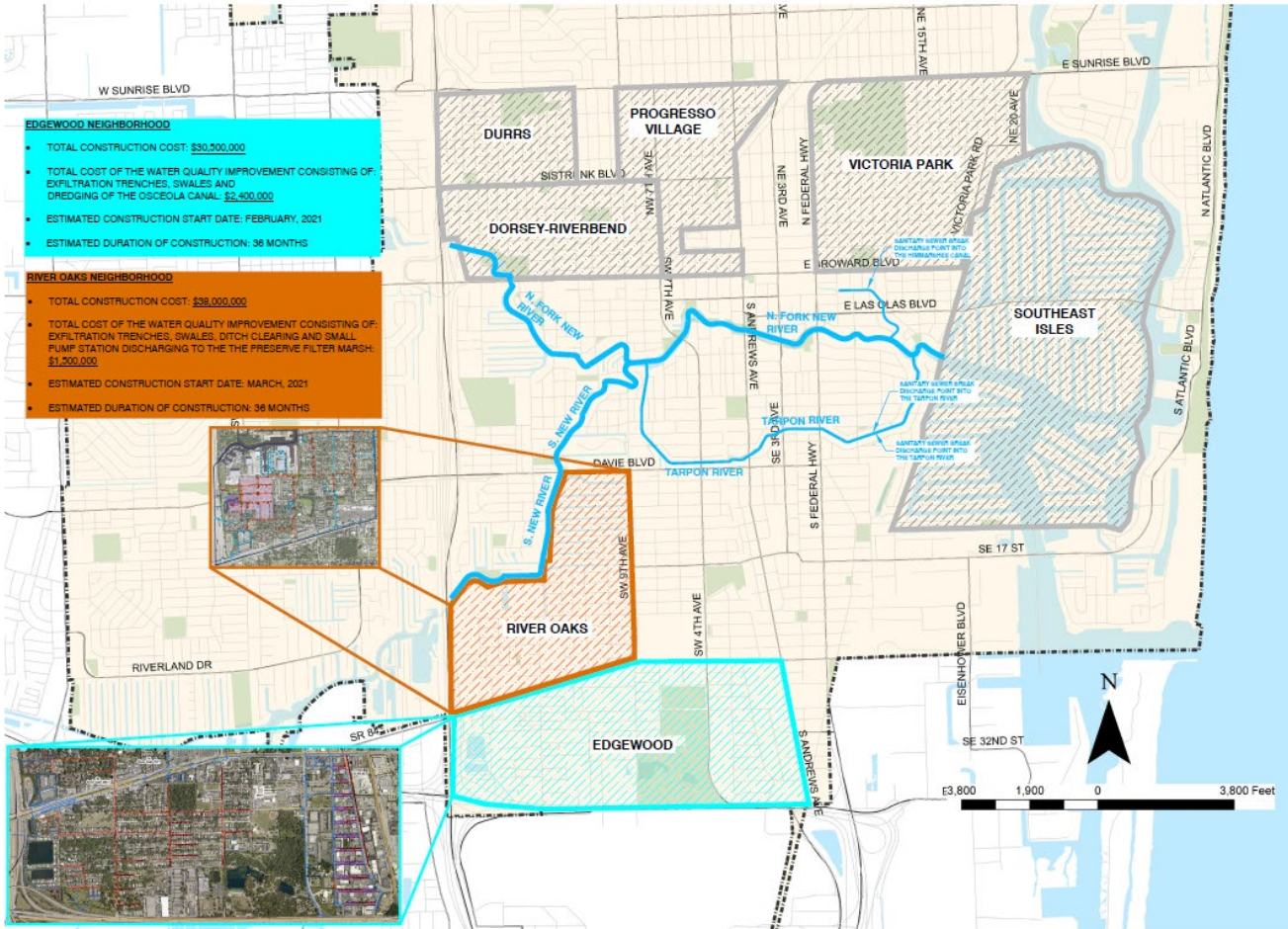
p.6(q) - Temporary emergency generator at GTL	<ul style="list-style-type: none"><li>• 9 months from effective date</li><li>• 7/12/2021 deadline</li><li>• 100% Complete</li></ul>
p.6(r) - Permanent emergency generators at GTL	<ul style="list-style-type: none"><li>• 40 months from effective date</li><li>• 2/12/2024 deadline</li><li>• 25% Complete</li></ul>
p.6(s) - Rapid Response Plan	<ul style="list-style-type: none"><li>• 10 months from effective date</li><li>• 8/12/2021 deadline</li><li>• 100% Complete</li></ul>
p.9 - Waterways Environmental Analysis	<ul style="list-style-type: none"><li>• George English Lake, Tarpon River &amp; Himmarshee Canal</li><li>• 04/11/2021 deadline</li><li>• George English and Tarpon River Completed</li><li>• Awaiting Verification Letter of Completion for Himmarshee</li></ul>
p. 11 - Updated estimate of total costs for 6(q,r,s)	<ul style="list-style-type: none"><li>• 6 months from effective date</li><li>• 4/11/2021 deadline</li><li>• 100% Complete</li></ul>
p.18 / Ex E - In-Kind Project Two	<ul style="list-style-type: none"><li>• \$3,167,250 minimum value</li><li>• Environmental enhancement or environmental restoration</li><li>• 18% Complete</li></ul>



# In-Kind Project #2



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Accepted Project

- Edgewood and River Oaks Neighborhoods
- Water Quality Improvements
  - Exfiltration trench
  - Swales
  - Osceola Creek Restoration
- Estimated construction cost – \$4.6M
- Approx. 18% Complete
- Completion deadline
  - March 31, 2024



# Water Quality Projects



## Accepted Projects

- Water Quality Assessments
  - Completed
  - Waiting on verification of completion for Himmarshee Canal
- Water Quality Improvement Phase
  - George English Lake
  - Tarpon River
  - Himmarshee Canal