



DRAFT

**MEETING MINUTES
CITY OF FORT LAUDERDALE
CITY OF FORT LAUDERDALE**

INFRASTRUCTURE TASK FORCE ADVISORY COMMITTEE

CITY OF FORT LAUDERDALE MONDAY, NOVEMBER 7, 2022 – 2:00 P.M. TO 5:00 P.M.

January-December 2022

Attendance

Marilyn Mammano, Chair (arr. 2:37)	P	8	0
Peter Partington, Vice Chair	P	5	3
Gerald Angeli (arr. 2:22)	P	7	1
Shane Grabski	P	5	3
James LaBrie	P	8	0
Michael Marshall	A	4	4
Roosevelt Walters	A	5	3
Ralph Zeltman	P	8	0

As of this date, there are 8 appointed members to the Committee, which means 5 would constitute a quorum.

Staff

- Alan Dodd, Director of Public Works
- Chris Bennett, Assistant Director of Public Works
- Omar Castellon, Assistant Director of Public Works – Engineering
- Vickie Beauvais, Senior Administrative Assistant
- Betty Crews, Senior Administrative Assistant
- Pauline Ricketts, Administrative Supervisor
- Jamie Opperee, Recording Secretary, Prototype, Inc.

Communication to the City Commission

None.

1. Call to Order

i. Roll Call

Vice Chair Partington called the meeting to order at 2:22 p.m. Roll was called and it was noted a quorum was present.

ii. Approval of Agenda

Motion made by Mr. LaBrie, seconded by Mr. Zeltman, to approve. In a voice vote, the **motion** passed unanimously.

iii. Approval of Previous Meeting Minutes – October 6, 2022

Motion made by Mr. LaBrie, seconded by Mr. Zeltman, to approve.

Mr. Castellon noted the following corrections to the October 6, 2022 minutes: Patricia Jolly was not present at the meeting, and Betty Crews was present. He also noted that Pauline Ricketts' proper title is Administrative Supervisor.

In a voice vote, the **motion** passed unanimously [as amended].

2. Old Business

i. New Water Plant Discussion

Public Works Director Alan Dodd advised that Staff has prepared a presentation for the Committee which addresses the timeline of the water plant project, as well as other considerations related to the existing Fiveash Water Treatment Plant. The presentation includes information not previously shared with the Committee.

Mr. Dodd explained that there has been public misconception regarding what constitutes a public-private partnership (P3). In the case of the new water treatment plant, a P3 is a contract and agreement between a public party, in this case the City of Fort Lauderdale, and a private party, IDE Ridgewood. The plant will not be privatized, but will be owned by the City, and the City will provide the Staff to operate the plant. The City will also make decisions regarding the amount of water to be produced each day to meet its needs. The new plant must also work in conjunction with the Peele-Dixie Water Treatment Plant.

The City will also control the water rates paid by its residents. The rates are based upon not only the cost of operating the new plant, but the cost of running the entire water and wastewater systems.

In 2017, the City's Utility Strategic Master Plan was created, and called for a close look at the Fiveash facility, which was a very old plant with more than \$200 million worth of identified repairs at the time. In 2019, this plan was followed by the Carollo report, which recommended construction of a replacement facility as well as its design. The Carollo report also recommended that the new plant be built at the Prospect Lake site.

The City received an unsolicited proposal in early 2022 for the new facility, followed by three additional unsolicited proposals. These proposals went through a P3 process defined by the state of Florida, which provides guidelines for the receipt of unsolicited proposals. An interim agreement was reached in May 2022, which gave the private entity access to the Prospect Lake site to conduct additional technical analysis. At present, the City is working to create a comprehensive agreement that fully captures all of the technical and financial requirements, how risk is allocated, and how the City will operate the plant. Work on this document is ongoing, with a goal of completing the

comprehensive agreement by the end of calendar year 2022. The agreement will be presented to the City Commission once is fully complete.

Vice Chair Partington recalled that there had been some discussion at a recent City Commission meeting regarding the P3. Mr. Dodd stated that this discussion addressed how financial details have changed since the Commission made its final selection of a private partner. The Mayor and one Commissioner expressed concerns with the escalation of the project's costs, including the additional costs associated with enabling works.

Mr. LaBrie requested clarification of the term "enabling works." Mr. Dodd explained that the P3 proposal is based on provision of a water treatment plant that will produce up to 50 million gallons of water per day. The proposal does not include the work necessary to connect the new plant to the City's existing system. Enabling works include:

- Providing a power supply to the new facility
- Modifications to the Prospect Wellfield in order to connect to the system
- Pre-treatment facility to filter sand and other materials from water before it enters the plant
- Distribution pipe to connect Prospect Lake to the Fiveash plant, which will serve as a distributor of water
- Water and wastewater connections for employees of the plant

Mr. Dodd estimated the cost of enabling works at approximately \$150 million. As part of the agreement, the City and the private partner will determine which entity will be responsible for which portions of the enabling works: for example, the private entity will be responsible for the pre-treatment facility, as well as an injection well for disposal of water. The remaining work will be contracted and constructed by the City. This division of works will be included in the comprehensive agreement.

Mr. Dodd continued that the original price of the P3 proposal was \$385 million. Since that time, the cost of the plant itself has increased to \$485 million. This is separate from the \$150 million in enabling works. He noted that some projects, such as the connection of the new plant to Fiveash, are less expensive for the City. The City will also pay the new facility's power bills to Florida Power and Light (FPL).

Chair Mammano arrived at 2:37 p.m.

Mr. Zeltman asked if there had been consideration of constructing the new plant on the Fiveash site, which would use the existing transmission system, rather than locating it on the Prospect Wellfield site. He was concerned with the proximity of the Fort Lauderdale Executive Airport (FXE) to the Prospect Wellfield, and asked if there are any other available sites in closer proximity to Fiveash and farther from the airport. Mr. Dodd explained that the Fiveash site is approximately 12 acres in size. The requirements to keep that existing facility in operation, including its administrative building and fuel station, would not leave sufficient space to accommodate a new plant on the same site.

Mr. LaBrie asked if there were other properties available in the area closer to the existing Fiveash plant. Omar Castellon, Assistant Director of Public Works (Engineering), replied that building the new facility on a closer site would still require installing pipe from the wellfield to the new plant.

Mr. Dodd advised that at present, there are two pipes connecting the Prospect Wellfield to the new site, one of which is in operation and one of which serves as a backup. It has been determined that an additional pipe will also be needed to carry fresh water. Once this new pipe is in place, the existing two pipes would be refurbished to convey finished water to Fiveash.

Chair Mammano asked how much this additional pipe is expected to cost. Mr. Dodd explained that its cost is included in the \$150 million worth of enabling works. There will also be modifications to the Fiveash plant, including changes to its pumps and piping, to turn it into a distribution center.

Chair Mammano asked if the enabling works would need to be done whether the City or a P3 was responsible for the new plant. Mr. Dodd replied that this work would be necessary in any case to build a water treatment plant at Prospect Lake. Relying on the two existing pipes alone would not have been feasible, particularly as one of the two would have needed to be taken out of service to be rehabilitated while the Fiveash plant was in operation.

Mr. Zeltman commented that the two existing pipes connecting the wellfield to Fiveash are relatively old and may not be sufficient to serve higher-pressure transmission from the new plant to Fiveash. Mr. Castellon stated that the new pipe would be 54 in. in diameter rather than the 42 in. of the existing pipes. This would be able to accommodate future expansion of the facility.

Mr. Dodd continued the presentation, explaining that at present, the City complies with the required water quality standards; however, there are some issues that need to be addressed, such as the color of the water currently produced at Fiveash. Another concern is the overall condition of the Fiveash plant, which has not undergone hardening to protect it against hurricanes.

The Carollo report proposed the new plant at Prospect Lake, and also recommended that a new plant use a combination of nanofiltration, membrane softening, and ion exchange technology in order to produce 50 million gallons per day. This amount is greater than the City's current needs but takes the possibility of future demand into consideration.

Chair Mammano asked how the 50 million gallons per day output was determined. Mr. Dodd explained that while it would be less expensive to build a plant that provided a lesser amount, the state requires that when a new plant is built, it must be overbuilt so

no more than 75% of its total capacity is used. The City currently produces 38 million gallons per day (MGD). The new plant at 50 MGD would meet the City's needs plus provide the required overbuilding buffer.

Operating the new facility at full capacity would also help the City dial back activity at the Peele-Dixie plant, creating potential savings. Mr. Dodd added that should the new facility require maintenance, Peele-Dixie can also produce more water than its current output. Mr. Dodd concluded that it is more accurate to say the City will be paying for a plant that can produce 50 MGD than it will be paying for 50 MGD.

Mr. LaBrie asked how much water is sold by Fort Lauderdale to other Broward communities. Mr. Castellon replied that the exact amount was not available, but could be provided at a subsequent meeting.

Mr. Dodd continued that if the comprehensive agreement is signed at the end of 2022 or soon after, the construction period is expected to take 42 months. This would put the completion of construction in late 2026. The overall cost estimate of \$485 million would include the cost of constructing the building itself, \$150 million for enabling works, and the City's payment of 75% of initial costs.

Vice Chair Partington requested additional information on the City's 75% of initial costs. Mr. Dodd stated that 100% of this amount would come from a separate bond, which will be paid for through increases to the water rates over time. The City will pay 75% of the \$485 million total on a schedule that will be established in the agreement. Should costs increase or decrease during construction, the City will still pay the same amount per month, which will be locked in through the comprehensive agreement. The private entity will pay the first \$100 million, or 25%, with the City to pay the remaining \$385 million, or 75%. The private entity assumes the risk of any cost overruns and will benefit if prices decrease after the agreement is signed.

Mr. LaBrie requested further clarification of how water rates are expected to increase over time. Mr. Dodd replied that at present, the monthly water bill for a 5000 gallon per day user is \$31. This covers water only. When the proposal was first brought forward in 2020, it would have resulted in a \$66 per month bill for the same use. At present, the City anticipates that the existing \$31 rate will increase to \$73 per month in 2032.

Mr. LaBrie commented that there are many additional costs included in a water bill which can make it difficult for residents to understand. Mr. Dodd pointed out that if the proposed new plant is not designed at present, the City takes on the additional risk of further delaying construction, in which time inflation can have an even greater effect on the water rates.

Mr. LaBrie also requested clarification of where IDE Ridgewood would be making its profit. It was clarified that this would occur through the City's availability payment.

Chair Mammano asked how much money IDE Ridgewood is expected to make at the end of 30 years. Vice Chair Partington stated that this begins at \$30 million per year. Chair Mammano emphasized that the public should see the actual figure the City will have paid for its water at the end of the 30-year period. Vice Chair Partington noted that this will be reflected in the estimated 2032 water bill.

Vice Chair Partington continued that part of the estimated future water bill was developed prior to the P3 and included an amount that would have contributed to the cost of the City's replacing the Fiveash plant on its own. He pointed out that what has changed due to the P3 is a set of figures which reflect the availability payment at the 10-year point. He expressed concern that the public should be able to see the increases generated by the P3.

Mr. Dodd advised that Vice Chair Partington's concerns were accurate, noting that the water rates approved by the City Commission were based on a rate structure and assumptions made in early 2022. Modeling has been done based on the more recent costs of the P3, including the \$485 million and \$100 million costs; however, this modeling has not yet been taken to the Commission. The most recent rate structure also includes the availability payment.

Chair Mammano asked what would become of the funds raised over the last three years, which had been intended for use when the City built a new plant. Mr. Dodd explained that this money will be included in the first check from the City used toward its portion of the \$485 million.

Vice Chair Partington asked how the various figures associated with the project, including construction, the availability payment, enabling works, and other expenses, would affect the projected water rate increases. Mr. Castellon replied that if the City paid to construct the new water treatment plant itself, it would cost approximately 2.7% less.

Mr. Angeli expressed concern with the potential public reaction to these proposals, stating that he has not seen any clear explanation of how the new plant would be paid for. He asserted that there is growing skepticism among the public regarding the expense and construction of the new plant, and emphasized that the capital costs should be kept separate from the operational costs when the plans are presented to the public. He concluded that the public will also need to be clearly informed of what is happening to their water bills and why, and that this should also be kept separate from the capital and operational costs.

Mr. Angeli continued that yet another consideration is the need for the City to cite successful P3s related to water as examples. Mr. LaBrie recalled that at the Committee's October 2022 meeting, there had been discussion of holding a "town hall" meeting to provide information to the public. Chair Mammano also noted that there will be new City Commissioners who will be presented with the P3 agreement as well. Mr.

Dodd advised that it is hoped the town hall-style public meeting could be scheduled by the first week of December.

Chair Mammano requested a summary of currently outstanding issues. Mr. Dodd replied that the greatest issue on which no resolution has been reached thus far is the labor services agreement. The City will provide employees who will work in the new plant under the general framework of IDE Ridgewood operations; however, they will remain City employees. This means the two entities will need to reach agreement on how issues such as termination, discipline, overtime, or replacing employees would be handled. Other concerns include liability and how responsibility for any failures at the plant might be determined.

Chair Mammano asked if the employees at the new plant will work on the same pay scale as employees at other plants, such as Peele-Dixie. Mr. Dodd confirmed that because these will be City employees, they are subject to the same pay grade. He pointed out that there are also questions regarding the input the private entity will have into those employees' evaluations.

Mr. Dodd continued that other annexes in the comprehensive agreement address the quality and expectations of water coming from the wells: should that water quality change, it will affect the new plant's ability to produce clean water to a certain standard. At present, the wells are producing water with no PFAS pollution; if this condition changes, the filtering process must also change in order to meet regulatory requirements. This would require a change order and the City would be responsible for any additional procedure or equipment to address this change.

Mr. Dodd continued that the agreement includes ranges of what could be expected, including less optimal conditions. The intent is to protect the City and create an agreement that is sufficiently robust and flexible to address future changes. He added that in order for the private entity to produce water that meets certain standards, there are monetary penalties to hold that entity accountable if those standards are not met.

Mr. Dodd continued that the design of the plant is based on current Florida Department of Environmental Protection regulations. If these regulations change, the City is responsible for any impacts this may create. He emphasized once more that any changes of this nature would be subject to a change order process, and the City would retain veto power over any changes.

Vice Chair Partington asked if there has been consideration of seeking grant funding for the new plant. Mr. Dodd replied that federal grant applications have several of requirements that would need to be met in the contract for reimbursement. The current comprehensive agreement does not meet all of these requirements.

Vice Chair Partington also asked if the private entity would be willing to change their contract into a construction management contract, which would use more traditional

procurement methods. Mr. Dodd advised that the P3 plans to use a specific design build company with whom they are expected to lock in an agreement once the comprehensive agreement with the City takes effect.

Mr. LaBrie requested clarification of why the project's timeline would have added two years to the time frame if it were undertaken by the City alone. Mr. Dodd replied that if the City signs the comprehensive agreement in December 2022, the private entity could have the design/build contract underway in January 2023. If the City were to proceed on its own, however, they would need to spend three to four months minimum preparing a solicitation for the design/build contract, followed by the procurement process required to bring a contractor on board. It would also take some time for the City to catch up to the private entity's current state of progress.

Mr. Zeltman again addressed the public relations aspect of the agreement, pointing out that the plans will affect not only Fort Lauderdale residents but those in other Broward municipalities who purchase water from Fort Lauderdale. He recommended ensuring that these customers are not left out of the public process. Mr. Dodd stated that a presentation was recently made to the Wilton Manors City Commission, and that Oakland Park has expressed interest in a similar presentation. He added that these customers already pay 25% more than Fort Lauderdale residents, which would mean the increase in water rates will have an even greater impact on them.

It was suggested that the Committee members may wish to meet with the City Commission following the election. Chair Mammano advised that she was not in favor of a meeting of this type until all parties have a clearer understanding of the terms of the proposed agreement, and that the printed materials used to convey this information should be significantly clearer.

Mr. Dodd advised that the first meeting of the new City Commission will take place on Tuesday, November 15, 2022. This meeting would give a better indication of the new Commission's wishes. He had already approached the City Manager to suggest that some time be spent with the Commission at a Conference Agenda meeting to explain the comprehensive agreement before it goes to them for a vote.

Chair Mammano suggested that a workshop could provide a more interactive environment for a joint meeting with the City Commission than a Conference Agenda meeting. She requested that this option be presented to the City Manager. Mr. Dodd advised that he would pass along this proposal, but cautioned that multiple entities will be vying for time with the new Commission, which could make the next month or so a challenging timeline in which to request a workshop.

Chair Mammano concluded that at present, the Committee does not have sufficient clear information to opine on the comprehensive agreement, and that more work remains to be done on the agreement's component parts at this point. The Committee members agreed with this by consensus.

Vice Chair Partington stated that he felt the necessary changes in water rates should be presented along with the comprehensive agreement. He cautioned that the public is unlikely to realize that these water rates would have increased in order to replace Fiveash whether through a P3 or a City project.

Mr. Dodd advised the Committee that at present, there are still no finalized versions of the comprehensive agreement's component parts that can be shown to the Committee, the public, or the City Commission.

3. New Business

None.

4. Public Works Update

i. September Water and Wastewater Break Report

Chair Mammano requested an update on the consultant contract for mapping the City's water system. Assistant Director of Public Works Chris Bennett replied that the consultant has been given the contract to sign and execute. When the signed contract is returned to the City, it will be routed through Procurement for final execution of the contract and issuance of a purchase order. The contract has been approved by the City Commission.

ii. Financial Report

None.

5. General Discussion and Comments

i. Committee Members

Mr. Grabski asked if a joint Florida Department of Transportation (FDOT)/Broward Metropolitan Planning Organization (MPO) sidewalk project on Bayview Drive is subject to final City inspection. He expressed concern that at present, the project's slopes present a number of issues. It was confirmed that because this project is on a City roadway, the City will have a final say on it.

Mr. Grabski also addressed force main replacement, asking if the City plans to take any action about a contractor whose repairs resulted in potholes and other issues. Mr. Castellon replied that the City has required the contractor to address these problems. At least one pothole has already been addressed.

ii. Public Comments

None.

6. Adjournment – NEXT SCHEDULED MEETING DATE – Monday, December 5, 2022

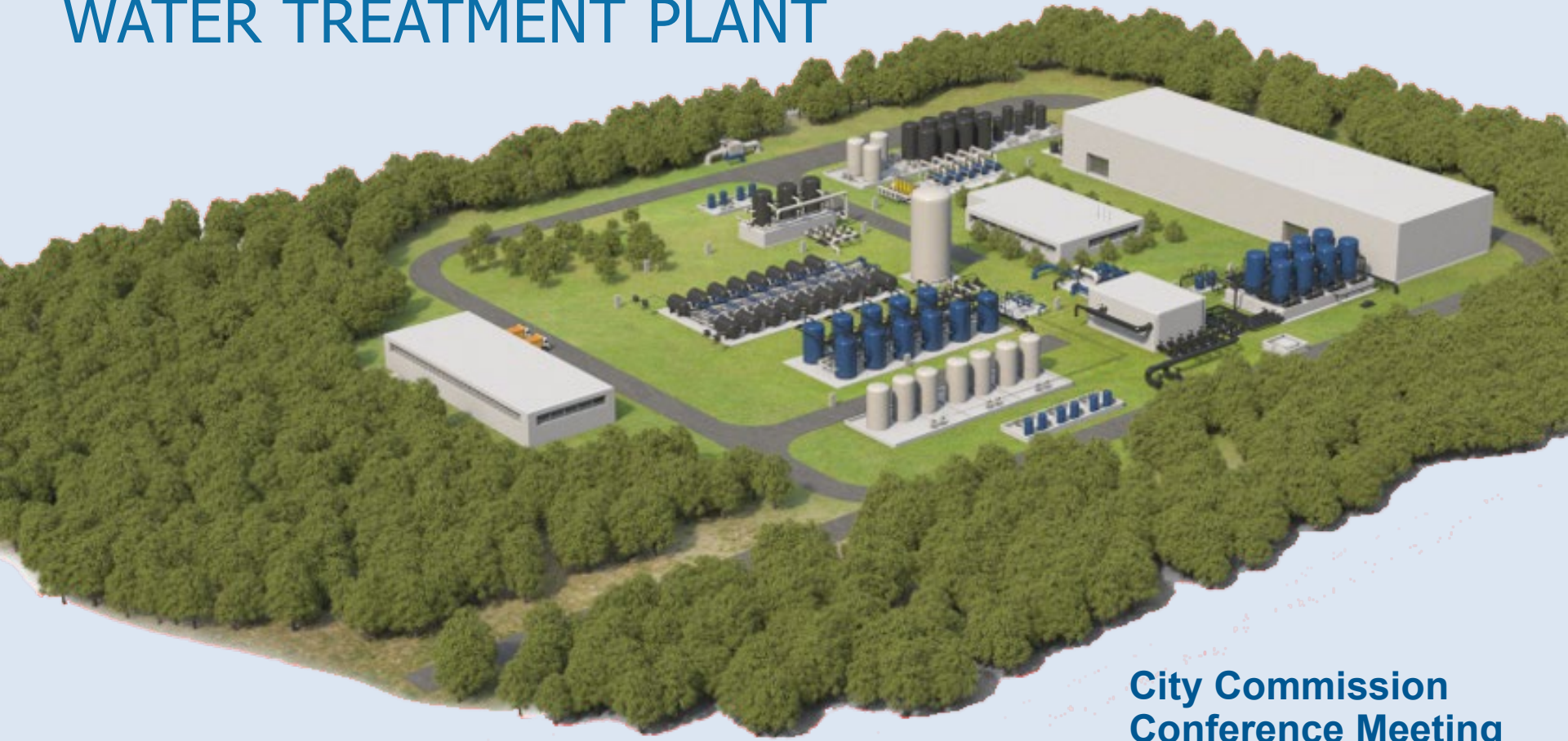
There being no further business to come before the Committee at this time, the meeting was adjourned at 4:03 p.m.

Any written public comments made 48 hours prior to the meeting regarding items discussed during the proceedings have been attached hereto.

[Minutes prepared by K. McGuire, Prototype, Inc.]

PROSPECT LAKE

WATER TREATMENT PLANT



City Commission
Conference Meeting
December 6, 2022



CITY OF FORT LAUDERDALE

Brief overview of the City's existing water treatment infrastructure



Supply
37 wells
Biscayne Aquifer



Fiveash WTP
Lime Softening
Constructed 1954*



Dixie WTP
Nanofiltration
Constructed 2008



Distribution
City owned water
mains ≈ 761 miles



Approximate 2022
population served: **261,000**

*Fiveash WTP was expanded multiple times over the decades

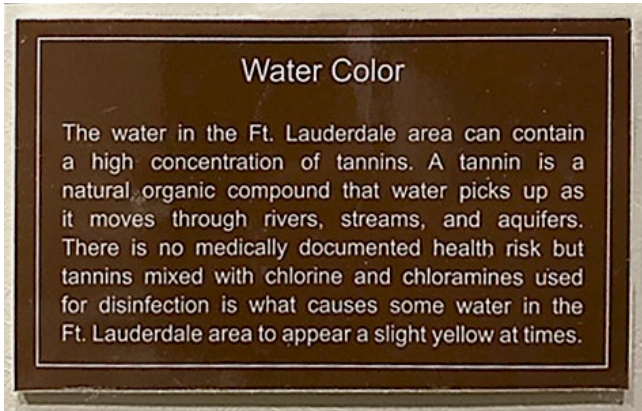


CITY OF FORT LAUDERDALE

Why is a new water plant needed?

Reason 1:

The existing Fiveash WTP cannot meet the City's goal of clear water

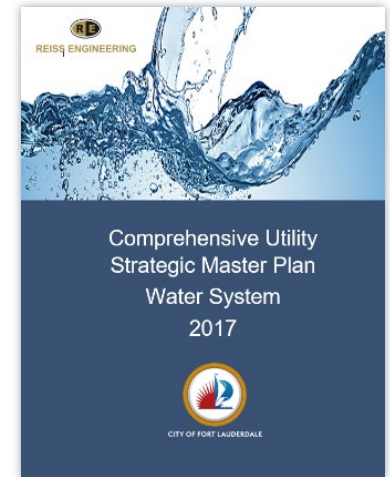


Reason 2:

The Fiveash WTP, constructed in 1954*, is near the end of its useful life, as documented in the City's Master Plan (a.k.a., "Reiss report")



City implements repairs of failing concrete, visual surveillance is ongoing



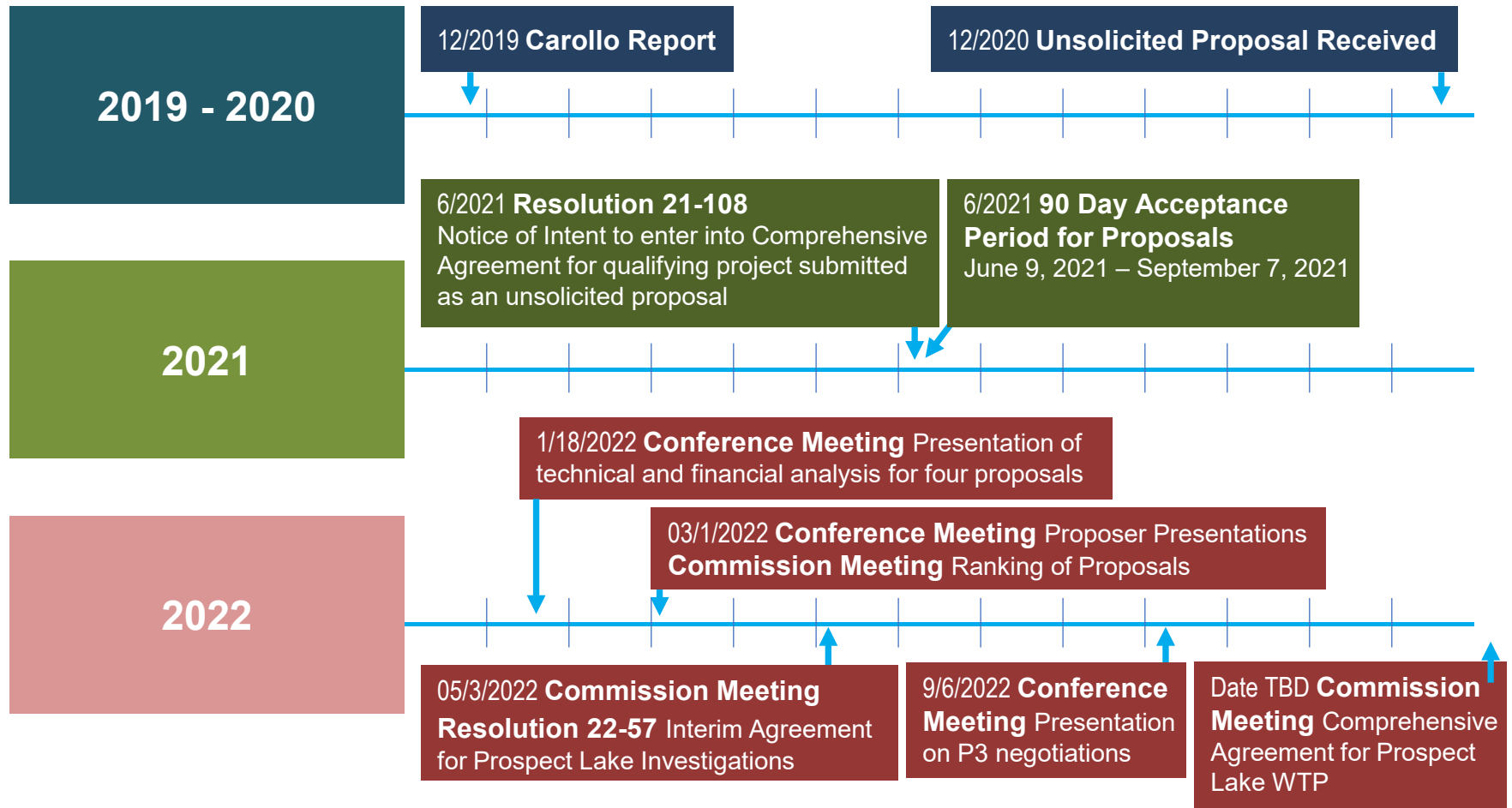
REISS ENGINEERING

*Fiveash WTP was expanded multiple times over the decades



CITY OF FORT LAUDERDALE

Timeline



Project Team to Execute on Delivery and Operations



TEAM & EXPERIENCE

- ✓ Highly cohesive team
- ✓ Depth and breadth within water Treatment
- ✓ Successful track record of project delivery
- ✓ Together IDE and Ridgewood Project Team Members have successfully been involved in the construction and operations of the two largest water P3s in U.S. history

Vista Ridge Pipeline



- ✓ Additional experience with water utilities and desalination



Our Team was specifically formed to replace the Fiveash Regional Water Treatment Plant for the City of Fort Lauderdale



ENGINEERING & CONSTRUCTION

- ✓ IDE modular design that exceeds today's water quality goals
- ✓ Construction team lead by Kiewit, consistently ranked as the largest and best treatment plant contractor



OPERATIONS

- ✓ IDE is a world-class operator with a track-record of success
- ✓ Leverages its global organization to ensure solutions are readily-available

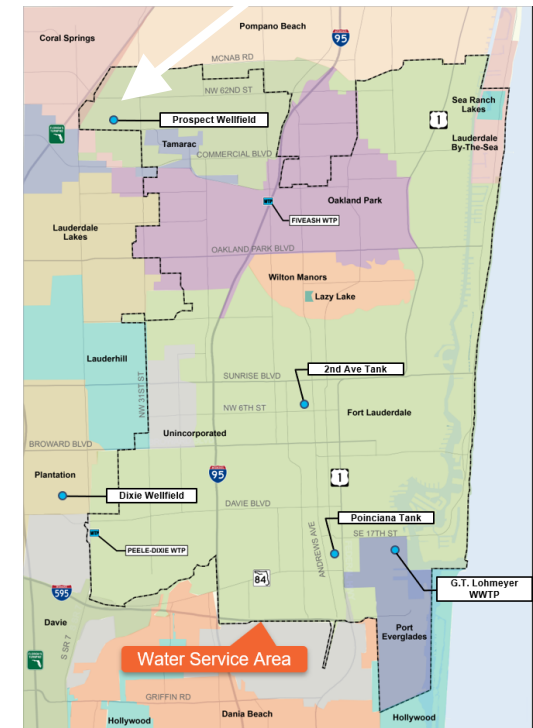


CITY OF FORT LAUDERDALE

Brief overview of the proposed water plant

- Design based on 2020 Carollo study findings:
 - Concluded Fiveash has reached/exceeded useful life
 - Evaluated 17 treatment options and concluded the most “state of the art”/robust treatment system would consist of nanofiltration (35 MGD) and ion exchange system (15 MGD)
- Enhanced design provided by the IDE-Ridgewood Project Team includes several features:
 - Modifications in base design to guarantee that the plant can treat a wider range of feedstock water quality and deliver a higher product water quality
 - New administrative building with lab
 - State of the art physical and cyber security measures
- Key project delivery guarantees:
 - Fully operational plant delivered to the City within 42 months of Notice to Proceed (Q2 2026) (original proposal was 36 months)
 - Fixed price of \$485M (price risk assumed by IDE-Ridgewood Project Team)

The proposed WTP would be constructed at the **Prospect Wellfield** as identified in the Carollo Study



Enabling Works

- Necessary City obligations to provide enabling services and infrastructure to integrate the proposed new WTP into the City's water system
 - Estimated price increased from \$150M to \$181M, fully funded by City (price risk assumed by City)

Cost (Sept 6, 2022 presentation)	\$150M	➔ \$181M*
Worst-case Pretreatment Contingency	\$23M	
Other WTP Modifications to Site Adapt	\$8M	



- City to Construct:
 - Fiveash high service pump upgrades
 - 54" distribution pipe from Prospect to Fiveash
 - Wellfield modifications / Potable water distribution main
 - FPL primary power feed and electrical building
 - Wastewater lift station and forcemain
 - Communications network with Fiveash and wellfield
- Project Company to Construct:
 - 2nd Injection Well (FDEP regulatory requirement)
 - Plant Modifications to Comply with Water Standards Based on Existing Conditions
 - Wellfield Pretreatment Facility and Feed Water Booster Work (\$30M with \$23M contingency cap)
 - Optimal Corrosion Control Treatment (OCCT) Work (FDEP regulatory requirement)

* The increase of \$31M in enabling works is a direct result of adapting the plant to feedstock water conditions and City product water quality standards and to provide a cap for pretreatment work



Operations following Commercial Operation Date (Q2, 2026)

- Operations and Maintenance
 - Facility owned by City; operated and managed by IDE
 - City provides feedstock water, electricity, and chemicals
 - IDE responsible for all maintenance, repair, and replacements
 - City identifies daily water demand (up to 50 MGD) in advance; monitors production water to ensure compliance with city standards
 - Deductions established for failure to deliver daily quantities or non-conforming water
 - Agreement contains defined relief events and procedures to make changes to operational requirements due to changing conditions (ie, new regulatory requirements)
- Labor Services Agreement
 - City employees will staff facility to meet daily operations and maintenance requirements under the operational control of IDE
 - Project Team will provide upper management and supervisory positions with City appointed onsite liaison to serve as single POC for labor issues
 - Employees remain under City collective bargaining agreements
 - The City will make all decisions regarding benefits, hiring, termination, discipline, and assignments



Illustrative Water Plant Rate Impact Summary

- Revised P3 with IDE-Ridgewood Remains Consistent with City's Goals

Description	Key Terms	Details	Average Water Bill 2032 ⁽¹⁾	10-Year % Increase ⁽²⁾	Ongoing Inflation Protection	Construction & Operations Risk Transfer	Timeline for Delivery of Plant	Time in Months
P3 Proposed December 2020	<ul style="list-style-type: none"> \$3.30 Initial Rate 1% Change Per Year 	<ul style="list-style-type: none"> \$385 million capex 	\$66	116%				36 Months
P3 Revised with Enabling Works	<ul style="list-style-type: none"> \$1.61 Initial Rate 5% Change Per Years 1-5 2.5% Change Per Year Thereafter 	<ul style="list-style-type: none"> \$485 million capex \$150 million enabling works City Financing 75% of capex and 100% enabling works City direct pay chemicals 	\$73	139%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	42 Months
City Project Alone (i.e., no P3)	<ul style="list-style-type: none"> City Owned and Operated 	<ul style="list-style-type: none"> \$485 million capex \$150 million enabling works City Financing 100% of capex and enabling works City direct pay chemicals 	\$71	133%				66+ Months
P3 Revised with Enabling Works	<ul style="list-style-type: none"> \$1.61 Initial Rate 5% Change Per Years 1-5 2.5% Change Per Year Thereafter 	<ul style="list-style-type: none"> \$485 million capex \$181 million enabling works City Financing 75% of capex and 100% enabling works City direct pay chemicals 	\$75	143%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	42 Months

(1) Assumes 5,000 gallon average – compared to \$31 in 2022

(2) Includes regularly scheduled 3.6% annual increases which equal 37% over 10 years



Illustrative Water Plant Rate Impact Summary

Rate Model Includes:

- No change to 10 year projected budgeted line items
- Add:
 - Annual Payment to P3 Provider (+5% years 1-5; +2.5% thereafter)
 - Cost of City Debt Service (assumes level debt service)
 - 75% of \$485 Million
 - 100% of Enabling Works of \$150 Million (adjusted to \$181 Million*)
 - Assumes 30 year level debt service with TIC of 4.10%
 - Additional Chemical Costs
- Rate structure to be in place at time of debt issuance (approx. 6 months after Comprehensive Agreement)

	-3	-2	-1	1	2	3	4	5	6	7
Price Per Million Gallons				1.61	1.69	1.78	1.86	1.96	2.055	2.11
Guarantee				50,000	50,000	50,000	50,000	50,000	50,000	50,000
Days				365	365	365	365	365	365	365
				29,382,500	30,851,625	32,394,206	34,013,917	35,714,612	37,500,343	38,437,852
Add Additional Chemicals				6,150,000	6,334,500	6,524,535	6,720,271	6,921,879	7,129,536	7,343,422
City Debt Service *	19,221,788	24,684,400	24,688,600	31,157,075	31,159,275	31,155,475	31,156,975	31,157,975	31,160,375	31,155,975
(75%) Level Debt Service	19,221,788	24,684,400	24,688,600	66,689,575	68,345,400	70,074,216	71,891,163	73,794,467	75,790,254	76,937,248

* including \$150M Enabling Works



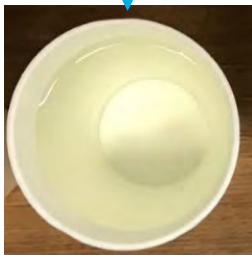
How will a new plant benefit the City?

Color reduction

while continuing to meet all regulatory standards

- **Prospect WTP:** Expected color below visual detection 90% of time

• **Fiveash WTP:**
Finished water average color = 17



Improved reliability and storm resistance



State-of-the-art treatment technology will be better able to comply with future regulations



Risk transfer to IDE-Ridgewood protects the City from inflation and ensures on-time delivery

Risk Elements	Transferred to IDE-Ridgewood?
Design	✓
Construction	✓
On-time Delivery	✓
Operations	✓
O&M Cost Overruns	✓
Capital Maintenance	✓
Maintain AWWA Standards	✓



Next Steps



City of Fort
Lauderdale



- Continue review of Comprehensive Agreement with all Annexes and Labor Services Agreement
- City to meet with Teamsters
- City Town Hall presentation for the public
- Public website with all documents and presentations
- Comprehensive Agreement and Labor Services Agreement tentatively scheduled for City Commission consideration on December 20, 2022



CITY OF FORT LAUDERDALE

**Water & Sewer Bond Expenditures Summary
as of 11/29/2022**

Bond Funded Projects by Category	Total Budget Amount	Actuals as of 11.29.2022	% Spent to Date as of 11.29.2022	Encumbrances as of 11.29.2022	Remaining Balance as of 11.29.2022
Finance	23,595,311	19,803,573	84%	2,714,489	1,077,249
Fiveash Upgrades	24,656,858	6,204,502	25%	4,434,093	14,018,263
GTL Upgrades	14,000,000	26,622	0%	500,000	13,473,378
I&I	17,303,547	14,915,378	86%	46	2,388,123
Master Plan/Report	2,109,625	934,180	44%	989,883	185,562
Peele Dixie Upgrades	163,133	95,235	58%	12,856	55,042
Sewer Basin	1,821,149	1,299,841	71%	29	521,280
Sewer Force main	100,242,361	76,877,364	77%	4,410,012	18,954,986
Watermain	20,546,519	20,087,765	98%	37,646	421,108
Grand Total	204,438,503	140,244,459	69%	13,099,054	51,094,990

Index Code / Project Title	Category	Project Status	Budget	Actuals as of 11.29.2022	% Spent to Date as of 11.29.2022	Encumbrances as of 11.29.2022	Remaining Balance as of 11.29.2022
FD495.01 WATER & SEWER MASTER PLAN 2017	Finance	Implementation	21,611,457.21	17,970,991.00	83%	2,650,807.51	989,658.70
FD496.01 WATER & SEWER REGIONAL MASTER PLAN 2017	Finance	Implementation	1,983,854.00	1,832,582.00	92%	63,681.69	87,590.31
P10814.495 CENTRAL NEW RIVER W/MAIN RIVER CROSSING	Watermain	Construction	951,318.31	951,743.31	100%	-	(425.00)
P10850.495 VICTORIA PARK A NORTH-SMALL WATERMAINS	Watermain	Warranty	4,435,773.00	4,434,667.95	100%	-	1,105.05
P11080.495 PORT CONDO SMALL WATER MAIN IMPROVEMENTS	Watermain	Close-Out	932,320.00	894,739.85	96%	37,579.15	1.00
P11563.495 VICTORIA PARK SEWER BASIN A-19 REHAB	I&I	Construction	5,832,153.00	5,755,389.48	99%	6.11	76,757.41
P11566.495 RIO VISTA SEWER BASIN D-43 REHAB	I&I	Construction	4,268,936.00	4,231,958.29	99%	14.97	36,962.74
P11589.495 FIVEASH WTP DISINFECTION IMPROVEMENTS	Fiveash Upgrades	Construction	16,417,546.00	1,666,915.88	10%	1,150,678.11	13,599,952.01
P11901.495 VICTORIA PK STH SM WATERMAINS IMPROVEMNT	Watermain	Warranty	5,149,658.00	5,142,771.80	100%	65.00	6,821.20
P11991.495 DOWNTOWN SEWER BASIN PS A-7 REHABILITATION	I&I	Construction	2,000,000.00	193,977.22	10%	-	1,806,022.78
P12049.495 FLAGLER HEIGHTS SWR BASIN A-21 LATERALS	I&I	Construction	1,318,983.00	850,589.07	64%	13.66	468,380.27
P12055.495 BASIN A-18 SANITARY SWR COLL SYSTM REHAB	I&I	Construction	3,883,475.00	3,883,463.47	100%	11.53	0.00
P12133.495 PUMP STN A-13 REDIRECTION E OF FEDERAL	Sewer Force main	Complete	478,013.50	478,013.50	100%	-	-
P12180.495 CROISSANT PARK SMALL WATER MAINS	Watermain	Complete	2,822,718.37	2,822,718.37	100%	-	-
P12184.495 DAVIE BLVD 18" WM ABAN I-95 TO SW 9 AVE	Watermain	Hold	297,692.25	297,692.25	100%	0.22	(0.22)
P12202.495 LIFT STATN D-11 FLOW ANALYSIS & REDESIGN	Sewer Basin	Complete	1,224,357.61	1,224,357.61	100%	-	-
P12319.495 EMERG REPAIR 30" FM - REPUMP TO GTL WWTP	Sewer Force main	Complete	2,697,298.64	2,697,298.64	100%	-	-
P12352.495 S MIDDLE RIVER FORCE MAIN RIVER CROSSING	Sewer Force main	Finance	608,999.50	608,999.50	100%	-	-
P12367.495 ASSET MANAGEMENT & CMOM PROGRAMS	Master Plan/Report	Project Initiation Planning	-	-	-	-	-
P12367.496 ASSET MANAGEMENT & CMOM PROGRAMS	Master Plan/Report	Project Initiation Planning	-	-	-	-	-
P12368.495 SEWER CAPACITY ANLY FOR GRAVITY & FM	Master Plan/Report	Project Initiation Planning	-	-	-	-	-
P12368.496 SEWER CAPACITY ANLY FOR GRAVITY & FM	Master Plan/Report	Project Initiation Planning	-	-	-	-	-
P12375.495 PROG MGMT OF CONSENT ORDER PROJECTS	Master Plan/Report	Project Initiation Planning	1,462,500.00	774,081.02	53%	686,689.47	1,729.51
P12375.496 PROG MGMT OF CONSENT ORDER PROJECTS	Master Plan/Report	Project Initiation Planning	115,000.00	111,261.14	97%	3,738.86	0.00
P12383.496 NE 25TH AVE FORCE MAIN REPLACEMENT	Sewer Force main	Project Initiation Planning	4,784,890.00	491,320.31	10%	458,312.22	3,835,257.47
P12384.496 NE 38TH ST 42" FM & NE 19TH AV 24" FM	Sewer Force main	Project Initiation Planning	2,096,690.00	623,545.28	30%	681,700.26	791,444.46

Index Code / Project Title	Category	Project Status	Budget	Actuals as of 11.29.2022	% Spent to Date as of 11.29.2022	Encumbrances as of 11.29.2022	Remaining Balance as of 11.29.2022
P12385.496 SE 10TH AV 48" FM REPL & 36" BYPASS	Sewer Force main	Cancelled	18,326.00	18,326.00	100%	-	-
P12386.496 54" FM RPL SE 9TH/10TH AV & NEW PARALLEL	Sewer Force main	Cancelled	6,072.00	6,072.00	100%	-	-
P12387.496 EFFLUENT MAIN REHABILITATION	Sewer Force main	Design	3,184,000.00	89,496.00	3%	294.00	3,094,210.00
P12388.495 NE 13TH ST 24" FORCE MAIN REPLACEMENT	Sewer Force main	Warranty	3,313,090.00	3,065,963.94	93%	247,126.06	0.00
P12389.495 18" FM RPL ACROSS NEW RVR FRM 9TH/ BIRCH	Sewer Force main	Complete	2,112,550.00	2,105,749.34	100%	6,800.66	0.00
P12390.495 16" FM ALONG LAS OLAS BLVD PHASE 2	Sewer Force main	Complete	2,410,943.21	2,410,943.21	100%	-	-
P12391.495 BERMUDA RIVIERA SML WTRMN IMPROVEMENTS	Watermain	Complete	4,838,040.72	4,424,433.33	91%	1.63	413,605.76
P12393.495 FIVEASH ELEC SYSTM REPLACEMENT (2015-20)	Fiveash Upgrades	Design	256,827.50	26,622.00	10%	-	230,205.50
P12395.495 PEELE DIXIE ELECTRICAL STUDIES	Peele Dixie Upgrades	Master Plan & Report	63,133.00	63,133.00	100%	-	-
P12396.495 PEELE DIXIE SURGE PROTECTION UPGRADES	Peele Dixie Upgrades	Construction	100,000.00	32,101.72	32%	12,856.00	55,042.28
P12399.495 FIVEASH WTP PCCP REPLACEMENT	Fiveash Upgrades	Complete	33,511.00	33,511.00	100%	-	-
P12400.495 PROSPECT WELLFIELD ELC STUDIES & TESTING	Master Plan/Report	Project Initiation Planning	185,000.00	1,168.00	1%	-	183,832.00
P12402.495 PEELE DIXIE WELLFIELD ELC STUD & TESTING	Master Plan/Report	Project Initiation Planning	47,669.50	47,669.50	100%	-	-
P12404.495 EXCAVATE & DISPOSE OF DRY LIME SLUDGE	Fiveash Upgrades	Warranty	4,228,973.31	4,228,973.31	100%	-	-
P12406.496 REDUNDANT FORCE MAIN FROM B-REPUMP	Sewer Force main	Cancelled	10,377.00	10,377.00	100%	-	-
P12407.495 SUBACQUEOUS FM CROSSING REINSTATEMENT	Sewer Force main	Cancelled	-	-	-	-	-
P12410.495 PUMP STATION C-1 REPLACEMENT	Sewer Force main	Bidding	620,000.00	38,369.00	6%	-	581,631.00
P12412.495 PUMP STATIONS A-16 UPGRADE	Sewer Force main	Design	3,000,000.00	34,192.00	1%	-	2,965,808.00
P12413.495 FM FROM PUMP STN D-35 TO D-36 UPSIZE	Sewer Force main	Complete	517,445.12	517,445.12	100%	-	-
P12414.495 GRAVITY PIPE IMPV TO DWNTWN COL SYSTM	Sewer Force main	Hold	3,335,370.00	193,226.90	6%	82,770.85	3,059,372.25
P12415.495 PUMP STATION A-7 UPGRADE	Sewer Force main	Construction	2,582,888.69	2,257,689.67	87%	237,825.32	87,373.70
P12418.495 WTR & W/WTR D & C SYSTEM MAPPING	Master Plan/Report	Project Initiation Planning	-	-	-	-	-
P12419.495 FORCE MAIN ASSESSMENT	Master Plan/Report	Complete	-	-	-	-	-
P12419.496 FORCE MAIN ASSESSMENT	Master Plan/Report	Complete	-	-	-	-	-
P12456.495 SEWER BASIN D-40 REHAB	Sewer Basin	Construction	169,237.00	48,596.51	29%	28.75	120,611.74
P12463.495 CORAL SHORES SML WATERMAIN IMPROVEMENTS	Watermain	Warranty	1,118,998.00	1,118,998.00	100%	-	-
P12485.495 FIVEASH WTP FILTERS REHABILITATION	Fiveash Upgrades	Construction	3,720,000.00	248,480.05	7%	3,283,414.95	188,105.00
P12529.496 EFFLUENT PMP STNBY GENERATOR & ADMIN BLD	GTL Upgrades	Project Initiation Planning	14,000,000.00	26,622.00	0%	500,000.00	13,473,378.00
P12566.496 REDUNDANT SEWER FM NORTH TO GTL WWTP	Sewer Force main	Construction	25,225,638.08	25,202,609.32	100%	23,028.76	(0.00)
P12567.496 REDUNDANT SEWER FM SOUTH TO GTL WWTP	Sewer Force main	Close-Out	35,249,740.92	33,720,749.12	96%	57,148.58	1,471,843.22
P12569.495 NE 5TH STREET FORCE MAIN IMPROVEMENT	Sewer Force main	Complete	1,928,910.00	1,928,910.00	100%	-	-
P12570.495 36TH STREET FORCE MAIN IMPROVEMENT	Watermain	Complete	-	-	-	-	-
P12605.495 NEW PUMPING STATION FLAGLER VILLAGE A-24	Sewer Force main	Bidding	681,243.69	6,090.00	-	-	675,153.69
P12618.495 DOLPHIN ISLES B-14 SEWER BASIN REHAB	Sewer Basin	Project Initiation Planning	427,554.88	26,887.00	6%	-	400,667.88
P12619.495 BAYVIEW DR 16" FM TO PUMP STATION B-14	Sewer Force main	Design	2,570,000.00	62,102.69	2%	115,004.84	2,392,892.47
P12620.495 LAS OLAS MARINA PUMP STATION D-31	Sewer Force main	Project Initiation Planning	2,500,000.00	-	0%	2,500,000.00	-
P12628.495 INTERLOCAL AGREEMENT WITH POMPANO BEACH	Master Plan/Report	Close-Out	299,455.00	-	0%	299,455.00	-
P12731.495 GRAVITY SWR RPR BAYVIEW FRM 36 TO 40 ST	Sewer Force main	Construction	309,875.00	309,875.00	100%	-	-
Totals			204,438,503	140,244,459	69%	13,099,054	51,094,990

Consent Order Projects Financial Report Summary
as of 11/29/2022

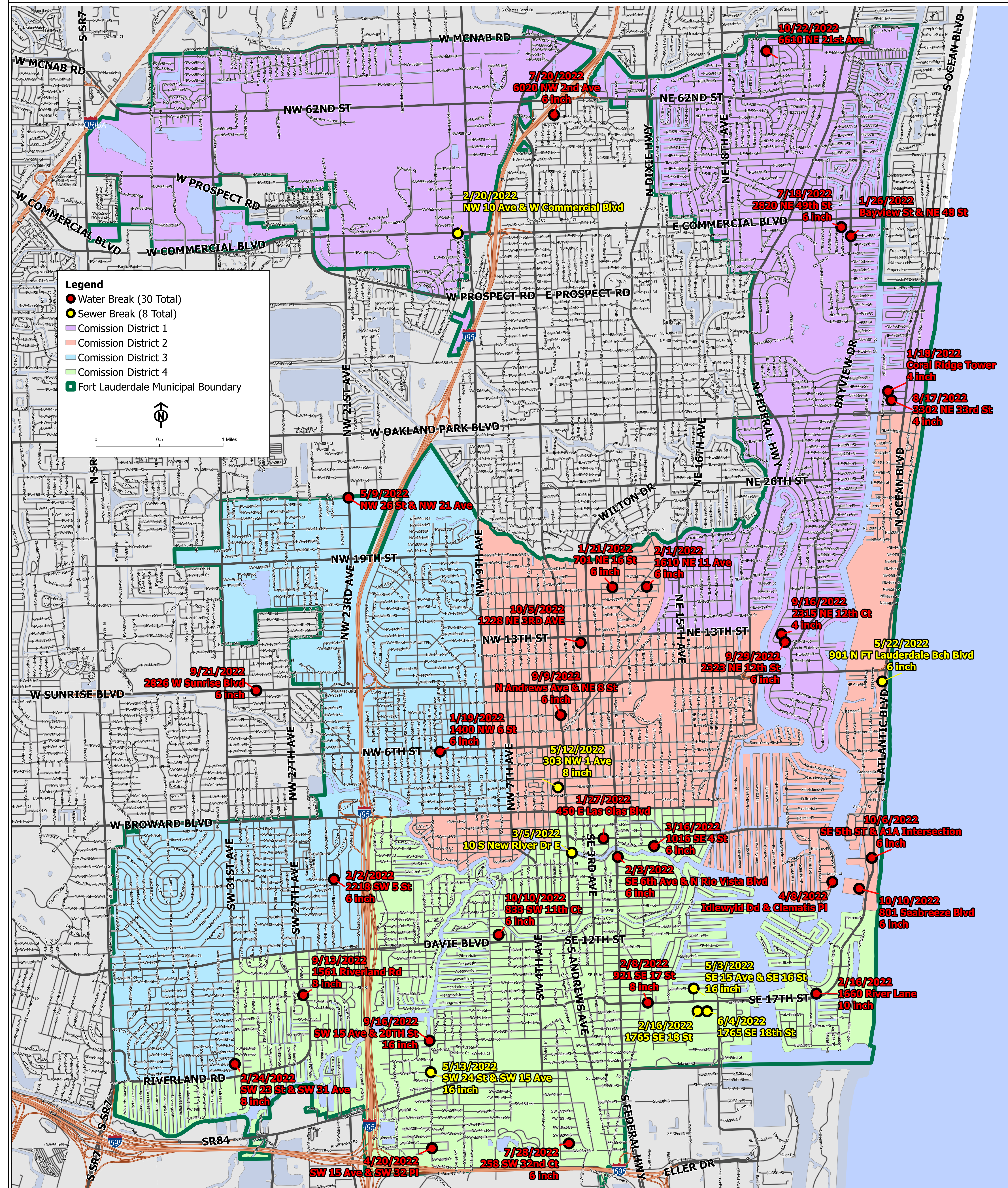
Consent Order Projects by Category	Budget	Actuals as of 11.29.2022	% Spent to Date as of 11.29.2022	Encumbrances as of 11.29.2022	Remaining Balance as of 11.29.2022
GTL Upgrades	28,295,566	185,199	1%	500,003	27,610,365
I&I	37,844,732	27,473,689	73%	4,093,459	6,277,584
Master Plan/Report	18,372,905	7,423,177	40%	2,673,529	8,276,199
Sewer Basin	2,164,992	2,164,992	100%	0	(0)
Sewer Force Main	120,269,528	104,496,087	87%	1,562,234	14,211,206
Stormwater	49,926,525	12,959,790	26%	35,892,932	1,073,803
Grand Total	256,874,249	154,702,936	60%	44,722,156	57,449,157

Consent Order Projects Financial Report
as of 11/29/2022

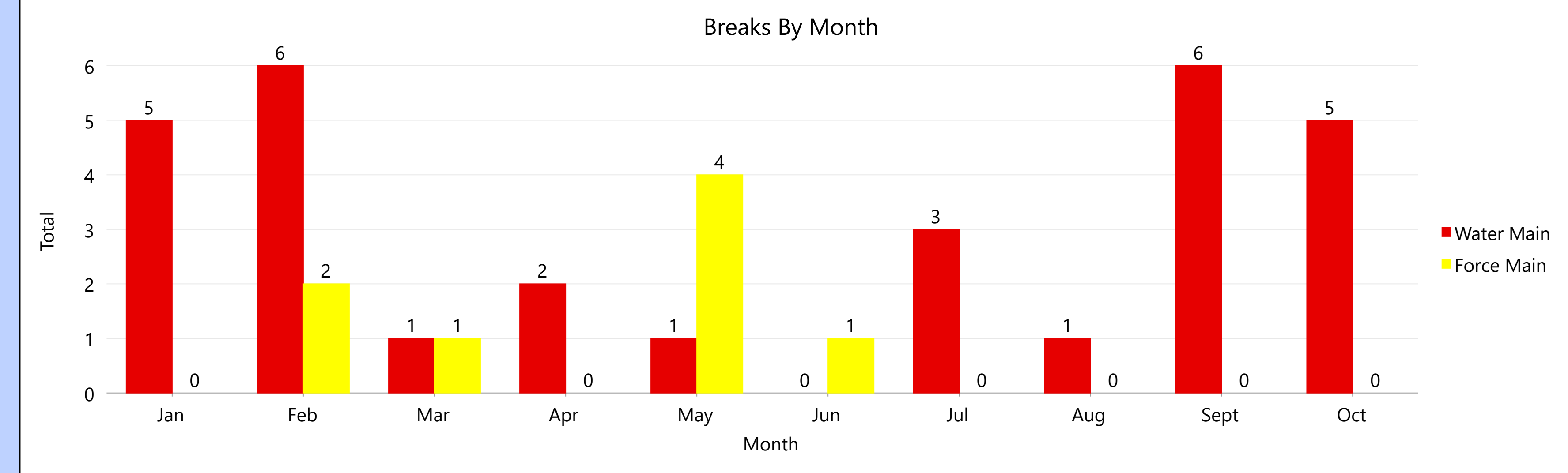
Index Code / Project Title	Category	Project Status	Budget	Actuals as of 11.29.2022	% Spent to Date as of 11.29.2022	Encumbrances as of 11.29.2022	Remaining Balance as of 11.29.2022
P11563.454 VICTORIA PARK SEWER BASIN A-19 REHAB			1,606,619.00	1,525,725		-	80,894
P11563.482 VICTORIA PARK SEWER BASIN A-19 REHAB			-	-			-
P11563.495 VICTORIA PARK SEWER BASIN A-19 REHAB			5,832,153.00	5,755,389		6	76,758
P11563 TOTAL PROJECT COSTS	I&I	Construction	7,438,772	7,281,114	98%	6	157,652
P11566.454 RIO VISTA SEWER BASIN D-43 REHAB			3,523,431	2,206,730		574,958	741,743
P11566.482 RIO VISTA SEWER BASIN D-43 REHAB			381	381		-	-
P11566.495 RIO VISTA SEWER BASIN D-43 REHAB			4,268,936	4,231,958		15	36,963
P11566 TOTAL PROJECT COSTS	I&I	Construction	7,792,748	6,439,069	83%	574,973	778,706
P11842.470 EDGEWOOD STORMWATER PRELIMINARY DATA & REPORT			1,928,448	1,916,294		12,152	2
P11842.473 EDGEWOOD STORMWATER PRELIMINARY DATA & REPORT			16,846,632	5,182,313		11,664,319	-
P11842 TOTAL PROJECT COSTS	Stormwater	Construction	18,775,080	7,098,607	38%	11,676,471	2
P11868.470 RIVER OAKS STORMWATER ANALYSIS			957,578	903,404		23,771	30,403
P11868.473 RIVER OAKS STORMWATER ANALYSIS			29,035,000	4,713,427		24,152,855	168,718
P11868 TOTAL PROJECT COSTS	Stormwater	Construction	29,992,578	5,616,831	19%	24,176,626	199,121
P11879.454 PUMP STATION B-10 REHAB			1,908,427	1,908,427		-	-
P11879 TOTAL PROJECT COSTS	Sewer Force Main	Complete	1,908,427	1,908,427	100%	-	-
P11881.454 PUMP STATION D-45 REHABILITATION			509,868	509,868		-	-
P11881 TOTAL PROJECT COSTS	Sewer Force Main	Complete	509,868	509,868	100%	-	-
P11991.454 DOWNTOWN SEWER BASIN PS A-7 REHABILITATION			9,664,894	4,715,782		3,518,454	1,430,659
P11991.482 DOWNTOWN SEWER BASIN PS A-7 REHABILITATION			3,335	3,335		-	-
P11991.495 DOWNTOWN SEWER BASIN PS A-7 REHABILITATION			2,000,000	193,977		-	1,806,023
P11991 TOTAL PROJECT COSTS	I&I	Construction	11,668,229	4,913,094	42%	3,518,454	3,236,682
P12001.454 SEWER BASIN D-40 REHAB			731,713	731,713		-	-
P12001.482 SEWER BASIN D-40 REHAB			3,766	3,766		-	-
P12001 TOTAL PROJECT COSTS	Sewer Basin	Complete	735,479	735,479	100%	-	-
P12049.454 FLAGLER HEIGHTS SWR BASIN A-21 LATERALS			2,457,469	1,209,044		-	1,248,425
P12049.482 FLAGLER HEIGHTS SWR BASIN A-21 LATERALS			8,255	8,255		-	-
P12049.495 FLAGLER HEIGHTS SWR BASIN A-21 LATERALS			1,318,983	850,589		14	468,380
P12049 TOTAL PROJECT COSTS	I&I	Construction	3,784,707	2,067,888	55%	14	1,716,805
P12055.454 BASIN A-18 SANITARY SWR COLL SYSTM REHAB			3,276,801	2,889,061		1	387,739
P12055.482 BASIN A-18 SANITARY SWR COLL SYSTM REHAB			-	-		-	-
P12055.495 BASIN A-18 SANITARY SWR COLL SYSTM REHAB			3,883,475	3,883,463		12	(0)
P12055 TOTAL PROJECT COSTS	I&I	Construction	7,160,276	6,772,524	95%	13	387,739
P12124.454 CNTRL BCH ALLIANCE PUMP STN REPLAC D-41			2,132,448	2,132,448		-	0
P12124 TOTAL PROJECT COSTS	Sewer Force Main	Complete	2,132,448	2,132,448	100%	-	-
P12133.454 PUMP STN A-13 REDIRECTION E OF FEDERAL			4,147,596	4,147,596		-	-
P12133.495 PUMP STN A-13 REDIRECTION E OF FEDERAL			478,014	478,014		-	-
P12133 TOTAL PROJECT COSTS	Sewer Force Main	Complete	4,625,610	4,625,610	100%	-	-
P12177.454 E LAS OLAS 12" FORCE MAIN REPLACEMENT			1,689,730	1,689,730		-	-
P12177 TOTAL PROJECT COSTS	Sewer Force Main	Complete	1,689,730	1,689,730	100%	-	-
P12202.454 LIFT STATN D-11 FLOW ANALYSIS & REDESIGN			205,156	205,156		0	(0)
P12202.495 LIFT STATN D-11 FLOW ANALYSIS & REDESIGN			1,224,358	1,224,358		-	p
P12202 TOTAL PROJECT COSTS	Sewer Basin	Complete	1,429,513	1,429,513	100%	0	(0)
P12264.470 CITYWIDE CANAL DREDGING PLAN - CYCLE 1			1,158,867	244,352		39,835	874,680
P12264 CITYWIDE CANAL DREDGING PLAN - CYCLE 1	Stormwater	Design	1,158,867	244,352	21%	39,835	874,680
P12319.454 EMERG REPAIR 30" FM - REPUMP TO GTL WWTP			13,182,064	13,182,064		-	-
P12319.495 EMERG REPAIR 30" FM - REPUMP TO GTL WWTP			2,697,299	2,697,299		-	-
P12319 TOTAL PROJECT COSTS	Sewer Force Main	Complete	15,879,363	15,879,363	100%	-	-
P12352.454 S MIDDLE RIVER FORCE MAIN RIVER CROSSING			874,016	874,015		0	(0)
P12352.495 S MIDDLE RIVER FORCE MAIN RIVER CROSSING			609,000	609,000		-	-
P12352 TOTAL PROJECT COSTS	Sewer Force Main	Finance	1,483,015	1,483,015	100%	0	0
P12367.495 ASSET MANAGEMENT & CMOM PROGRAMS			-	-		-	-
P12367.496 ASSET MANAGEMENT & CMOM PROGRAMS			-	-		-	-
FD495.01 WATER & SEWER MASTER PLAN 2017			871,387	533,008		338,380	(1)
FD496.01 WATER & SEWER REGIONAL MASTER PLAN 2017			204,430	125,057		79,373	-
P12367 TOTAL PROJECT COSTS	Master Plan/Report	Project Initiation & Planning	1,075,817	658,065	61%	417,753	(1)
P12368.495 SEWER CAPACITY ONLY FOR GRAVITY & FM			-	-		-	-
P12368.496 SEWER CAPACITY ONLY FOR GRAVITY & FM			-	-		-	-
FD495.01 WATER & SEWER MASTER PLAN 2017			725,896	725,759		137	-
FD496.01 WATER & SEWER REGIONAL MASTER PLAN 2017			35,560	35,553		7	-
PBS670501 LOHMEYER REGIONAL PLANT SUPPORT			9,811	9,799		12	-
PBS060101 UTILITIES ENGINEERING OPERATIONS			200,279	200,025		254	-
P12368 TOTAL PROJECT COSTS	Master Plan/Report	Project Initiation & Planning	971,546	971,136	100%	410	-
P12375.451 PROG MGMT OF CONSENT ORDER PROJECTS			1,295,458	698,670		507,723	89,066

Index Code / Project Title	Category	Project Status	Budget	Actuals as of 11.29.2022	% Spent to Date as of 11.29.2022	Encumbrances as of 11.29.2022	Remaining Balance as of 11.29.2022
P12375.454 PROG MGMT OF CONSENT ORDER PROJECTS			1,013,442	816,067		40,197	157,179
P12375.495 PROG MGMT OF CONSENT ORDER PROJECTS			1,462,500	774,081		686,689	1,730
P12375.496 PROG MGMT OF CONSENT ORDER PROJECTS			115,000	111,261		3,739	0
P12375 TOTAL PROJECT COSTS	Master Plan/Report	Project Initiation & Planning	3,886,400	2,400,078	62%	1,238,348	247,974
P12383.451 NE 25TH AVE FORCE MAIN REPLACEMENT			1,363,353	3,393	0%	-	1,359,960
P12383.496 NE 25TH AVE FORCE MAIN REPLACEMENT			4,784,890	491,320		458,312	3,835,258
P12383 TOTAL PROJECT COSTS	Sewer Force Main	Project Initiation & Planning	6,148,243	494,713	8%	458,312	5,195,218
P12384.496 NE 38TH ST 42" FM & NE 19TH AV 24" FM			2,096,690	623,545		681,700	791,445
P12384 TOTAL PROJECT COSTS	Sewer Force Main	Project Initiation & Planning	2,096,690	623,545	30%	681,700	791,445
P12387.496 EFFLUENT MAIN REHABILITATION			3,184,000	89,496		294	3,094,685
P12387 TOTAL PROJECT COSTS	Sewer Force Main	Design	3,184,000	89,496	3%	294	3,094,210
P12388.454 NE 13TH ST 24" FORCE MAIN REPLACEMENT			3,761,244	190,584		67,848	3,502,813
P12388.495 NE 13TH ST 24" FORCE MAIN REPLACEMENT			3,313,090	3,065,964		247,126	0
P12388 TOTAL PROJECT COSTS	Sewer Force Main	Warranty	7,074,334	3,256,548	46%	314,974	3,502,813
P12389.454 18" FM RPL ACROSS NEW RVR FRM 9TH/ BIRCH			238,620	126,325			112,295
P12389.495 18" FM RPL ACROSS NEW RVR FRM 9TH/ BIRCH			2,112,550	2,105,749		6,801	0
P12389 TOTAL PROJECT COSTS	Sewer Force Main	Complete	2,351,170	2,232,074	95%	6,801	112,295
P12390.454 16" FM ALONG LAS OLAS BLVD PHASE 2			637,577	637,577		-	-
P12390.495 16" FM ALONG LAS OLAS BLVD PHASE 2			2,410,943	2,410,943		0	(0)
P12390 TOTAL PROJECT COSTS	Sewer Force Main	Complete	3,048,520	3,048,520	100%	0	(0)
P12413.454 FM FROM PUMP STN D-35 TO D-36 UPSIZE			615,099	615,099		-	-
P12413.495 FM FROM PUMP STN D-35 TO D-36 UPSIZE			517,445	517,445		-	-
P12413 TOTAL PROJECT COSTS	Sewer Force Main	Complete	1,132,545	1,132,545	100%	-	-
P12418.495 WTR & W/WTR D & C SYSTEM MAPPING			4,000,000	-		-	4,000,000
FD495.01 WATER & SEWER MASTER PLAN 2017			3,441,353	2,424,335		1,017,018	
P12418 TOTAL PROJECT COSTS	Master Plan/Report	Project Initiation & Planning	7,441,353	2,424,335	33%	1,017,018	4,000,000
P12419.495 FORCE MAIN ASSESSMENT			3,813,200			-	3,813,200
P12419.496 FORCE MAIN ASSESSMENT			-			-	-
FD495.01 WATER & SEWER MASTER PLAN 2017			924,284	924,284		-	-
FD496.01 WATER & SEWER REGIONAL MASTER PLAN 2017			45,279	45,279		-	-
P12419 TOTAL PROJECT COSTS	Master Plan/Report	Complete	4,782,763	969,563	20%	-	3,813,200
P12529.451 EFFLUENT PUMPS STANDBY GENERATOR & ADMIN BLDG IMPROVEMENTS			14,295,566	165,363		3	14,130,201
P12529.496 EFFLUENT PUMPS STANDBY GENERATOR & ADMIN BLDG IMPROVEMENTS			14,000,000	19,836		500,000	13,480,164
P12529 EFFLUENT PUMPS STANDBY GENERATOR & ADMIN BLDG IMPROVEMENTS	GTL Upgrades	Project Initiation & Planning	28,295,566	185,199	1%	500,003	27,610,365
P12566.451 REDUNDANT SEWER FM NORTH TO GTL WWTP			4,524,621	4,461,262		19,976	43,383
P12566.496 REDUNDANT SEWER FM NORTH TO GTL WWTP			25,225,638	25,202,609		23,029	(0)
P12566 TOTAL PROJECT COSTS	Sewer Force Main	Construction	29,750,259	29,663,871	100%	43,004	43,383
P12567.496 REDUNDANT SEWER FM SOUTH TO GTL WWTP			35,249,741	33,720,749		57,149	1,471,843
P12567 TOTAL PROJECT COSTS	Sewer Force Main	Closeout	35,249,741	33,720,749	96%	57,149	1,471,843
P12569.495 NE 5TH STREET FORCE MAIN IMPROVEMENT			1,928,910	1,928,910		-	-
P12569 TOTAL PROJECT COSTS	Sewer Force Main	Complete	1,928,910	1,928,910	100%	-	-
P12570.495 36TH STREET FORCE MAIN IMPROVEMENT			76,655	76,655		-	-
P12570 TOTAL PROJECT COSTS	Sewer Force Main	Complete	76,655	76,655	100%	-	-
FD495.01 WATER & SEWER MASTER PLAN 2017			212,876			-	212,876
FD496.01 WATER & SEWER REGIONAL MASTER PLAN 2017			2,150			-	2,150
P12720 TOTAL PROJECT COSTS	Master Plan/Report	Project Initiation & Planning	215,026	-	0%	-	215,026
Grand Total			256,874,249	154,702,936	60%	44,722,156	57,449,157

The following information pertains to the Stormwater Projects listed on the Consent Order Project Report. Paragraph 18 of the Amended Consent Order (CO) requires that the City pay \$2,116,500 in cash as civil penalties or implement In-Kind projects with a value of at least \$3,167,250 in lieu of making cash payment. This CO mandated that the project be either an environmental enhancement or an environmental restoration project. The City proposed to construct a new stormwater drainage system within the low lying areas of River Oaks Stormwater Analysis (P11868), Edgewood Area Stormwater Improvements (P11842) and the Osceola Canal as part of the Citywide Canal Dredging Plan - Cycle 1 (P12264) to offset the penalties. The proposal included multiple water quality improvements, such as several pollution control measures to treat stormwater runoff before it is discharged in the river, exfiltration trenches, dredging and bank stabilization, and a new wetlands area, in addition to typical stormwater best management practices. The proposal was approved by FDEP on January 20, 2021 and must be constructed by March 2024.



- Legend**
- Water Break (30 Total)
 - Sewer Break (8 Total)
 - Commission District 1
 - Commission District 2
 - Commission District 3
 - Commission District 4
 - Fort Lauderdale Municipal Boundary



Water Distribution Breaks

Date of Break/PBWN	Q-Alert	Address	Type	Size	Cause	PBWN Issued?	Impacted Properties
1/18/2022		Coral Ridge Tower	Water Main	4 inch		Y	100+
1/19/2022	871475	1400 NW 6 St	Water Main	6 inch		Y	18
1/21/2022	872066	701 NE 16 St	Water Main	6 inch		Y	45
1/26/2022		Bayview St & NE 48 St	Water Main			Y	445
1/27/2022	873901	450 E Las Olas Blvd	Water Main			Y	6
2/1/2022	872548/876637	1610 NE 11 Ave	Water Main	6 inch	Emergency Repair	Y	12
2/2/2022	876747/876753	2218 SW 5 St	Water Main	6 inch	Emergency Repair	Y	6
2/3/2022	877887	SE 6th Ave & N Rio Vista Blvd	Water Main	6 inch	Emergency Repair	Y	29
2/8/2022	875380	921 SE 17 St	Water Main	8 inch	Emergency Repair	Y	10
2/16/2022	882758	1660 River Lane	Water Main	10 inch	Emergency Repair	Y	5
2/24/2022	886648	SW 23 St & SW 31 Ave	Water Main	8 inch	Emergency Repair	Y	20
3/16/2022		1016 SE 4 St	Water Main	6 inch	Emergency Repair	Y	11
4/8/2022	908137	Idlewyld Dd & Clematis Pl	Water Main		Vehicle hit hydrant	Y	3
4/20/2022	913672	SW 15 Ave & SW 32 Pl	Water Main		Emergency Repair	Y	13
5/9/2022	921686	NW 26 St & NW 21 Ave	Water Main		Emergency Repair	Y	40
7/18/2022	948606	2820 NE 49th St	Water Main	6 inch	Emergency Repair	N	
7/20/2022	893655	6020 NW 2nd Ave	Water Main	6 inch	Emergency Repair	N	
7/28/2022	953380	258 SW 32nd Ct	Water Main	6 inch	Emergency Repair	N	
8/17/2022	962661	3302 NE 33rd St	Water Main	4 inch		N	0
9/9/2022	970889	N Andrews Ave & NE 8 St	Water Main	6 inch	Leaking Main	N	0
9/13/2022	972167	1561 Riverland Rd	Water Main	8 inch	Crack	N	0
9/16/2022	974059	2315 NE 12th Ct	Water Main	4 inch	Leaking Main	N	0
9/29/2022	979283	2323 NE 12th St	Water Main	6 inch	Leaking Main	N	0
9/16/2022	974944	SW 15 Ave & 20TH St	Water Main	16 inch	Leaking Main	N	0
9/21/2022	975988	2826 W Sunrise Blvd	Water Main	6 inch	Leaking Main	N	0
10/5/2022	982441	1228 NE 3RD AVE	Water Main		Emergency Repair		
10/6/2022	982894	SE 5th St & A1A Intersection	Water Main	6 inch	Emergency Repair		
10/10/2022	779831	833 SW 11th Ct	Water Main	6 inch	Emergency Repair		
10/10/2022		801 Seabreeze Blvd	Water Main	6 inch	Emergency Repair		
10/22/2022	985971	6610 NE 21st Ave	Water Main		Emergency Repair		

Sewer Main Breaks

Date of Break/PBWN	Q-Alert	Address	Type	Size	Cause	Volume (Gal)	SSO Issued?	Impacted Properties
2/16/2022	882575	1765 SE 18 St	Force Main		Gravity Blockage	900	Y	
2/20/2022	884873	NW 10 Ave & W Commercial Blvd	Force Main		Sewer Stoppage	300	Y	
3/5/2022	891700	10 S New River Dr E	Force Main		Sewer Stoppage	100	Y	
5/3/2022	919041	SE 15 Ave & SE 16 St	Force Main	16 inch	Damaged Sewer Main	39000	Y	
5/12/2022	922886	303 NW 1 Ave	Force Main	8 inch	Manhole Overflow	500	Y	
5/13/2022	923367	SW 24 St & SW 15 Ave	Force Main	16 inch	Broken Force Main	4500	Y	
5/22/2022	926923	901 N FT Lauderdale Bch Blvd	Force Main	6 inch	Broken Force Main	200	Y	
6/4/2022	932195	1765 SE 18th St	Force Main		Manhole Overflow	15,700,000	Y	