



CITY OF FORT LAUDERDALE

DRAFT
MEETING MINUTES
CITY OF FORT LAUDERDALE
INFRASTRUCTURE TASK FORCE ADVISORY COMMITTEE
FORT LAUDERDALE EXECUTIVE AIRPORT
RED TAILS CONFERENCE ROOM
6000 NW 21 AVENUE, FORT LAUDERDALE, FLORIDA
MONDAY, JUNE 3, 2024 – 2:00 P.M. TO 4:00 P.M.

January-December 2024

Attendance

Marilyn Mammano, Chair	P	6	0
Peter Partington, Vice Chair	A	3	3
Gerald Angeli	P	6	0
Gregory Barnett	P	3	0
Shane Grabski	A	4	2
James LaBrie	P	6	0
Michael Lambrechts	P	5	1
Marta Reczko	P	5	1
Roosevelt Walters	P	6	0
Ralph Zeltman	P	6	0

As of this date, there are 10 appointed members to the Committee, which means 6 would constitute a quorum.

Staff

Omar Castellon, Assistant Public Works Director – Engineering
Dr. Nancy Gassman, Assistant Public Works Director -- Sustainability
Vicki Beauvais, Senior Administrative Assistant
Jill Prizlee, Chief Engineer
Yvette Matthews, Acting Director, Office of Management and Budget
J. Opperee, Recording Secretary, Prototype, Inc.

Communication to the City Commission

None.

1. Call to Order

i. Roll Call

Chair Mammano called the meeting to order at 2:03 p.m. Roll was called and it was noted a quorum was present.

ii. Approval of Agenda

Motion made by Mr. Walters, seconded by Ms. Reczko, to approve as written. In a voice vote, the **motion** passed unanimously.

iii. Approval of Previous Meeting Minutes – May 6, 2024 and May 20, 2024

Motion made by Mr. Walters, seconded by Mr. Barnett, to approve the May 6 minutes with or without corrections. In a voice vote, the **motion** passed unanimously.

Motion made by Mr. Walters, seconded by Mr. Zeltman, to approve [the May 20, 2024 minutes] as written. In a voice vote, the **motion** passed unanimously.

2. Old Business

i. ITFC Draft Recommendations

Chair Mammano noted that the Committee was scheduled to participate in a joint meeting with the Fort Lauderdale City Commission on Tuesday, June 4, 2024 at 11:30 a.m. She briefly reviewed the process expected for that meeting, encouraging all of the Committee members to participate in discussion with the Commission.

Chair Mammano added that the Committee's recommendations are separate from Staff's presentation on the workshop process and public input. The Committee would not be answering questions about those processes.

Chair Mammano recommended that the Committee take a proactive stance on their recommended principles, including discussion of next steps with the Commissioners. She suggested that the Commission may wish to hire a consultant for purposes of site selection before the November 2024 general election so the next Commission can review their options for a new City Hall.

Mr. Lambrechts pointed out that other City projects have benefited from the hiring of an owner's representative, and proposed that the Commission may wish to strongly consider this option for City Hall. Chair Mammano emphasized the importance of continuing discussions about the new facility and including stakeholders in those discussions as well as providing additional opportunities for public input.

Mr. LaBrie asserted that the Committee should take a strong position with regard to their ongoing participation in the process, indicating that they are willing to play a continuing role.

Mr. Walters asked if the discussion at the joint meeting will address the recommended principles only or would also address the bullet points under those principles. Chair Mammano replied that she felt more information on the principles was needed in order to ensure the Commissioners fully understand what was discussed regarding each principle.

The members also discussed issues likely to be raised by the Commission, including questions about potential funding, site selection, survey results, and the role of artificial intelligence (AI) in a new City Hall facility.

Ms. Reczko noted that there may also be discussion of renting space at City Hall, which the recommendations address under the principle of cost-effectiveness. She emphasized the importance of the sovereignty of local government and ensuring that governmental functions take place in a building over which the City has control. She concluded that she would not be in favor of a P3 for a new City Hall.

Mr. Barnett was also not in favor of a P3 to construct a new City Hall, as this would mean the City cedes some control over the building to another entity. He recommended that considering solicitation of P3 partners be listed as one of the City's options, but emphasized that it should not be the only one.

Chair Mammano reiterated that the Committee wished to continue to be part of the ongoing conversation, which would mean if the City solicited P3 proposals, the Committee could be involved in review of those proposals, as they had in the case of the new water treatment plant. This would allow them to further discuss and focus on whether the City should turn over maintenance of a new City Hall to a private partner or retain control of building maintenance. These details would be worked through in a comprehensive agreement between the City and its partners if the Commission chose to use a P3 to fund the new building.

Chair Mammano advised that the Committee can adopt their draft recommendations as their final report, or they may make edits to the document. It was noted that if edits are made, the Chair would need to provide the City Commissioners with the final document at tomorrow's joint meeting.

Mr. LaBrie's recommended changes included:

- Shorten the introduction and history
- Clarify that documentation of public outreach and City Staff efforts will be provided in separate reports
- Under the principle "Welcoming and Engaging," change "transparent" to "feeling of openness" and remove a reference to architectural recognition and cost-effectiveness
- Under the principle "Accessible and Secure," note that the facility should be near public transportation
- Under the principle "Amenities for Public and Staff," clarify that the public should feel it is a pleasure to be in City Hall
- Replace "engage youth..." with the bullet point referring to space available for public education and civic engagement
- Under the principle "Cost-Effective," add "consider such elements as" before listing bullet points

- Combine principles “Functional and Efficient” and “Resilient and Innovative”
- Begin last paragraph with “The ITFAC recommends that the conversation continue” and include statement that the Committee is willing to participate in the next steps of the process

Mr. Walters also proposed recommending that the conversation continue with input from the public.

Motion made by Mr. Walters, seconded by Mr. Angeli, to make this the final draft. In a voice vote, the **motion** passed unanimously.

3. New Business

None.

4. Public Works Update

i. CIP Financial Report

ii. Water & Sewer Breaks Report w/Mapping

Assistant Public Works Director (Engineering) Omar Castellon reported that a water break occurred on May 20, 2024 when a contractor drilled through a pipe on Andrews Avenue. Emergency repairs were made.

A question was asked regarding the Peele-Dixie Water Treatment Plant. Mr. Castellon replied that a contractor drilled through a pipe coming from the wells, which was repaired after approximately one week.

Mr. Castellon added that the City is installing a new pipe from the new water treatment plant to the Fiveash Water Treatment Plant. The current pipe will remain in place as a redundancy.

5. General Discussion and Comments

i. Committee Members

Mr. Lambrechts addressed the Kinney Tunnel, requesting feedback from the other Committee members on this facility. It was noted that some work may still be in progress on the tunnel. There was consensus from the Committee that its current appearance is unsatisfactory for a number of reasons. It was also clarified that the work on the tunnel was overseen by the Florida Department of Transportation (FDOT) rather than the City. Chair Mammano suggested that members with concerns on this issue contact their City Commissioners.

The Committee also discussed items to be addressed at their August 5, 2024 meeting, with Chair Mammano recalling that members had requested an update on the CityWorks program. She also suggested inviting a representative of FDOT who is involved with bridge inspections to address the Committee at a future meeting.

Mr. LaBrie requested an update on the new water treatment plant at the August meeting.

Mr. Zeltman stated that he would like an update on the City's schedule for addressing vitrified clay pipe, as well as the inflow and infiltration (I&I) contract.

Mr. Lambrechts asked if the knowledge expected to be gained from the CityWorks installation and the information provided about I&I may be useful in identifying possible sources of coliform bacteria. He asked if it might be possible to identify the pipes from which these bacteria are carried into the New River. He concluded that infrastructure which may be compromising the City's waterways and environment should be prioritized.

Chair Mammano expressed concern that the aging septic tanks of some properties may be leaking. Assistant Public Works Director (Sustainability) Dr. Nancy Gassman explained that if fecal coliform bacteria are related to sanitary sewer leakage, these numbers would typically be found in a much higher concentration than what is detected by current monitoring. There have been no unusually high levels that would indicate a sanitary sewer system leak. Data provided by Miami Waterkeeper, which regularly tests the City's water, rarely shows the substantial values of bacteria associated with these leaks.

Dr. Gassman continued that it is a challenge to identify the source of fecal coliform bacteria. While genetic testing can help determine the bacteria's source, it does not provide a way to address the problem.

ii. Public Comments

None.

6. Adjournment – NEXT SCHEDULED MEETING DATE: Monday, August 5, 2024

There being no further business to come before the Committee at this time, the meeting was adjourned at 3:22 p.m.

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



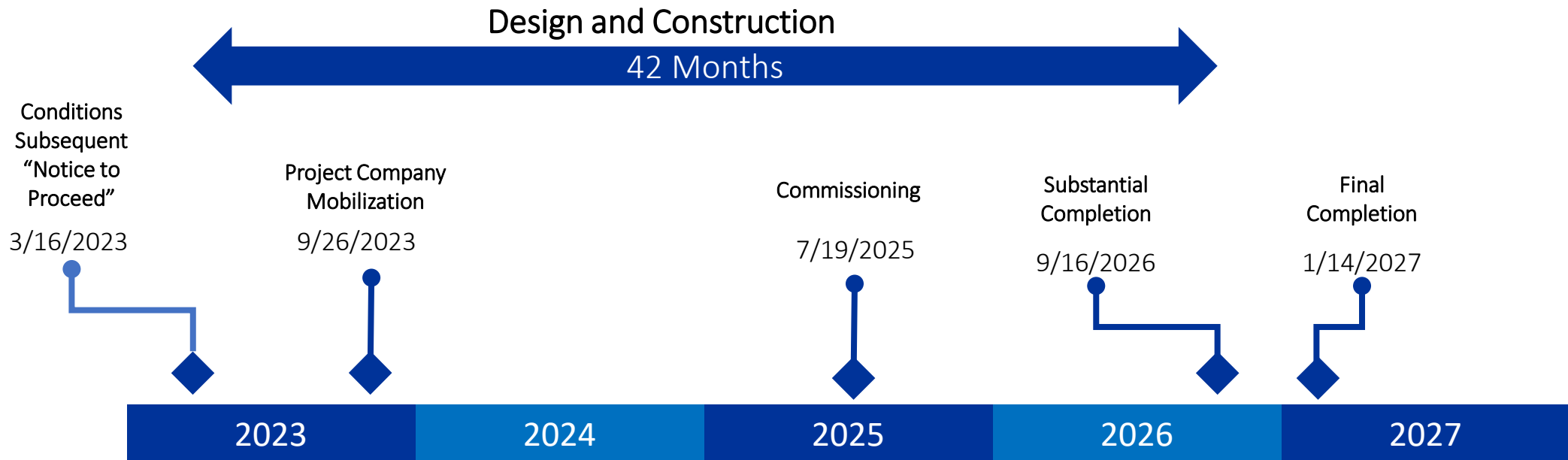
Prospect Lake Clean Water Center

Public Works Department

August 7, 2023



Schedule & Current Activities





City Enabling Works

- Pretreatment and Booster Pumps Works
- Second Disposal Well
- Optimal Corrosion Control Treatment (OCCT) Study





Infrastructure Obligations

- FPL Temporary Power - 9/14/2023
- FPL Permanent Power - 10/5/2024
- Feedstock (raw) Water to Plant -10/5/2024
- Permanent Water Connection to Plant - 8/13/2025
- Wastewater Connection to Plant - 8/13/2025
- Comm. Connections to Exist. City Facilities - 8/13/2025
- Product Water Transmission Main – 8/13/2025

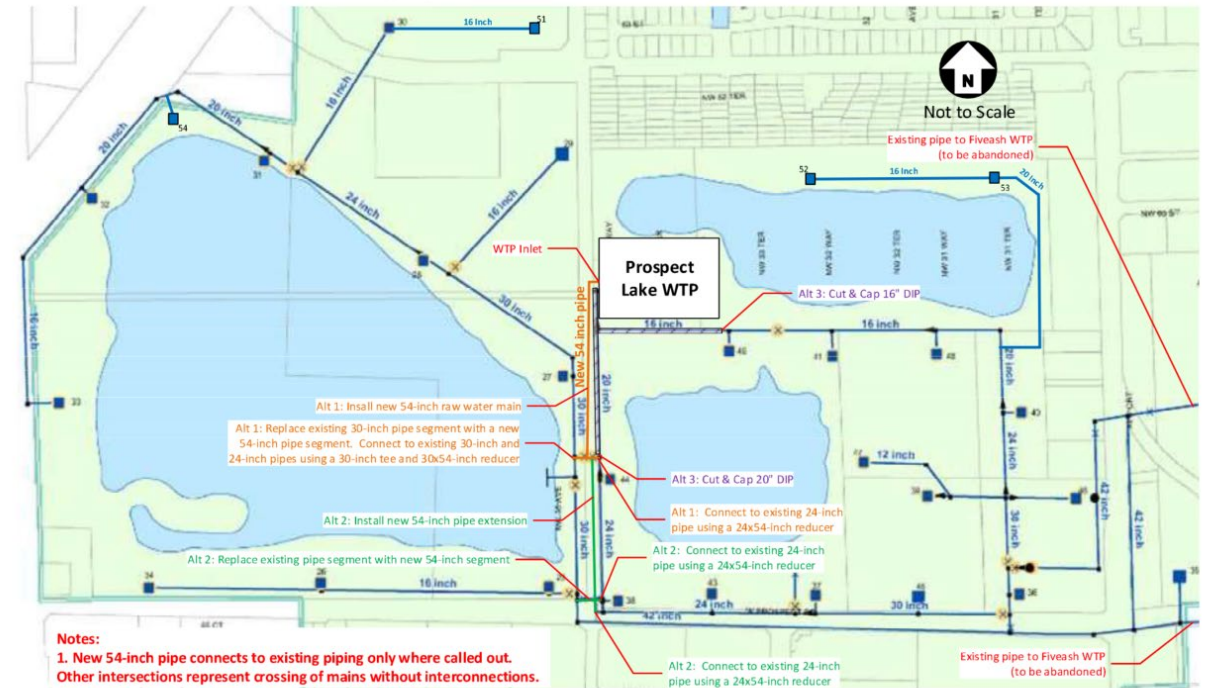
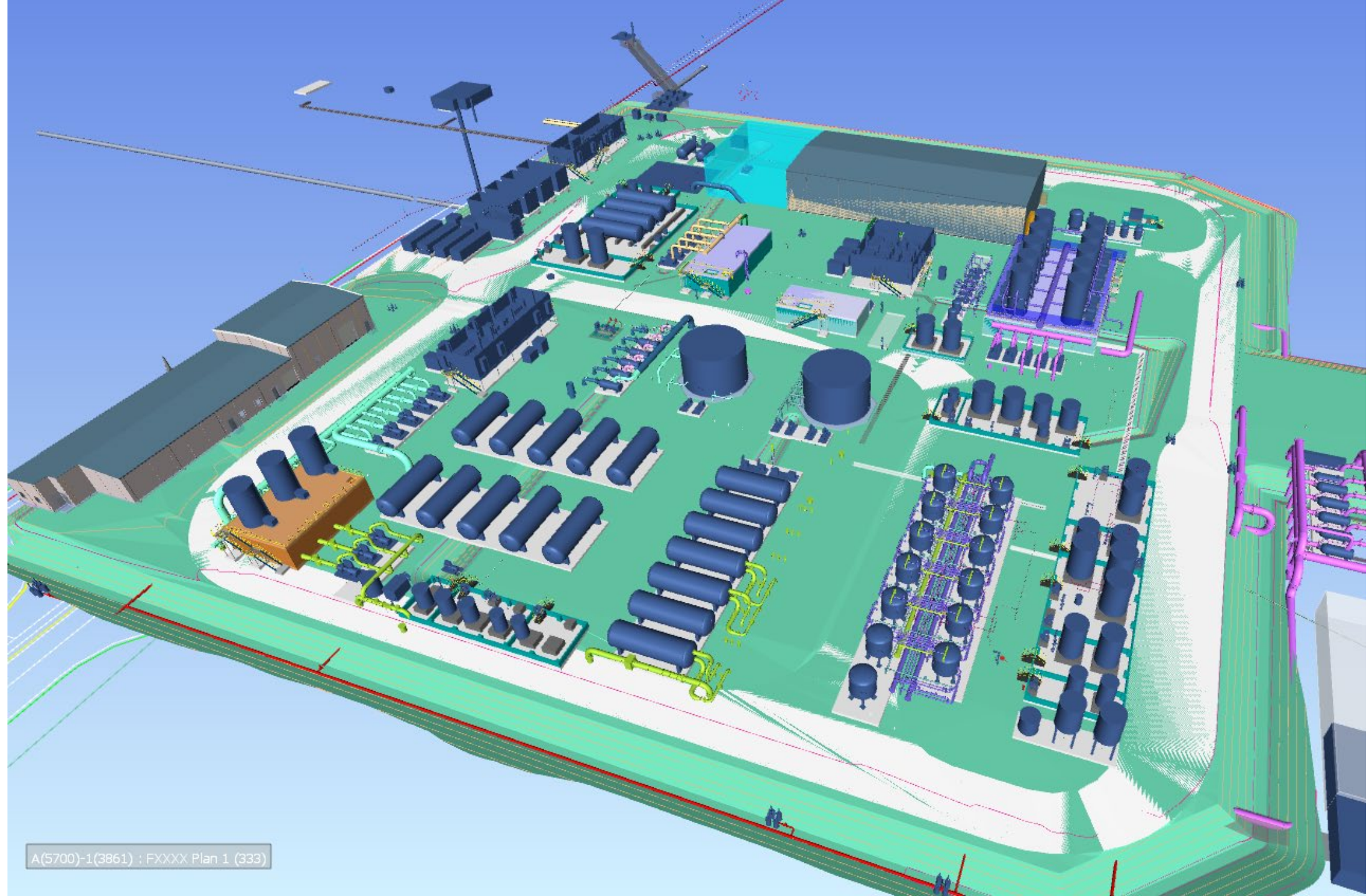


Figure 3. Prospect Wellfield with Alternative Raw Water Main Supplying New Water Treatment Plant



Public Works Update



City-wide Inflow And Infiltration Reduction Program

*Infrastructure Task Force Meeting
August 5, 2024*



AGENDA

1. PROGRESS UPDATE
2. COMMUNITY INVOLVEMENT
3. FINANCIAL OVERVIEW
4. CONCLUSION

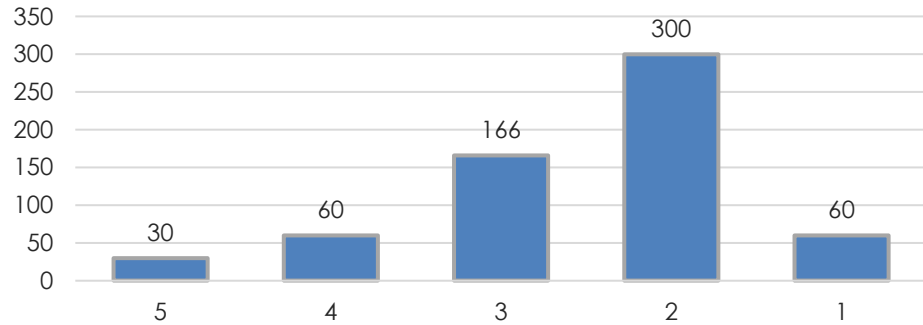


PROGRESS UPDATE ONGOING FIELD WORK

Manhole Inspections

Start Date: March 25, 2024

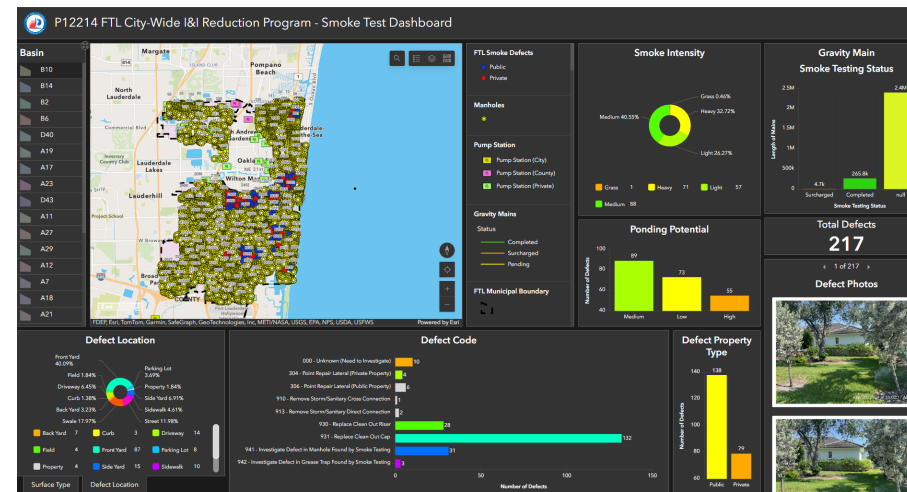
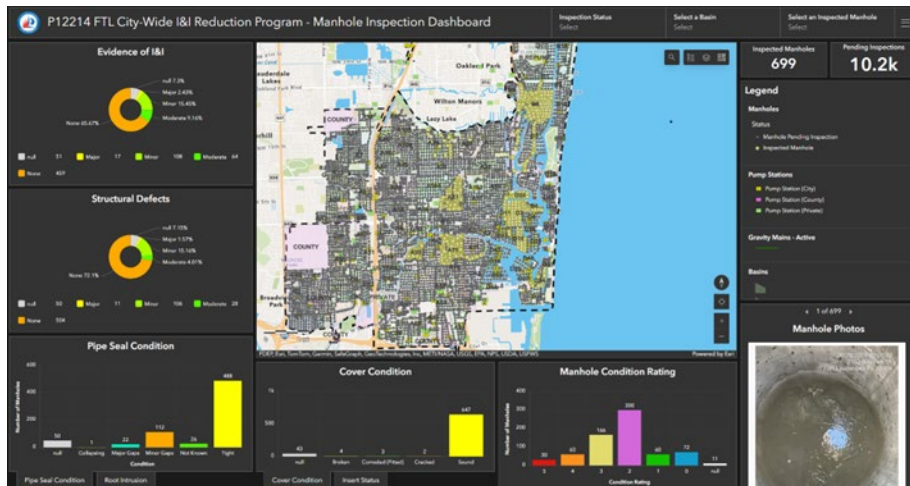
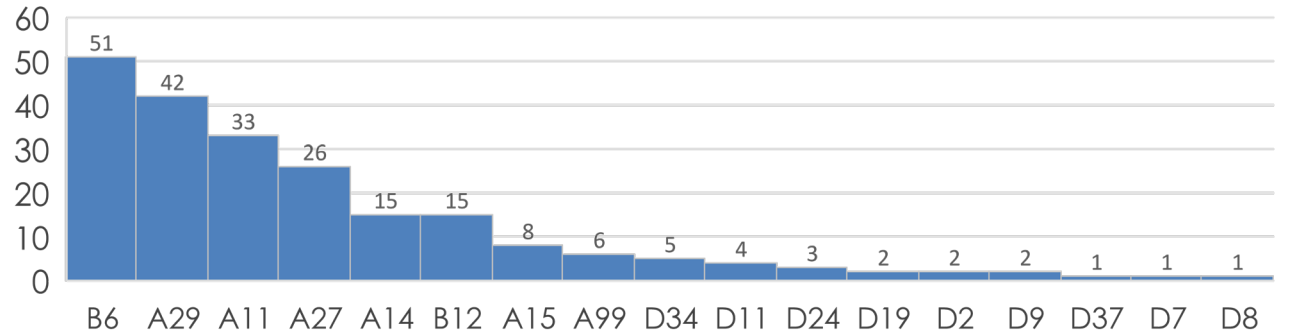
Manhole Condition Grades



Sewer Smoke Testing

Start Date: May 29, 2024

Number of Defects per Basin



Total No. of Manholes Inspected: **699**

Total Gravity Length smoke tested to date: **265,800 LF**

Smoke Test Defects Identified: **217**



PROGRESS UPDATE ONGOING FIELD WORK

Night Flow Isolation

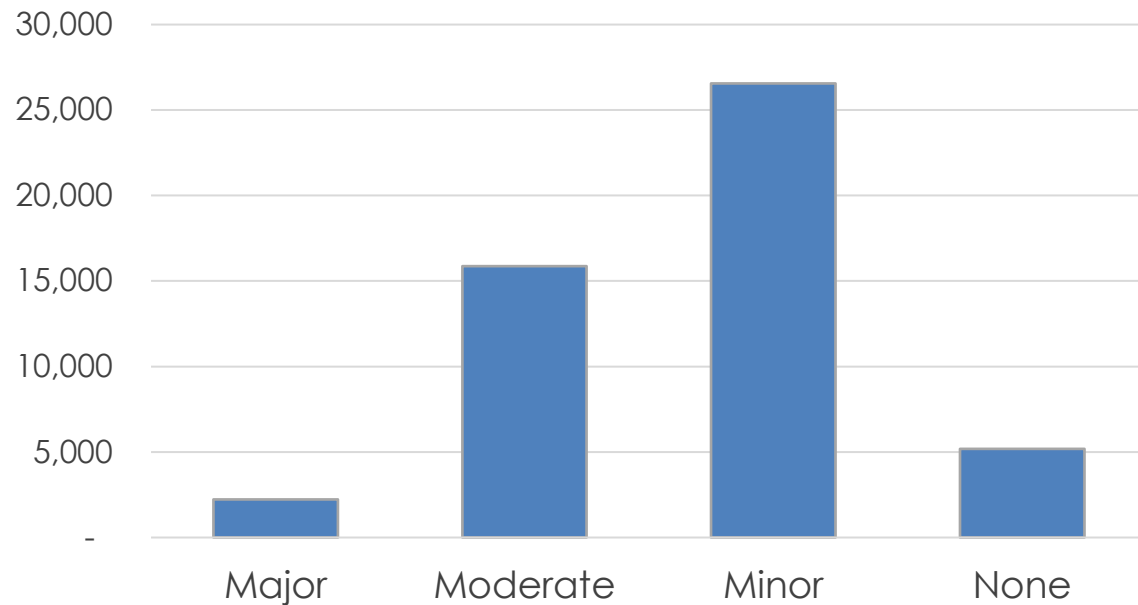
Start Date: July 21, 2024

Total Gravity Length to date: **49,837 LF**

Gravity Mains targeted for CCTV: **20,173 LF**

No. of Basins completed: **11**

Evidence of I/I per Tested Gravity Main Lengths



Night Flow Testing

Start Date: July 9, 2024

Total No. of Basins completed: 13

Basin	Night Flow Average (GPM)	GPDIM	I/I Severity
D20	136.31	37,032	Very High
D19	45.22	12,917	Very High
D7	28.47	8,042	Very High
A11	516.16	10,751	Very High
A7	736.24	6,486	Very High
A99	144.25	10,251	Very High
D8	34.27	7,839	High
D9	36.67	7,693	High
D21	11.24	5,190	High
D11	30.26	5,814	High
D2	34.58	4,670	Moderate
A21	134.71	2,856	Minor
A18	163.37	1,900	Insignificant

*GPM = Gallons per Minute

*GPDIM = Measure of excessive I/I per basin size



COMMUNITY INVOLVEMENT & COMMUNICATION

CITY OF FORT LAUDERDALE
Notice: Upcoming Improvements

INFLOW & INFILTRATION REDUCTION PROGRAM: OVERNIGHT WASTEWATER FLOW ANALYSIS

The City of Fort Lauderdale is working with Ardura Group Inc. to study the flow of wastewater throughout the City's sewer system over the next three years. This flow analysis is part of the City's ongoing efforts to identify portions of the sewer system where stormwater and groundwater are possibly entering the system, which leads to problems such as increased treatment cost and reduced system capacity. The results of this analysis will be used to plan future sewer system improvement projects.

This work will begin on Sunday, July 21, 2024, and is expected to be completed in September 2024. This schedule is subject to change based on inclement weather or other unforeseen circumstances. Inspections will take place Sunday through Thursday evenings between 11 p.m. and 7 a.m. During the time, most neighbors are sleeping, meaning that flows in the system are likely due to infiltration of groundwater or groundwater through defective sewer pipes and structures.

Crews will be accessing sewer lines through sewer manholes. Therefore, no heavy machinery will be on site and minimal noise and lighting impacts are expected.

Approximate Schedule

Sun., July 21 – Mon., July 22 Riviera Isles and Las Olas Isles	Tues., July 23 – Fri., July 26 Sunrise Key	Sun., Aug. 11 – Tues., Aug. 20 Lake Ridge, Pointe Heights, Bal Harbour
Mon., July 22 – Tues., July 23 North Side	Sun., July 28 – Tues., July 30 Tarpun River	Sun., July 28 – Tues., July 30 Harbour and Lauderdale Isles
Tues., July 23 – Wed., July 24 Hendricks Isle	Mon., July 29 – Fri., Aug. 2 Rio Vista	Tues., Aug. 20 – Fri., Aug. 30 South Middle River
Tues., July 23 – Thurs., July 25 Seven Isles	Sun., Aug. 4 – Fri., Aug. 9 Middle River Terrace	Sun., Sept. 1 – Tues., Sept. 3 Las Olas Isles


Traffic Impacts

- One lane in each direction of neighborhood streets may be closed temporarily during work hours.
- Traffic control personnel will direct traffic as needed.
- Access to driveways will be maintained.
- Please follow posted signs and drive with caution in the area.

We apologize in advance for any inconvenience and thank our neighbors for their patience while we complete this important analysis.

To see a map of the areas where right flow isolation is scheduled and learn more about the City's efforts to reduce inflow and infiltration, visit [this link](#).

For more information or questions, contact Inflow and Infiltration Program Hotline: 877-332-4037 or ftlii@ardura.com



CITY OF FORT LAUDERDALE
Notice: Upcoming Improvements

INFLOW & INFILTRATION REDUCTION PROGRAM: SEWER SMOKE TESTING

The City of Fort Lauderdale is working with Ardura Group Inc. to conduct smoke testing throughout Fort Lauderdale over the next three years. This common procedure involves blowing smoke through sewer pipes to locate defects that would allow stormwater and groundwater to enter the sewer system.

The smoke being used is odorless, non-toxic, non-irritating, does not create a fire hazard and will clear within 30 minutes with proper ventilation. Smoke should not enter private properties if they are properly plumbed and vented and if water traps contain water. If smoke enters private property, please ventilate the area, and notify nearby field technicians.

Approximate Testing Schedule

- Sewer Basin A-14 in Lake Ridge, Pointe Heights, Lauderdale Isles & Bal Harbour: Monday, July 8, 2024 – Thursday, July 11, 2024
- Sewer Basin D-7, D-8 and D-9 in Nurni Isles: Friday, July 12, 2024
- Sewer Basin D-20 in Las Olas Isles (Isle of Palm Drive): Friday, July 12, 2024
- Sewer Basin D-1 in Riviera Isles (Flamingo Drive): Friday, July 12, 2024

Smoke testing will take place Monday through Friday between 8 a.m. and 5 p.m. This schedule is subject to change based on inclement weather or other unforeseen circumstances.

Traffic Impacts

- One lane in each direction of neighborhood streets may be closed during work hours. Traffic control personnel will direct traffic as needed.
- Access to driveways will be maintained.
- Please follow posted signs and drive with caution in the area.

We apologize in advance for any inconvenience and thank our neighbors for their patience while we complete this important testing.

To see a map of the areas where smoke testing is scheduled and learn more about sewer smoke testing and the City's efforts to reduce inflow and infiltration, visit [this link](#).

For more information or questions, contact Inflow and Infiltration Program Hotline: 877-332-4037 or ftlii@ardura.com



CITY OF FORT LAUDERDALE

SMOKE TESTING NOTICE

Sewer pipeline smoke testing will be conducted in your neighborhood over the next few days. This testing helps to improve the reliability of the wastewater system by locating sources of leaks and breaks in wastewater lines. The City has contracted with Ardura Group, Inc. to conduct the tests.

The smoke that is being used is manufactured specifically for this testing and is, therefore, NON-TOXIC, NON-STAINING, ODORLESS, WHITE TO GRAY IN COLOR AND CREATES NO FIRE HAZARD.

In preparation for the smoke testing, now is the time to run water for 2 to 3 minutes through all of your fixtures to ensure that all drainage traps are full of water, especially floor drains and seldom used drains.

You may see smoke coming from the vents of the roof of your property, your lawn, or downspouts, which is a normal occurrence when conducting the tests. If smoke enters your building, please ventilate your property and notify the field technicians who are conducting the test.

If smoke is visible within your property, this is an indication that you may have a plumbing issue. The identification and correction of the source of smoke entering your property is urgently advised. The correction of any defects in the pipes and sewer on private property is the responsibility of the property owner.

IMPORTANT! If any individual at your property has respiratory or mobility problems, please notify us at 877-332-4037 as soon as possible prior to the start of testing.

This program will help reduce the inflow and infiltration of stormwater and groundwater into the wastewater system, reducing the risk of wastewater overflows in your neighborhood and avoiding expenses related to the unnecessary treatment of stormwater and groundwater at the City's wastewater treatment facility.

Thank you for your cooperation in our efforts in infrastructure improvements. Learn more about this effort at [ftlii@ardura.com](#) (Questions? Please call the inflow and infiltration hotline at 877-332-4037 or email FTLI@ardura.com.)

CITY OF FORT LAUDERDALE

AVISO DE PRUEBAS CON HUMO

En los próximos días, se llevarán a cabo pruebas con humo en las tuberías del sistema de alcantarillado sanitario de su vecindario. Estas pruebas nos ayudan a mejorar el servicio mediante la detección y reparación de fallas y fugas dentro de dicho sistema. La ciudad de Fort Lauderdale ha contratado a Ardura Group, Inc. para completar las pruebas.

Si humo que se utilizó en fabricarlo específicamente para esta prueba, y por lo tanto, NO ES TÓXICO, NO MANCHA, NO TIENE OLORES, ES DE COLOR BLANCO A GRIS Y NO CREA PELIGRO DE INCENDIO.

En preparación para la prueba de humo, por favor deje correr el agua de sus grifos durante 2 a 3 minutos para asegurar que todos los drenajes están llenos de agua, particularmente aquellos del suelo, o que raramente se usan.

Es posible que usted vea humo salir por las tuberías de ventilación del techo de su propiedad, de su césped o de las alcantarillas pluviales, lo cual es una occurrence normal cuando se realizan las pruebas. Si el humo entra en su casa, ventile su propiedad y notifique a los técnicos de campo que están realizando la prueba.

Si el humo es visible dentro de su propiedad, esto es una indicación de que puede tener un problema de plomería. Se recomienda urgentemente la identificación y corrección de la fuente del humo que entra en su propiedad. La corrección de cualquier defecto en las tuberías y el alcantarillado en propiedad privada es responsabilidad del propietario.

¡IMPORTANTE! Si alguna persona en su propiedad tiene problemas respiratorios o de movilidad, notifíquenos al 877-332-4037 antes de comenzar la prueba.

Este programa ayudará a reducir la entrada y la infiltración de agua de lluvia y agua subterránea en el sistema de aguas residuales, reduciendo el riesgo de desbordamientos de aguas residuales en su vecindario y evitando gastos relacionados con el tratamiento innecesario de aguas pluviales y subterráneas en la planta de tratamiento de aguas residuales de la ciudad.

Le agradecemos su cooperación mientras invertimos en mejoras a la infraestructura. Obtenga más información sobre este esfuerzo en ftlii@ardura.com (¿Preguntas? Por favor, llame a la línea directa de inflow e infiltración al 877-332-4037 o envíe un correo electrónico a FTLI@ardura.com.)

CITY OF FORT LAUDERDALE
 FLORIDA

Beach Conditions Employment Emergency Alerts **CUSTOMER SERVICE**

Neighbors Government Business Visitors

PUBLIC WORKS

- Public Notices
- Engineering Division
- CADD Standards
- Durrs Neighborhood Stormwater Project
- Fortly Lauderdale
- Inflow & Infiltration**
- Master Plans & Reports
- Undergrounding Overhead Utilities
- Sustainability Division
- Utilities Division

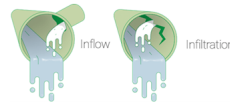
Government » Departments 1-2 » Public Works » Engineering Division »

Inflow & Infiltration

Font Size: [Share & Bookmark](#) [Feedback](#) [Print](#)

What is inflow & infiltration?

Inflow and infiltration (I&I) are terms for the ways that stormwater runoff and groundwater (clear water) make their way into sanitary sewer pipes. With inflow, stormwater rapidly flows into sewers via roof drain downspouts, yard drains, storm-sewer connections and faulty manhole covers. Inflow is greatest during major storm events and can more than triple wastewater volumes. Infiltration occurs when groundwater water seeps into sanitary sewer pipes through cracks, leaky pipe joints and/or deteriorated manholes.



Why I&I Matters

Excessive I&I in the sewer system creates multiple problems:

- **Expensive Treatment:** Once stormwater and groundwater mix with wastewater, all the water is treated. This is expensive and impacts the regional system. Reducing excessive I&I in the system saves millions of dollars.
- **Reduced System Capacity:** Additional water that enters the wastewater system through I&I flows within fixed-capacity sewer pipes. The additional flow consumes capacity that was built to accommodate wastewater flows from existing properties and new developments. During major rain events, the additional flow can exceed the available sewer system capacity, causing overflow issues.
- **Water Quality:** Exceeding the capacity of the sewer system can result in wastewater overflows and spills into nearby waterways, affecting the water quality.

Notices for SSES Activities

Door Hangers

Website

Others: Project Signs, Social Media videos, Inflow & Infiltration Hotline and email for resident inquiries

Inflow & Infiltration Program Hotline
877-332-4037 or ftlii@ardura.com



FINANCIAL OVERVIEW

- Budget Amendment Approved February 6, 2024

PROJECT NUMBER	COST CENTER NAME	CHARACTER CODE/ ACCOUNT NAME	TOTAL AMOUNT
P12214	Infiltration and Inflow Program	Capital Outlay / Construction	\$23,315,728

- Individual Project Funding for Priority 1 Basins

PROJECT NAME	CHARACTER CODE/ ACCOUNT NAME	AVAILABLE
Current Combined Total of Priority 1 Basins	Capital Outlay / Construction	\$9,421,893.00

- Department's I&I Plan for Proposed CIP FY2025-2029*

PROJECT NUMBER	DESCRIPTION	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
P12214	I&I Program	\$5,099,723	\$15,774,862	\$14,900,217	\$15,163,903	\$15,222,072



CONCLUSION & KEY TAKEAWAYS

Currently performing ongoing evaluation of sewer system conditions

Regular KPI monitoring to track progress

Targeting areas with the highest I/I levels

Implementing additional quick-win projects for immediate impact

A continued commitment to reducing I/I is crucial for sustaining the long-term health and efficiency of our sewer system



THANK YOU!

Questions?





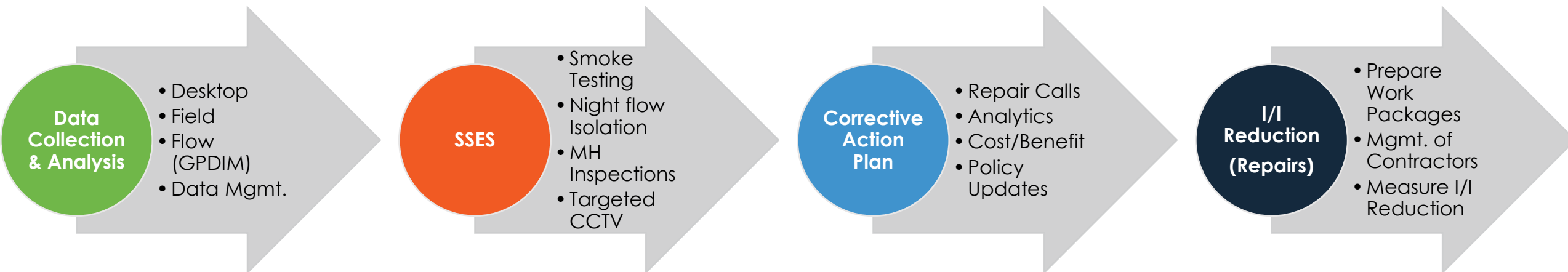
PROGRAM OVERVIEW

Program Goals:

- Reduce non-sewer water entering the City's collection system, otherwise known as infiltration & inflow (I/I)
- Effectively and efficiently reduce the loading of the G.T. Lohmeyer Wastewater Treatment Plant by reducing Inflow and Infiltration in the Sanitary Sewer Collection System
- Compliance with FDEP
- Ensure cost-effective management of available funds for I/I reduction efforts

GTL Plant Capacity (MGD)	Estimated System-wide I/I (MGD)	Target I/I Reduction (MGD)
55.7	20 - 30	6 - 9

*MGD = Million Gallons per Day





PROGRAM OVERVIEW

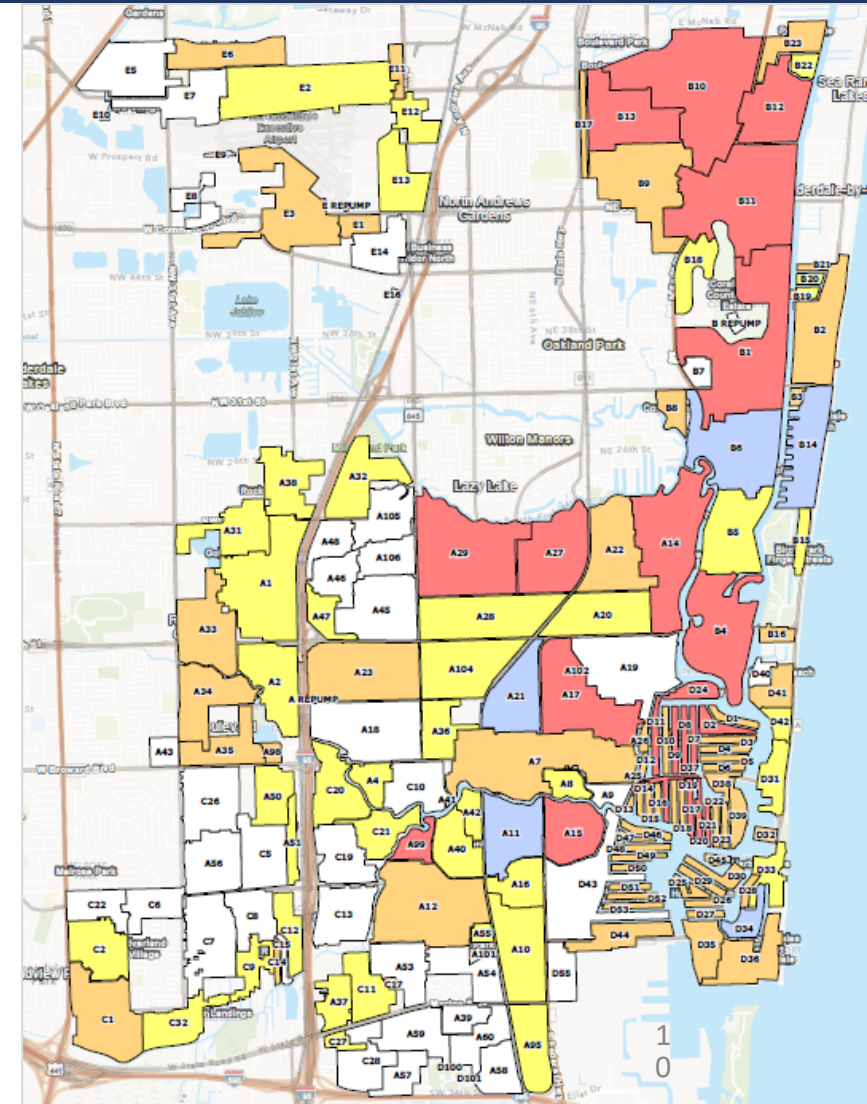


Infiltration



Inflow

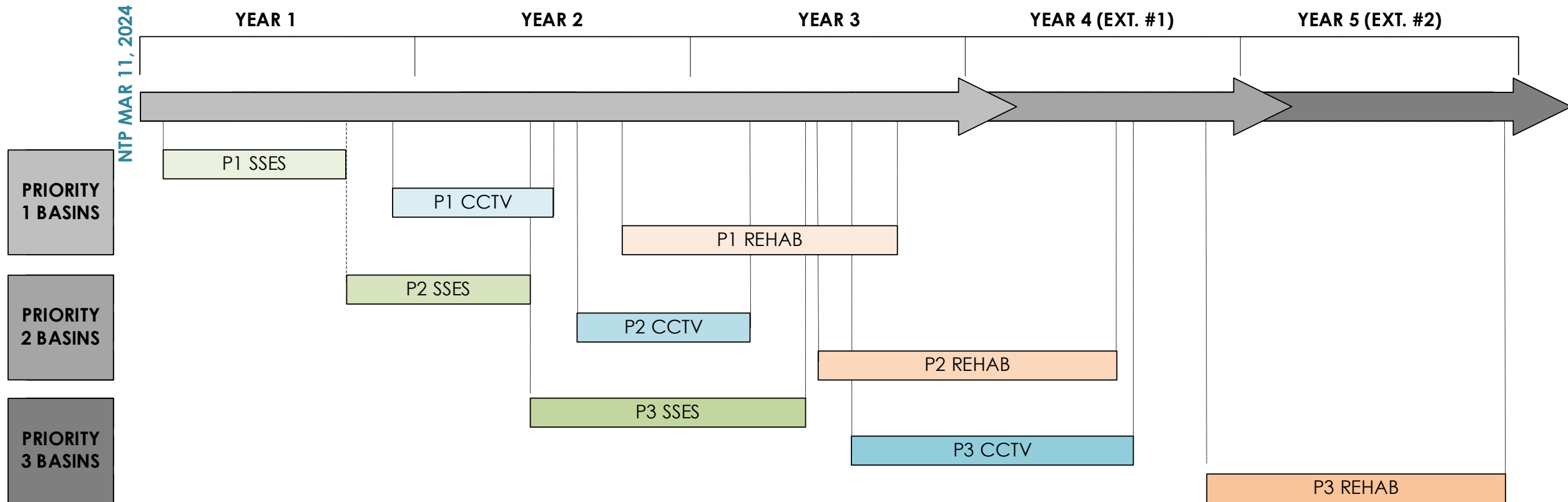
	No. of Basins	Total Length of Gravity Mains (LF)	Total No. of Manholes	Estimated Length of Sewer Laterals (LF)	Estimated I/I Removal (MGD)
Ongoing I/I Basins (in progress)	5	139,337	597	51,325	0.5
Priority 1	22	557,320	1,958	269,875	1.8
Priority 2	62	596,957	2,409	283,425	2.4
Priority 3	41	624,192	2,380	265,650	1.3
					6.0





PROGRAM OVERVIEW

Program Timeline:





PROGRAM PRIORITIZATION & PHASING STRATEGY

Severity of I/I

Potential for
Quick Wins

Impact of
Public Health &
Safety

Regulatory
Compliance

Cost Benefit
Analysis

Condition
Assessment

Historical Data
& Trends

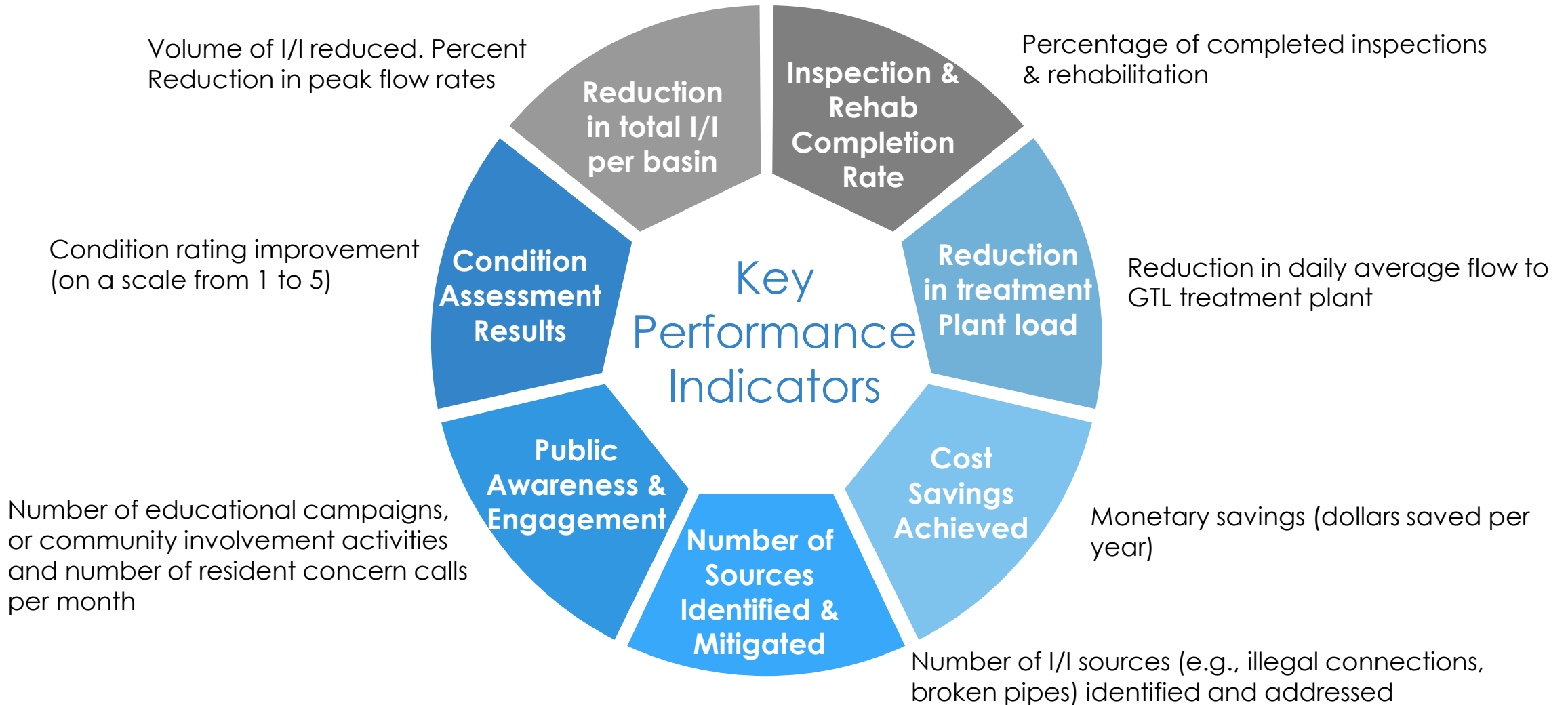
Critical
Infrastructure
Protection

Funding
Availability

Synergy with
other Projects



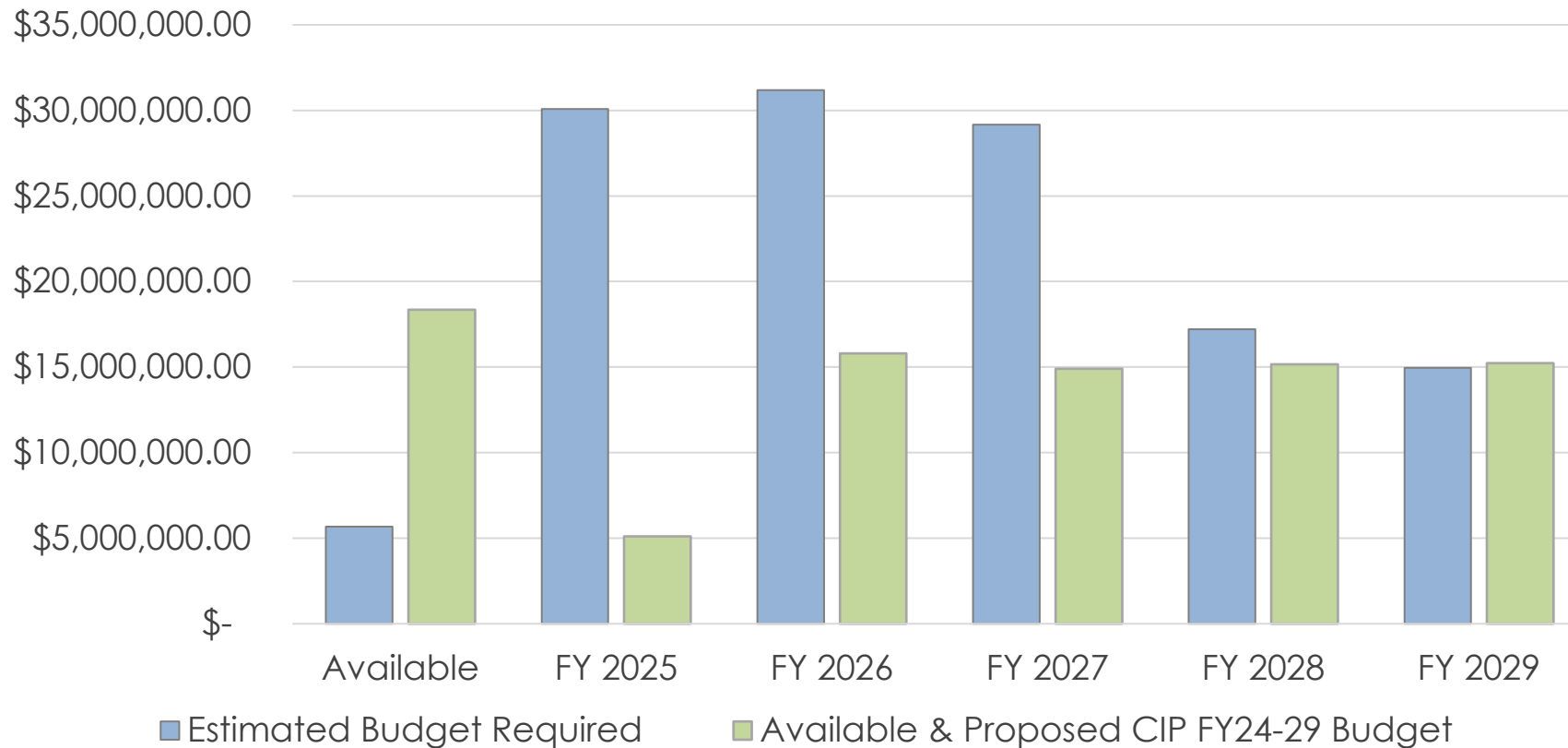
KEY PERFORMANCE INDICATORS (KPI'S)





FINANCIAL OVERVIEW

Budget Comparison
Estimated Cost vs Budget



- Estimated Budget includes Program Management, SSES, CCTV and Rehabilitation /Repairs for 130 basins throughout the City
- I/I Reduction Target: 6 - 9 MGD
- Approximate Return on Investment: 300% over 10 years

**Water & Sewer Bond Expenditures Summary
as of 07/25/2024**

Bond Funded Projects by Category	Budget	Actuals	% Spent to Date	Commitments	Encumbrances	Remaining Balance
Finance	23,595,311	22,096,055	94%	-	698,510	800,746
Fiveash Upgrades	24,194,845	10,766,712	45%	(658,000)	4,389,463	9,439,841
GTL Upgrades	15,527,725	1,073,643	7%	1	3,877,163	10,576,919
I&I	40,619,275	15,201,550	37%	181,123	120,827	25,115,775
Master Plan/Report	2,109,625	1,492,823	71%	-	430,444	186,357
Peele Dixie Upgrades	163,133	97,125	60%	-	-	66,008
Sewer Basin	1,821,149	1,383,387	76%	103,775	29	333,959
Sewer Force main	251,982,028	95,235,451	38%	5,356,000	76,967,796	74,422,781
Watermain	37,353,901	20,293,397	54%	-	760,489	16,300,015
Grand Total	397,366,992	167,640,143	42%	4,982,899	87,244,721	137,242,402

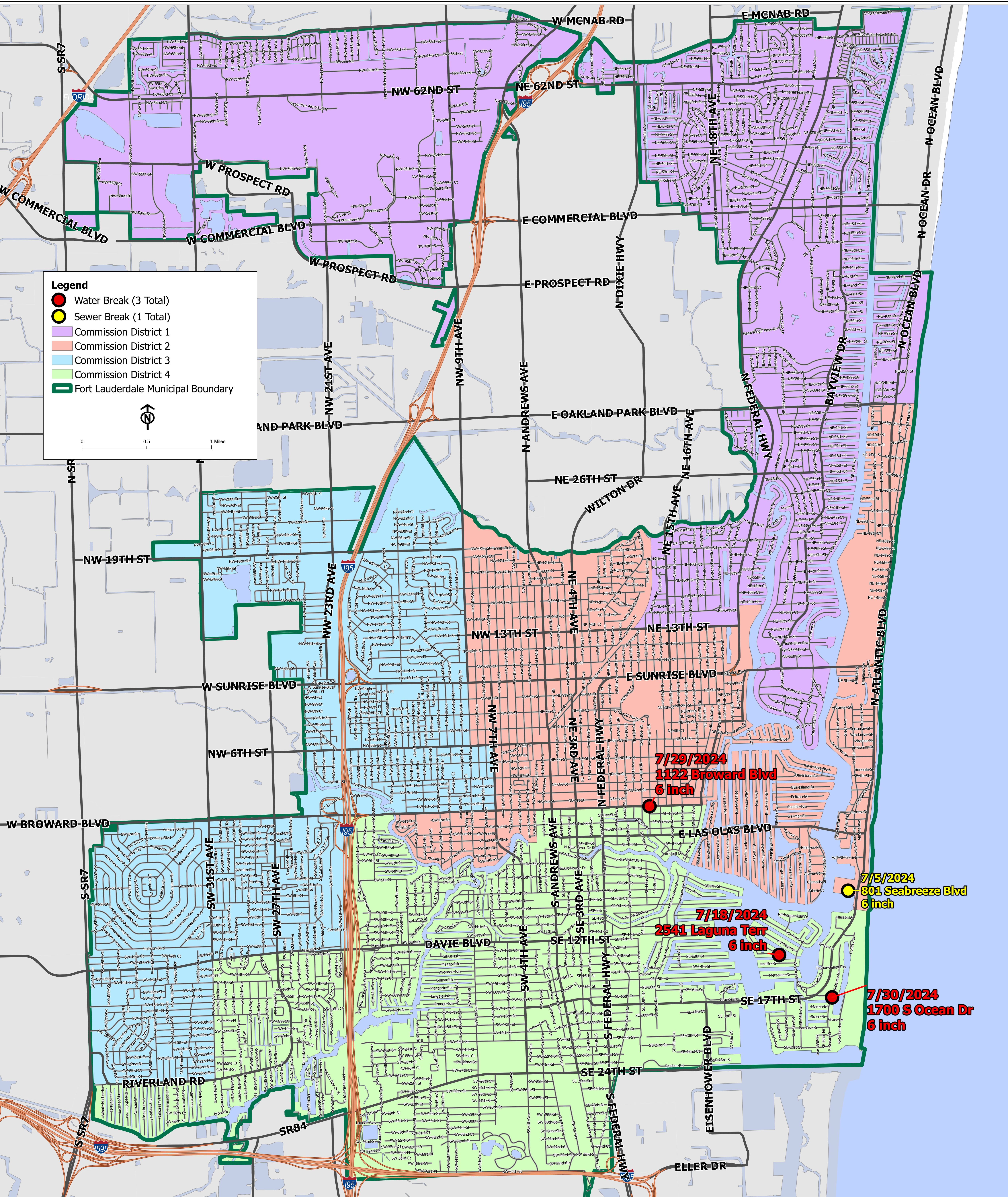
Index Code / Project Title	Category	Project Status	Budget	Actuals	% Spent to Date	Commitments	Encumbrances	Remaining Balance
FD495.01 WATER & SEWER MASTER PLAN 2017	Finance	Implementation	21,611,457	20,199,820	93%	0	698,510	713,127
FD496.01 WATER & SEWER REGIONAL MASTER PLAN 2017	Finance	Implementation	1,983,854	1,896,235	96%	0	0	87,619
P10814.495 CENTRAL NEW RIVER W/MAIN RIVER CROSSING	Watermain	Construction	1,364,926	1,127,736	83%	0	151,875	85,314
P10850.495 VICTORIA PARK A NORTH-SMALL WATERMANS	Watermain	Warranty	4,435,773	4,434,668	100%	0	0	1,105
P11080.495 PORT CONDO SMALL WATER MAIN IMPROVEMENTS	Watermain	Close-Out	932,320	915,442	98%	0	0	16,878
P11465.495 17TH ST CAUSEWAY - LARGE WATER MAIN REPLACEMENT	Watermain	Design	5,205,708	6,760	0%	0	0	5,198,948
P11563.495 VICTORIA PARK SEWER BASIN A-19 REHAB	I&I	Design	5,832,153	5,783,483	99%	53,558	6	-4,895
P11566.495 RIO VISTA SEWER BASIN D-43 REHAB	I&I	Design	4,268,936	4,268,921	100%	0	14	1
P11589.495 FIVEASH WTP DISINFECTION IMPROVEMENTS	Fiveash Upgrades	Construction	15,915,533	2,741,155	17%	-658,000	4,358,763	9,473,616
P11887.495 NW SECOND AVE TANK RESTORATION	Fiveash Upgrades	Construction	40,000	40,000	100%	0	0	0
P11901.495 VICTORIA PK STH SM WATERMANS IMPROVEMNT	Watermain	Warranty	5,149,658	5,142,772	100%	0	0	6,886
P11991.495 DOWNTOWN SEWER BASIN PS A-7 REHABILITATION	I&I	Design	2,000,000	298,587	15%	127,565	0	1,573,848
P12049.495 FLAGLER HEIGHTS SWR BASIN A-21 LATERALS	I&I	Construction	1,318,983	967,096	73%	0	120,794	231,093
P12055.495 BASIN A-18 SANITARY SWR COLL SYSTM REHAB	I&I	Design	3,883,475	3,883,462	100%	0	13	0
P12133.495 PUMP STN A-13 REDIRECTION E OF FEDERAL	Sewer Force main	Complete	478,014	478,014	100%	0	0	0
P12180.495 CROISSANT PARK SMALL WATER MAINS	Watermain	Complete	2,822,718	2,822,718	100%	0	0	0
P12184.495 DAVIE BLVD 18" WM ABAN I-95 TO SW 9 AVE	Watermain	Hold	297,692	297,692	100%	0	0	0
P12202.495 LIFT STATN D-11 FLOW ANALYSIS & REDESIGN	Sewer Basin	Complete	1,224,358	1,224,358	100%	0	0	0
P12214.495 INFILTRATION AND INFLOW PROGRAM	I&I	Master Plan & Report	23,315,728	0	0%	0	0	23,315,728
P12319.495 EMERG REPAIR 30" FM - REPUMP TO GTL WWTP	Sewer Force main	Complete	2,697,299	2,697,299	100%	0	0	0
P12352.495 S MIDDLE RIVER FORCE MAIN RIVER CROSSING	Sewer Force main	Finance	609,000	609,000	100%	0	0	0
P12367.495 ASSET MANAGEMENT & CMOM PROGRAMS	Master Plan/Report	Project Initiation Planning	0	0	-	0	0	0
P12367.496 ASSET MANAGEMENT & CMOM PROGRAMS	Master Plan/Report	Project Initiation Planning	0	0	-	0	0	0
P12368.495 SEWER CAPACITY ANLY FOR GRAVITY & FM	Master Plan/Report	Project Initiation Planning	0	0	-	0	0	0
P12368.496 SEWER CAPACITY ANLY FOR GRAVITY & FM	Master Plan/Report	Project Initiation Planning	0	0	-	0	0	0
P12375.495 PROG MGMT OF CONSENT ORDER PROJECTS	Master Plan/Report	Project Initiation Planning	1,462,500	1,031,951	71%	0	428,254	2,295
P12375.496 PROG MGMT OF CONSENT ORDER PROJECTS	Master Plan/Report	Project Initiation Planning	115,000	112,579	98%	0	2,190	230
P12383.495 NE 25TH AVE FORCE MAIN REPLACEMENT	Sewer Force main	Design	12,889,764	1,652,355	13%	0	4,954,342	6,283,067
P12383.496 NE 25TH AVE FORCE MAIN REPLACEMENT	Sewer Force main	Design	5,642,266	1,760,350	31%	0	3,875,244	6,672
P12384.496 NE 38TH ST 42" FM & NE 19TH AV 24" FM	Sewer Force main	Project Initiation Planning	31,189,144	5,903,885	19%	0	24,637,880	647,379
P12385.496 SE 10TH AV 48" FM REPL & 36" BYPASS	Sewer Force main	Cancelled	18,326	18,326	100%	0	0	0
P12386.496 54" FM RPL SE 9TH/10TH AV & NEW PARALLEL	Sewer Force main	Cancelled	6,072	6,072	100%	0	0	0
P12387.496 EFFLUENT MAIN REHABILITATION	Sewer Force main	Design	49,274,618	3,972,688	8%	0	43,059,943	2,241,987
P12388.495 NE 13TH ST 24" FORCE MAIN REPLACEMENT	Sewer Force main	Warranty	3,313,090	3,025,556	91%	0	0	287,534
P12389.495 18" FM RPL ACROSS NEW RVR FRM 9TH/ BIRCH	Sewer Force main	Complete	2,112,550	2,105,749	100%	0	0	6,801
P12390.495 16" FM ALONG LAS OLAS BLVD PHASE 2	Sewer Force main	Complete	2,410,943	2,410,943	100%	0	0	0
P12391.495 BERMUDA RIVIERA SML WTRMN IMPROVEMENTS	Watermain	Complete	4,424,433	4,424,433	100%	0	0	0
P12393.495 FIVEASH ELEC SYSTM REPLACEMENT (2015-20)	Fiveash Upgrades	Design	256,828	37,521	15%	0	0	219,307

Index Code / Project Title	Category	Project Status	Budget	Actuals	% Spent to Date	Commitments	Encumbrances	Remaining Balance
P12395.495 PEELE DIXIE ELECTRICAL STUDIES	Peele Dixie Upgrades	Master Plan & Report	63,133	63,133	100%	0	0	0
P12396.495 PEELE DIXIE SURGE PROTECTION UPGRADES	Peele Dixie Upgrades	Construction	100,000	33,992	34%	0	0	66,008
P12399.495 FIVEASH WTP PCCP REPLACEMENT	Fiveash Upgrades	Complete	33,511	30,379	91%	0	0	3,132
P12400.495 PROSPECT WELLFIELD ELC STUDIES & TESTING	Master Plan/Report	Project Initiation Planning	185,000	1,168	1%	0	0	183,832
P12402.495 PEELE DIXIE WELLFIELD ELC STUD & TESTING	Master Plan/Report	Complete	47,670	47,670	100%	0	0	0
P12404.495 EXCAVATE & DISPOSE OF DRY LIME SLUDGE	Fiveash Upgrades	Warranty	4,228,973	4,228,973	100%	0	0	0
P12406.496 REDUNDANT FORCE MAIN FROM B-REPUMP	Sewer Force main	Cancelled	10,377	10,377	100%	0	0	0
P12407.495 SUBACQUEOUS FM CROSSING REINSTATEMENT	Sewer Force main	Cancelled	0	0	-	0	0	0
P12410.495 PUMP STATION C-1 REPLACEMENT	Sewer Force main	Project Initiation Planning	620,000	47,166	8%	0	0	572,834
P12412.495 PUMP STATIONS A-16 UPGRADE	Sewer Force main	Construction	3,000,000	3,053,660	102%	0	135	-53,795
P12413.495 FM FROM PUMP STN D-35 TO D-36 UPSIZE	Sewer Force main	Complete	517,445	517,445	100%	0	0	0
P12414.495 GRAVITY PIPE IMPV TO DWNTWN COL SYSTM	Sewer Force main	Hold	3,335,370	193,227	6%	0	0	3,142,143
P12415.495 PUMP STATION A-7 UPGRADE	Sewer Force main	Close-Out	2,396,575	2,396,575	100%	0	0	0
P12418.495 WTR & W/WTR D & C SYSTEM MAPPING	Master Plan/Report	Project Initiation Planning	0	0	-	0	0	0
P12419.495 FORCE MAIN ASSESSMENT	Master Plan/Report	Complete	0	0	-	0	0	0
P12419.496 FORCE MAIN ASSESSMENT	Master Plan/Report	Complete	0	0	-	0	0	0
P12456.495 SEWER BASIN D-40 REHAB	Sewer Basin	Design	169,237	65,433	39%	103,775	29	0
P12462.495 CORAL RIDGE SMALL WATERMAIN IMPROVEMENTS	Watermain	Hold	4,936,912	0	0%	0	0	4,936,912
P12463.495 CORAL SHORES SML WATERMAIN IMPROVEMENTS	Watermain	Warranty	1,118,998	1,118,998	100%	0	0	0
P12485.495 FIVEASH WTP FILTERS REHABILITATION	Fiveash Upgrades	Construction	3,720,000	3,726,205	100%	0	30,701	-36,906
P12528.496 GTL CHLORINE FLASH MIX REMODEL	GTL Upgrades	Construction	1,527,725	616,051	40%	0	911,492	183
P12529.496 EFFLUENT PMP STNBY GENERATOR & ADMIN BLD	GTL Upgrades	Design	14,000,000	457,592	3%	1	2,965,672	10,576,735
P12566.496 REDUNDANT SEWER FM NORTH TO GTL WWTP	Sewer Force main	Complete	25,225,638	25,203,118	100%	0	0	22,520
P12567.496 REDUNDANT SEWER FM SOUTH TO GTL WWTP	Sewer Force main	Close-Out	33,722,015	33,722,015	100%	0	0	0
P12569.495 NE 5TH STREET FORCE MAIN IMPROVEMENT	Sewer Force main	Complete	1,928,910	1,928,910	100%	0	0	0
P12570.495 36TH STREET FORCE MAIN IMPROVEMENT	Watermain	Complete	0	0	-	0	0	0
P12605.495 NEW PUMPING STATION FLAGLER VILLAGE A-24	Sewer Force main	Construction	681,244	676,965	99%	0	9,003	-4,724
P12608.495 TRIPLEX PUMPING STATION FLAGLER VILLAGE A-24	Sewer Force main	Design	13,441,549	214,249	2%	5,356,000	51,943	7,819,358
P12618.495 DOLPHIN ISLES B-14 SEWER BASIN REHAB	Sewer Basin	Project Initiation Planning	427,555	93,596	22%	0	0	333,959
P12619.495 BAYVIEW DR 16" FM TO PUMP STATION B-14	Sewer Force main	Design	2,530,000	95,579	4%	0	81,528	2,352,892
P12620.495 LAS OLAS MARINA PUMP STATION D-31	Sewer Force main	Construction	2,500,000	2,202,221	88%	0	297,779	0
P12628.495 INTERLOCAL AGREEMENT WITH POMPANO BEACH	Master Plan/Report	Project Initiation Planning	299,455	299,455	100%	0	0	0
P12731.495 GRAVITY SWR RPR BAYVIEW FRM 36 TO 40 ST	Sewer Force main	Warranty	309,875	309,875	100%	0	0	0
P12799.496 REHABILITATION/REPLACEMENT OF 48 TO 54-INCH FORCE MAIN	Sewer Force main	Bidding	51,115,872	17,758	0%	0	0	51,098,114
P12803.495 POINSETTIA DR SMALL WATERMAIN IMPROVEMENTS	Watermain	Project Initiation Planning	186,313	0	0%	0	186,313	0
P12827.495 SMALL WATER MAIN REPLACEMENT - SW 31ST AVENUE	Watermain	Project Initiation Planning	3,858,449	0	0%	0	422,301	3,436,148
P12831.495 PUMP STATION A-7 REDUNDANT FORCEMAIN	Watermain	Project Initiation Planning	2,620,000	2,177	0%	0	0	2,617,823
Totals			397,360,920	167,671,592	42%	4,982,899	87,244,721	137,461,708

The commitment column is a new field in the City's Financial system and is used for the be bid purchase orders that are necessary for our consultants and construction contracts as well as Purchase Orders that are currently in process of being executed

FY 2024 Water & Sewer Expansion Impact Fees
July 25, 2024

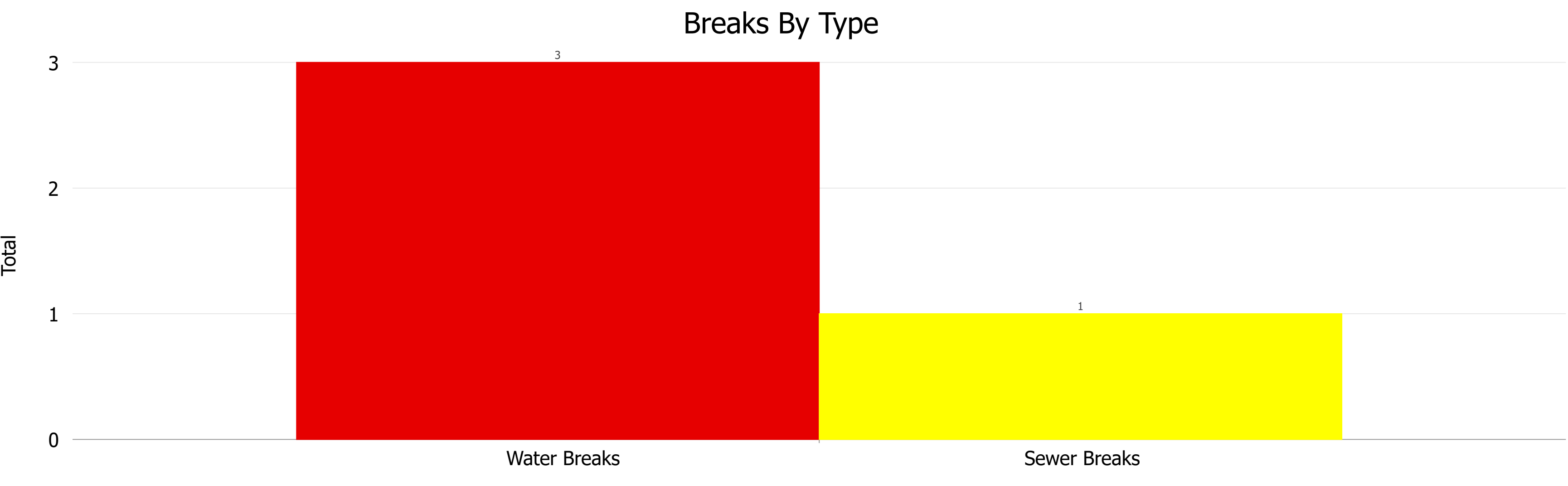
FY 2024 (Revenue (Posted as of 07.25.2024))	Fiscal Month 1 (Oct. 2023)	Fiscal Month 2 (Nov. 2023)	Fiscal Month 3 (Dec. 2023)	Fiscal Month 4 (Jan. 2024)	Fiscal Month 5 (Feb. 2024)	Fiscal Month 6 (Mar. 2024)	Fiscal Month 7 (Apr. 2024)	Fiscal Month 8 (May 2024)	Fiscal Month 9 (June 2024)	Fiscal Month 10 (July 2024)	Fiscal Month 11 (August 2023)	Fiscal Month 12 (September 2024)	Year-to-Date Total
FD452.01 WATER EXPANSION/ IMPACT FEE CONSTRUCTION	111,246	60,180	40,608	28,305	56,404	133,625	164,743	69,768	968,868	37,504	-	-	1,671,251
324-210 (B251) W&S IMPACT FEES - RESIDENTIAL	13,839	9,885	9,885	20,759	33,609	91,931	16,805	31,632	401,390	9,885			639,619
324-220 (B252) W&S IMPACT FEES - COMMERCIAL	97,407	50,295	30,723	7,546	22,795	41,695	147,939	38,136	567,478	27,619			1,031,632
FD453.01 SEWER EXPANSION/ IMPACT FEE CONSTRUCTION	115,547	57,471	38,780	27,031	381,211	129,498	157,331	66,628	926,568	35,815	-	-	1,935,877
324-210 (B251) W&S IMPACT FEES - RESIDENTIAL	13,216	9,440	9,440	19,824	32,096	89,680	16,048	30,208	384,636	9,440			614,028
324-220 (B252) W&S IMPACT FEES - COMMERCIAL	102,331	48,031	29,340	7,207	349,115	39,818	141,283	36,420	541,932	26,375			1,321,849
324-220 (N963) IMPACT FEES - SEWER	-	-	-	-	-	-	-	-	-	-			-
TOTAL	226,793	117,651	79,387.10	55,335	437,614	263,123	322,074	136,396	1,895,436	73,319	-	-	3,607,128



Legend

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

0 0.5 1 Miles



Water Distribution Breaks

Date of Break/PBWN	Q-Alert	Address	Type	Size	Material	Cause	PBWN Issued?	Impacted Properties
7/18/2024	16970311	2541 Laguna Terr	Water Main	6 inch	CIP	EMERGENCY REPAIR		
7/29/2024	1712506	1122 Broward Blvd	Water Main	6 inch	CIP	EMERGENCY REPAIR		
7/30/2024	116603	1700 S Ocean Dr	Water Main	6 inch	CIP	EMERGENCY REPAIR		

No Sewer Main Breaks

Date of Break/PBWN	Q-Alert	Address	Type	Size	Cause	Volume (Gal)	SSO Issued?	Impacted Properties
7/5/2024	16982123	801 Seabreeze Blvd	Force Main	6 inch	FORCE MAIN	3000	Yes	