

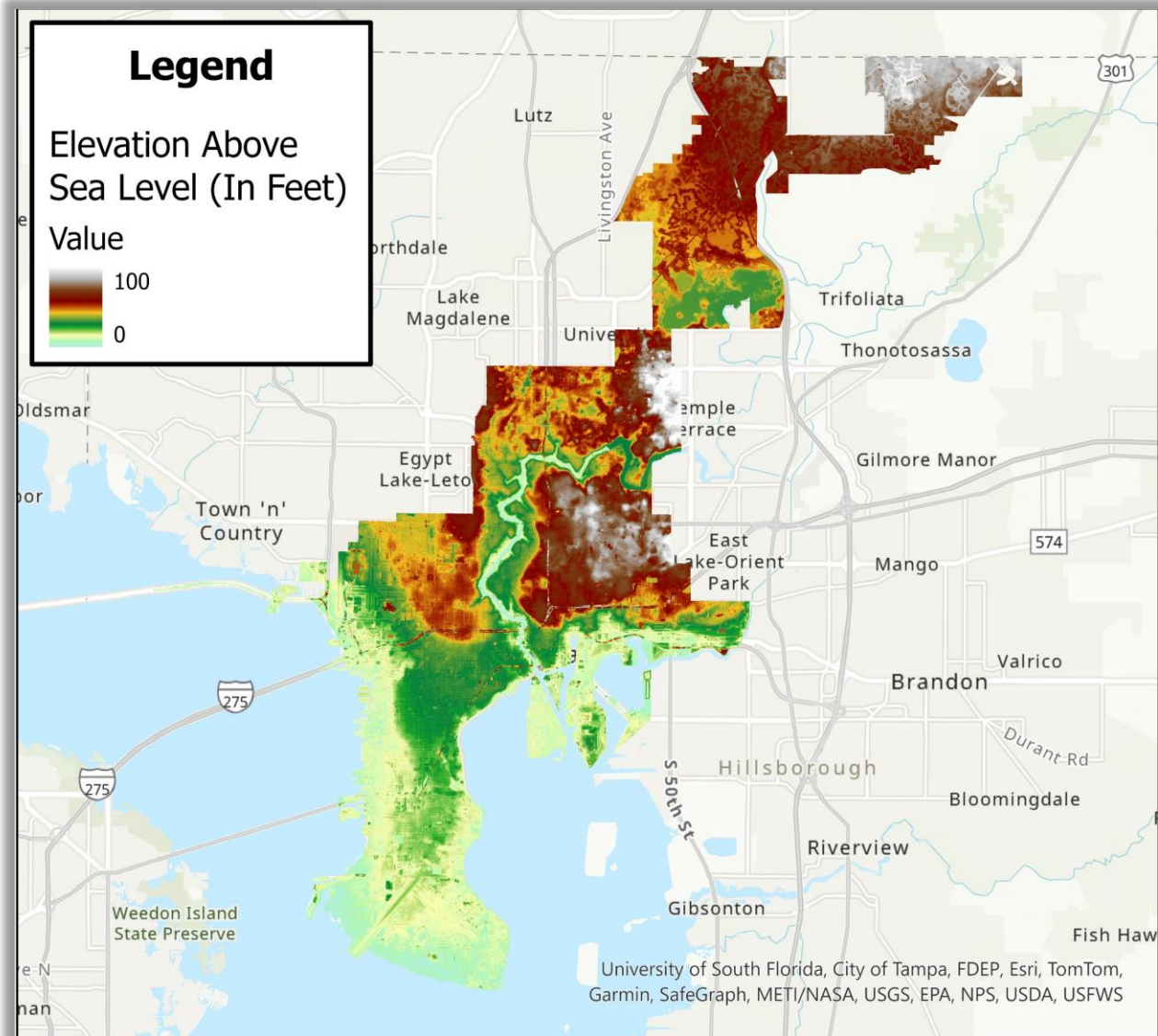
WELCOME

FLOOD RESILIENCE
COMMUNITY MEETING



Our Challenges: Topography

- Tampa is a low-lying, coastal city
- Storm surge flooding **will always** be an issue, especially along the Peninsula.
- The City is made up of 46 basins (bowls) across the city.
- Our goal is to **reduce** street flooding from rain in these basins through our pipes, ponds and stormwater pumps.
- We can improve...we **CANNOT** prevent.



Our Focus: Maintenance & Improvement 2025 at a Glance:



- **Pipes:**
Maintained **226,577** linear feet
Removed **237.72** tons of debris
Repaired **176** cave-ins
Maintained **2,980** structures



- **Ditches:**
Maintained **18,835** linear feet
Removed **2,096** tons of debris



- **Ponds:**
Removed **18+** tons of debris
262 herbicide treatments
Repaired **4,119** feet of fence

Our Focus: Maintenance & Improvement 2025 at a Glance:

- **Street Sweeping:**
Swept **11,026** curb miles
Removed **2,566** tons of debris
- **Miscellaneous Activities:**
54 washouts repaired
35 headwalls repaired
102 structures repaired
TV inspected **10,219** feet of pipe
Fixed **800** feet of curb
- **Pump Stations:**
Preventative maintenance performed
on **13** stormwater pump stations.



How We're Improving Readiness

We're taking **additional** proactive steps this year.



BEFORE



AFTER

Beefed Up Maintenance

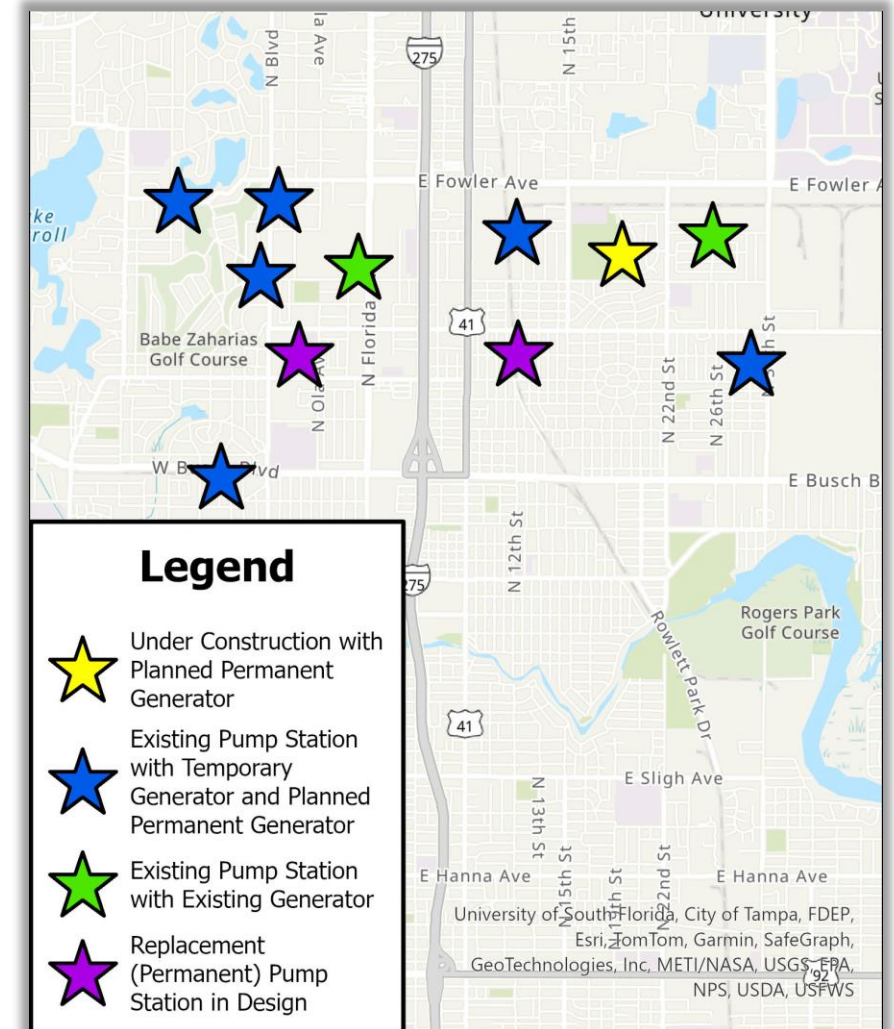
- In-house crews are working **six-days-a-week** on maintenance
- Additional manpower and resources called in through contractors like FloTech and Kimmins.

How We're Improving Readiness

We're taking **additional** proactive steps this year.

Generators

- We're installing temporary back-up generators at pump stations that need them **(6 shown, 8 total)**.
- We're buying permanent back-up generators which will be operational within two to three years and active-performance monitoring protocols in place.
- **\$11m** in funding is already in place for permanent backup generators.



How We're Improving Readiness

We're taking **additional** proactive steps this year.

Transfer Power

- New this year, **we will manually and proactively switch over to generator power before a storm.**



Rapid Response Team

- We're establishing a **pump station response** team tasked with arriving immediately after a storm to ensure all pumps are functioning, refueled, and in continuous operation.

How We're Improving Readiness

We're taking **additional** proactive steps this year.



Micro Projects

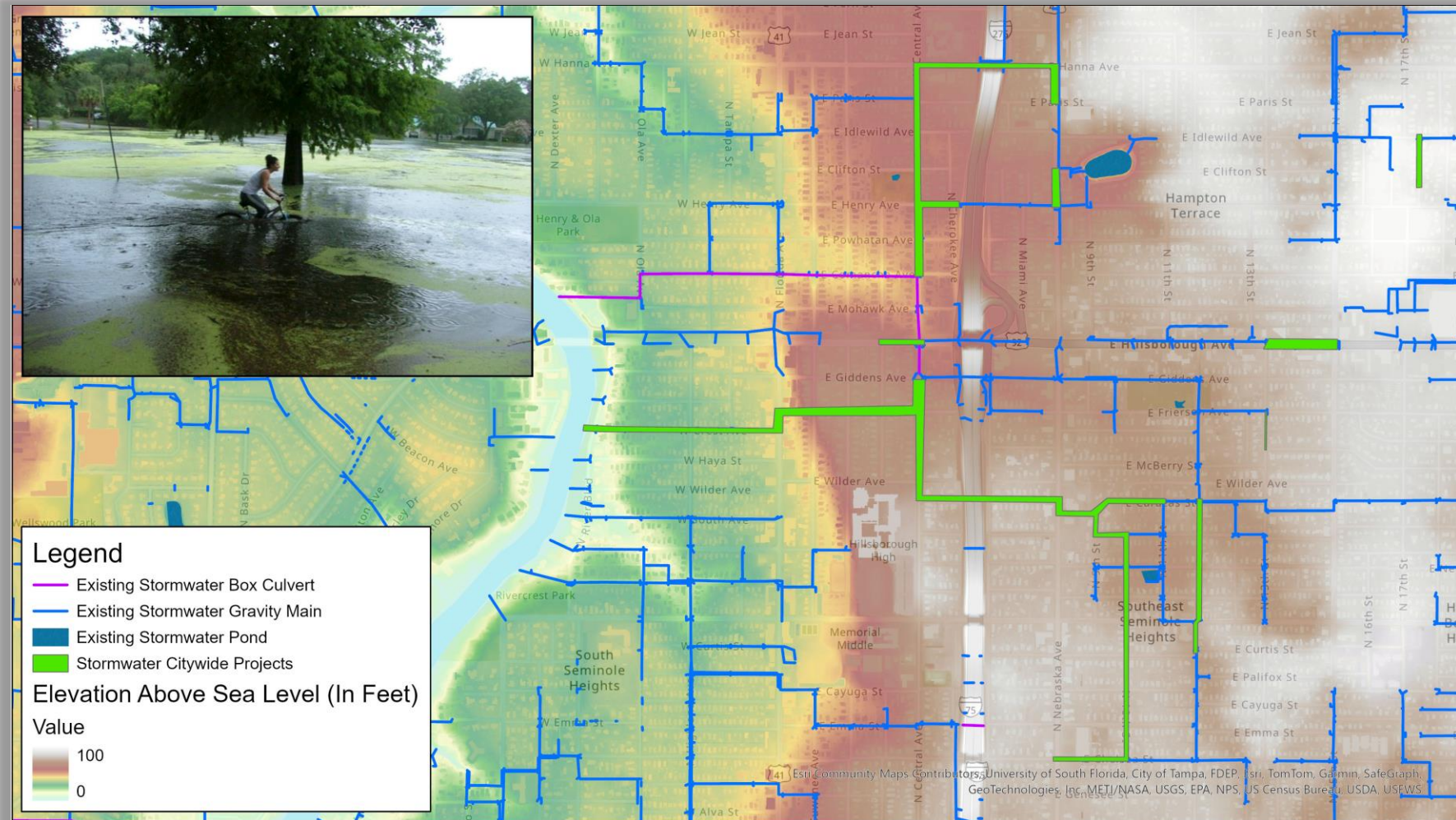
- We're working on several smaller but effective stormwater upgrades in places like Palma Ceia Pines and Parkland Estates aimed at improving stormwater flow.
- Improvements included: resurfacing, widening inlets, adding stormwater grates, additional piping, and more.

Success Stories

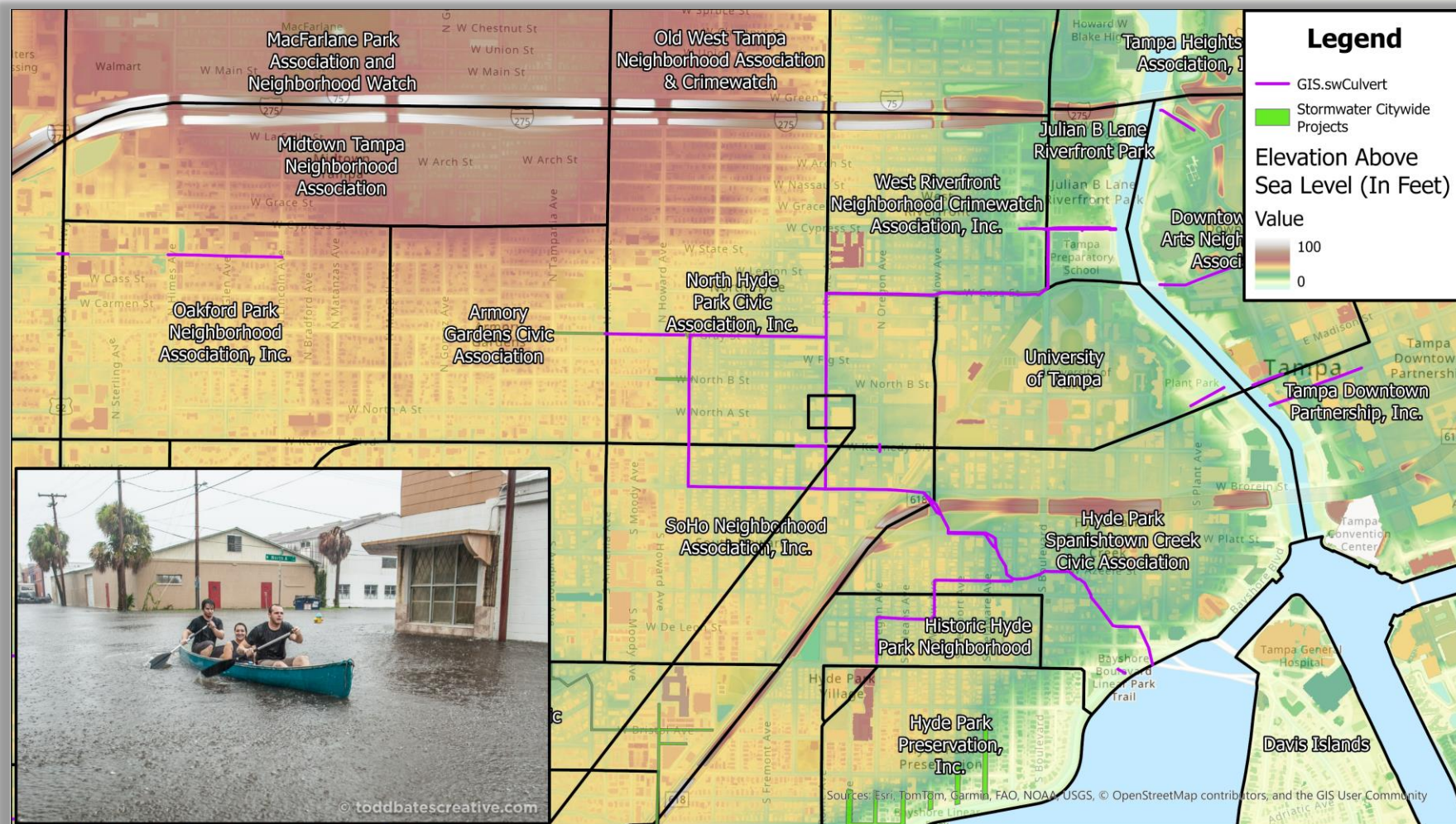


Formerly “Lake Henderson”
(Henderson / Dale Mabry)

Success Stories

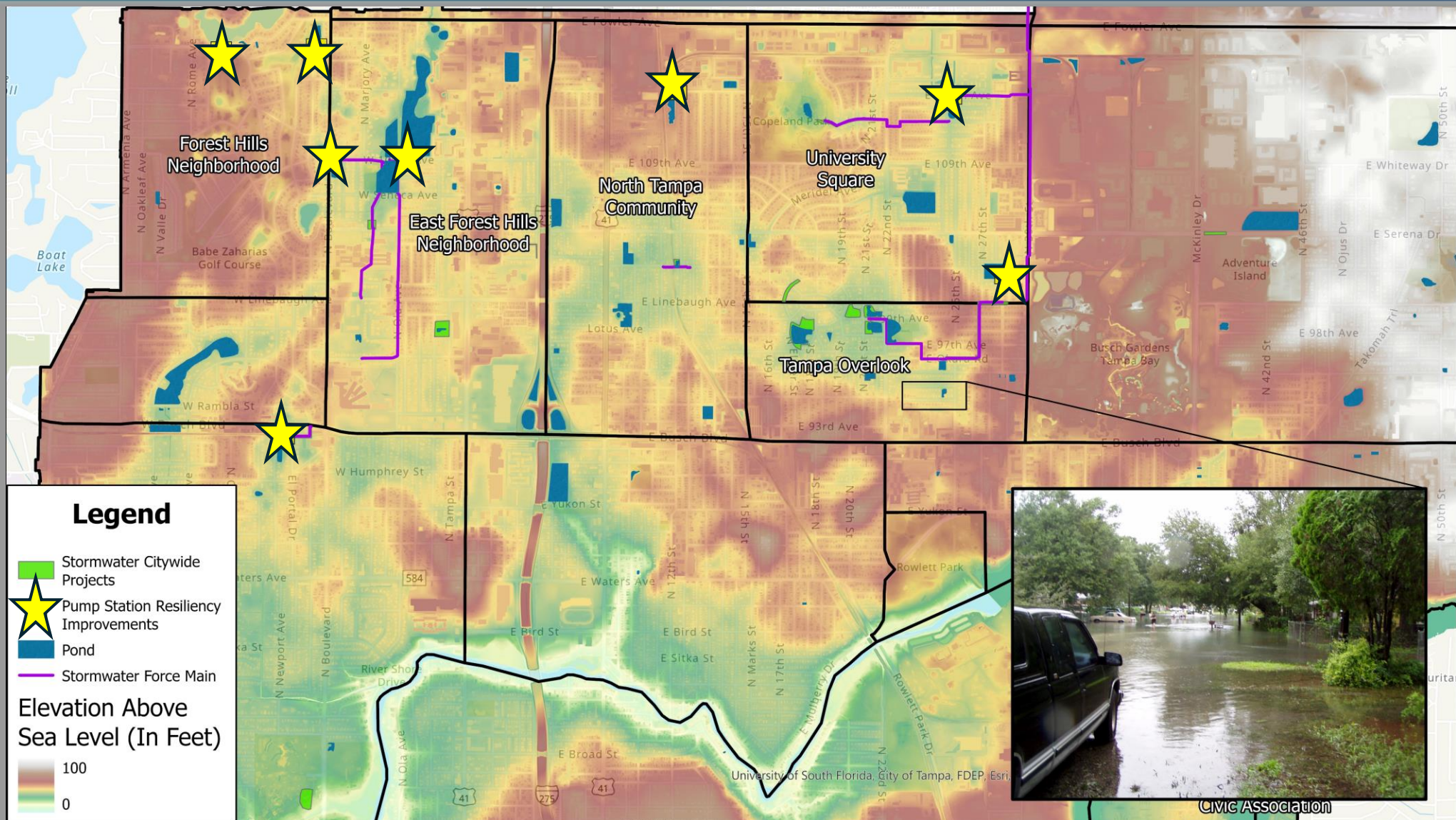


Success Stories



Cypress Street Outfall

Zoom In: N.Tampa CB / Forest Hills



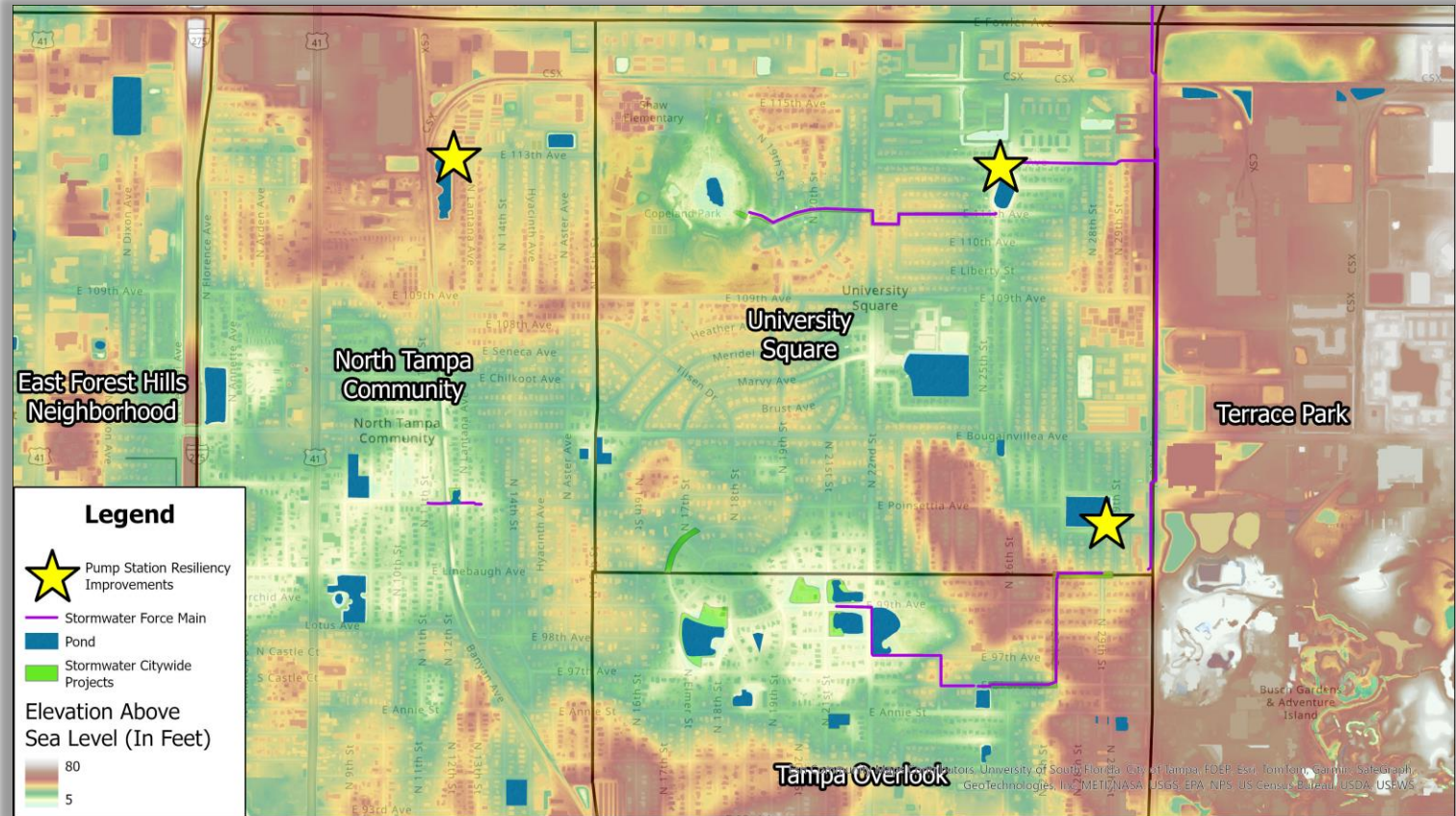
Zoom In: North Tampa Closed Basin

Stormwater Infrastructure:

- Stormwater ponds
- Three pump stations
- Force mains
- *Back-up generators on stand-by*

Challenges:

- Topography: low, bowl-like
- Lack of outfalls
- Impacted by flood water outside of City boundaries.



Out of Our Control: Weather Intensity

- **ALL** stormwater systems have limits and are **NOT** designed to “flood-proof” neighborhoods from big, intense rainstorms or Hurricanes. 🌧️ 🌧️ 🌧️
- **2025 Tampa Vulnerability Assessment:** “In the coming decades, Tampa will experience the combined effects of gradual sea-level rise, extreme rainfall, and storm surge.”
- Much of our system is **older**, and in some cases **inadequate**.
- New infrastructure projects are always limited to available space and funding.

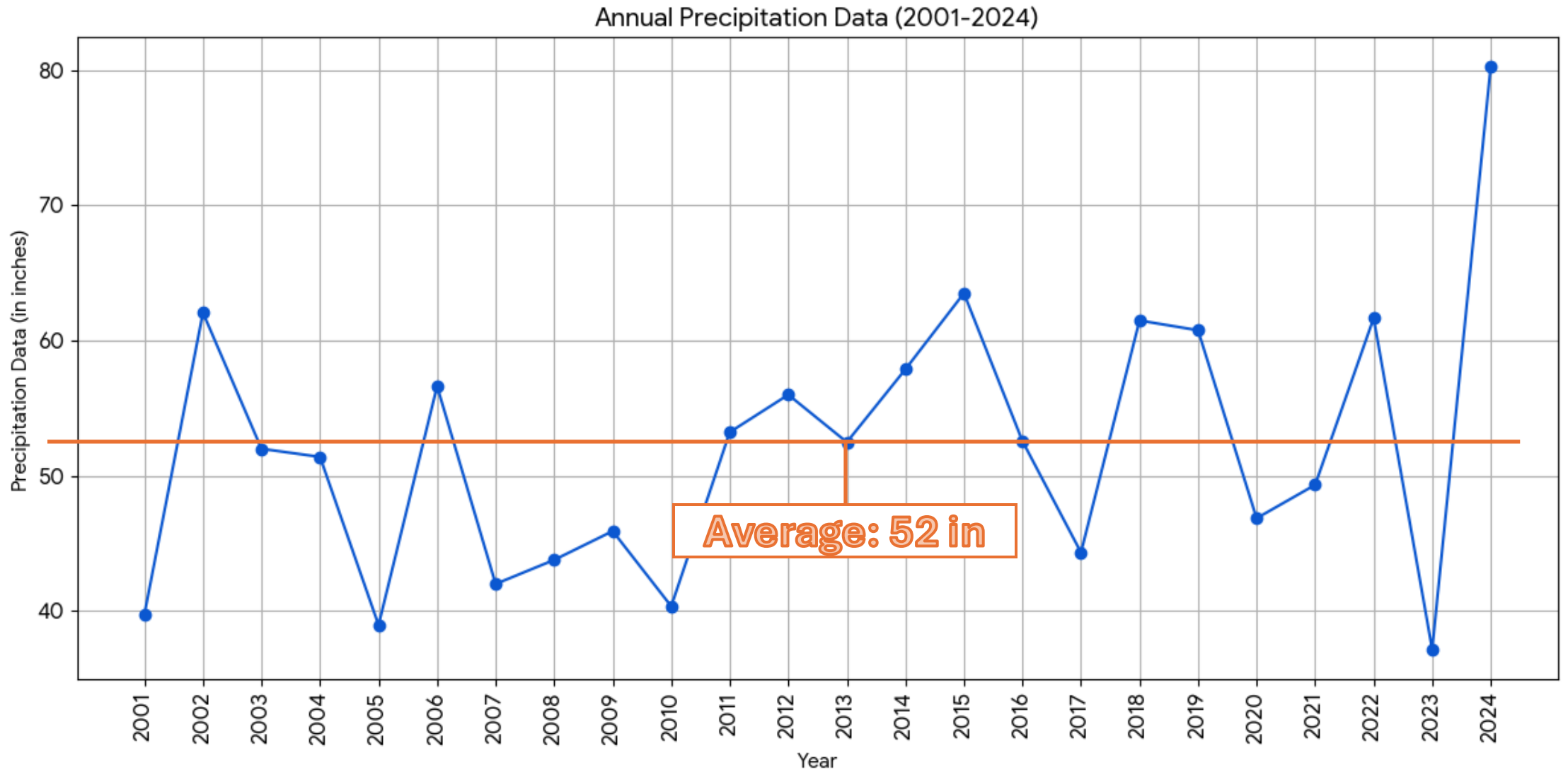


Out of Our Control: Weather Intensity

- **Generally**, our stormwater system is constructed to industry standards meant to reduce flooding from *typical* summer storms.
- Example: 2-in. of rain in 30 min. Typically, **SHOULD NOT** cause flooding. (5-year storm)
- Rainfall totals to the right of the yellow likely **WILL** cause flooding.
- Example: 2.35-in. of rain in 20 min. (200-year storm occurred 6/2)

	OK			Potential for Flooding			
ARI (years):	1	2	5	10	25	100	200
5-min:	0.549	0.614	0.717	0.799	0.905	1.05	1.12
10-min:	0.803	0.899	1.05	1.17	1.32	1.54	1.64
15-min:	0.979	1.1	1.28	1.43	1.62	1.88	2.01
20-min:	1.14	1.28	1.50	1.67	1.90	2.20	2.35
25-min:	1.31	1.47	1.72	1.92	2.17	2.52	2.69
30-min:	1.47	1.65	1.94	2.16	2.45	2.85	3.04
60-min:	1.9	2.15	2.56	2.88	3.32	3.96	4.27
2-hr:	2.32	2.65	3.18	3.61	4.19	5.06	5.5
3-hr:	2.53	2.89	3.49	3.99	4.71	5.85	6.44
6-hr:	2.93	3.29	3.95	4.58	5.54	7.27	8.26
12-hr:	3.42	3.72	4.4	5.13	6.38	8.88	10.4
24-hr:	3.9	4.31	5.22	6.2	7.88	11.2	13.3
2-day:	4.4	5.11	6.5	7.86	10	14.1	16.5
3-day:	4.9	5.61	7.02	8.42	10.7	15	17.6
4-day:	5.35	6	7.35	8.73	11	15.4	18
7-day:	6.44	7.05	8.35	9.69	12	16.4	19
10-day:	7.36	8.06	9.46	10.9	13.2	17.5	20.1
20-day:	10	11.2	13.3	15	17.6	21.9	24.3
30-day:	12.5	14	16.6	18.8	21.7	26.2	28.5
45-day:	15.8	17.8	20.9	23.5	26.9	31.9	34.3
60-day:	18.8	21	24.5	27.4	31.2	36.9	39.6

NOAA Rainfall Data: Tampa 2001-2024



Out of Our Control: Weather Intensity

- Rainfall totals add up quickly! .5 inches makes a HUGE difference.
See examples below from NOAA



1 inch per hour



1.5 inches per hour

Source link:



Projects Around Copeland Park



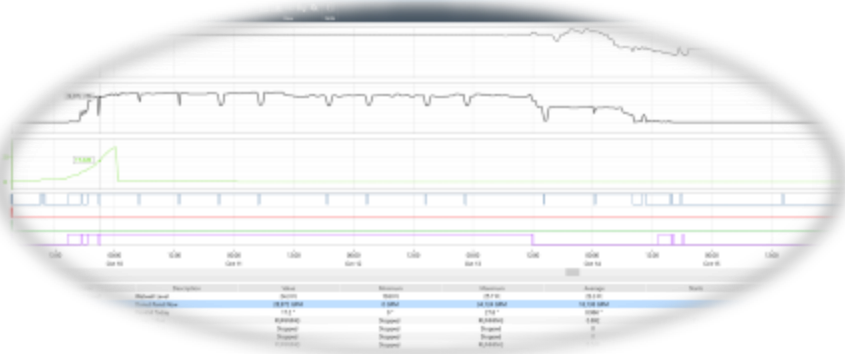
Forest Hills Park Pump Station
(in design)



Copeland Park Pump Station
(under construction)



N. Tampa Closed Basin
Pond Expansion



Improved Active Monitoring Systems



Portable Back-up Generators Ready

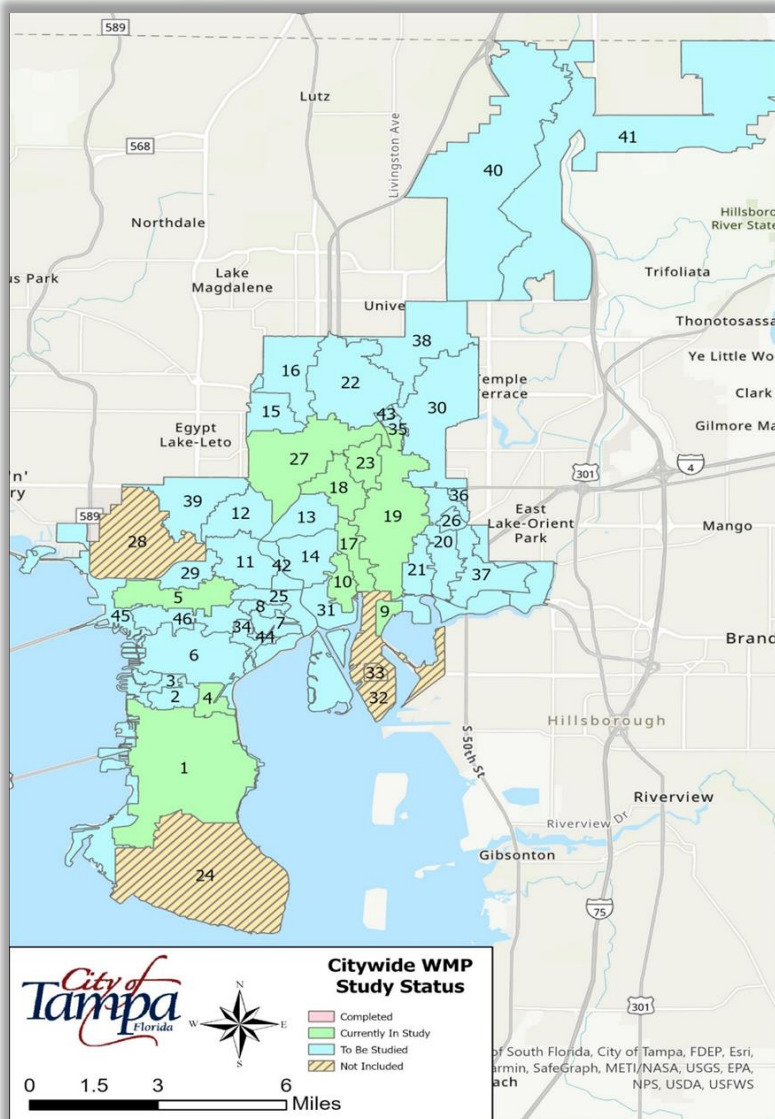
NEW Watershed Master Plan

What is it?

- The Citywide **Watershed Master Plan** (WMP) will allow us identify and prioritize future stormwater infrastructure projects using the latest predictive models and data.
- The WMP will be the foundation for stormwater management for generations to come.

What are the Benefits?

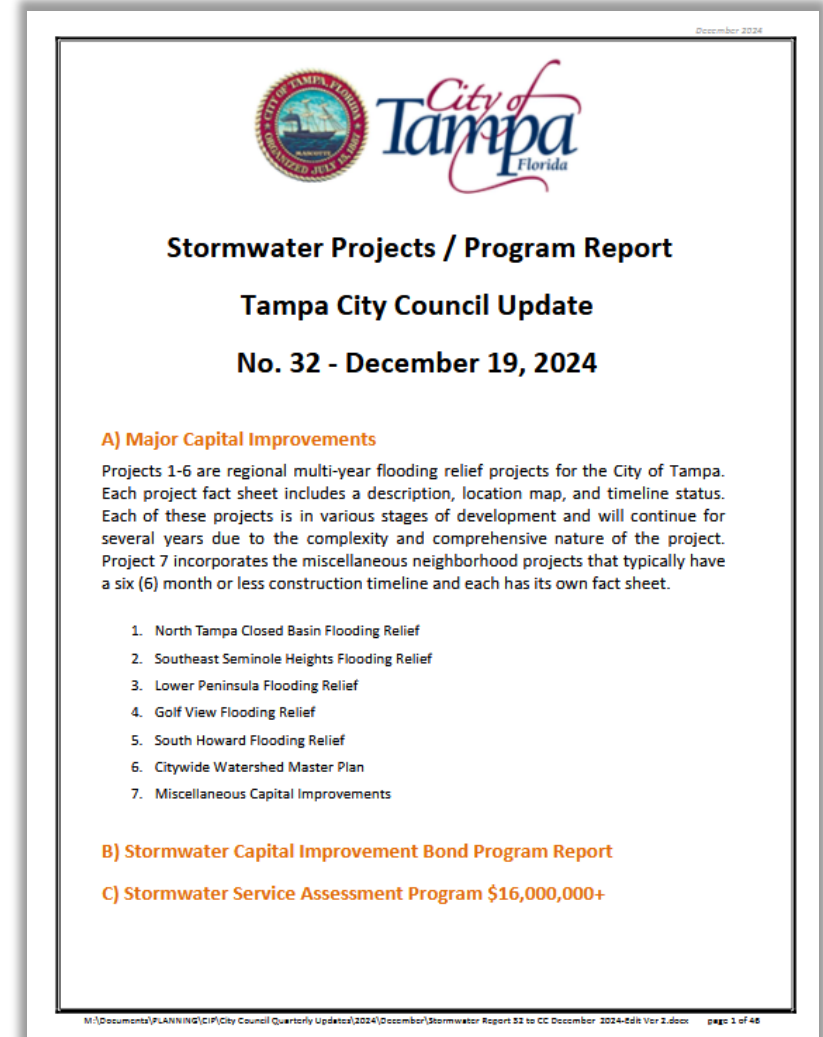
- It will also **save residents' money** by leading to a reduction in flood insurance premiums through an improved **Community Rating System** (CRS) class.



Stormwater Quarterly Reports

What is it?

- Each quarter the Stormwater team publishes a report documenting ongoing flood relief **capital projects, assessment/funding totals, maintenance reports**, as well as **project photos**.
- It is a great way to track our progress.



To Learn More About Us:

**To learn more about the City's Stormwater Division
visit:**

<https://www.tampa.gov/mobility/stormwater>

Need assistance?

Call for service:

813-274-3101

24-hrs a day, 365-days a year!

Visit:



How You Can Help

Be a good stormwater steward. Every bit helps!

- Only rain down the drains – **DO NOT** blow leaves or debris.
(submit photos / video of violators)
- Report drainage issues to us via TampaConnect.com.
- Adding compost to grass on your property can increase soil holding capacity and reduce stormwater runoff.
- Share your feedback on a new Adopt-a-Drain Program.



Consider purchasing FLOOD INSURANCE.

Be Tampa Ready!

HURRICANE SEASON HAS ARRIVED



Make a plan

Have a plan in place for you and your family should disaster strike



Get a kit

Ensure your disaster supply kit has the essentials you may need



Stay Informed

Text TAMPAREADY to 888-777 (Envía TAMPALISTA al 888-777 para español)

Sign up for Alert Tampa emergency notifications

Follow @AlertTampa on Twitter

Be #TampaReady // tampa.gov/Hurricane



Take our Community Action Survey

We want to hear from you!

**Scan the QR code and take a
brief Community Action Survey**

