

# UPPER NINTH WARD COMMUNITY FLOOD MITIGATION





A community-led partnership to analyze  
flooding in the neighborhood and  
propose solutions



**MAR AIS**  
CONSULTANTS

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## ROLE **CIVIL ENGINEER**

- Our office is located in Central City
- We have over 40 years of combined experience with this type of work
- Our employees have performed similar studies in several neighborhoods in Gentilly, St. Roch, Mid City, and City Park

# OUR TEAM



**JENNIFER SNAPE PE**



**CLEO PAPPAS PE**



**JAKE YEMMA PE**



**LAURA SNAPE**



**ALEXANDER VU**



**HENRY MIECZKOWSKI**



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## PARTNER FIRMS

### **Freese and Nichols**

Modeling and Design

### **Dana Brown & Associates**

Design and Community Engagement

### **Gandolfo Kuhn**

Surveying

# PROJECT OVERVIEW



The Upper Ninth Ward neighborhood project area consists of the 296 city block section bounded by Florida Ave to the north, Industrial Canal to the east, St. Claude Ave. to the south and Montegut St. to the West.



# PROJECT SCHEDULE

COMMUNITY ENGAGEMENT



- ▶ **PROJECT TIMELINE**  
SUMMER 2025  
PROJECT KICKOFF
- ▶ SURVEY & DATA COLLECTION
- ▶ DRAINAGE MODELING
- ▶ PROJECT SCOPING
- ▶ UPDATE DRAINAGE MODEL & PROJ. DEVELOPMENT
- ▶ FINALIZE DESIGNS, STUDY & REPORTS  
SUMMER 2026

# A COMMUNITY-LED PARTNERSHIP



*Water Wise Upper 9th Ward and Bunny Friend Neighborhood Association have either held or participated at 22 community outreach, education, and social events that have engaged about 546 people in the topic of green infrastructure.*





Thanks to community involvement, Water Wise Upper 9th Ward partnered with BFNA has:

Installed 6 rain barrels

Installed 17 rain gardens

Installed 15 french drains

Installed 5 permeable paver systems

Planted 141 trees

In total, these projects have a storage capacity of 45,000 gallons of rainwater.

**GET TO KNOW YOUR  
INFRASTRUCTURE**

# AT HOME GUTTERS AND DOWNSPOUTS

During rainfall, water strikes the roof, drains into the gutters, flows through the downspouts, and eventually travels down driveways into the streets.



# STREET LEVEL CATCH BASIN

Catch basins, also called inlets, collect runoff and move it to underground pipes.





# UNDERGROUND DRAINAGE PIPES

Drainage pipes carry water under the streets throughout the city. There is a large network of pipes of various sizes



# LARGE-SCALE DRAINAGE CANAL

Drainage pipes typically outfall into a drainage canal, which can be open or covered. In this area, there is an open canal along Florida Avenue.



# LARGE-SCALE PUMP STATION

Canals lead to pump stations where water is lifted over the levees and out to the lake or outfall canal.

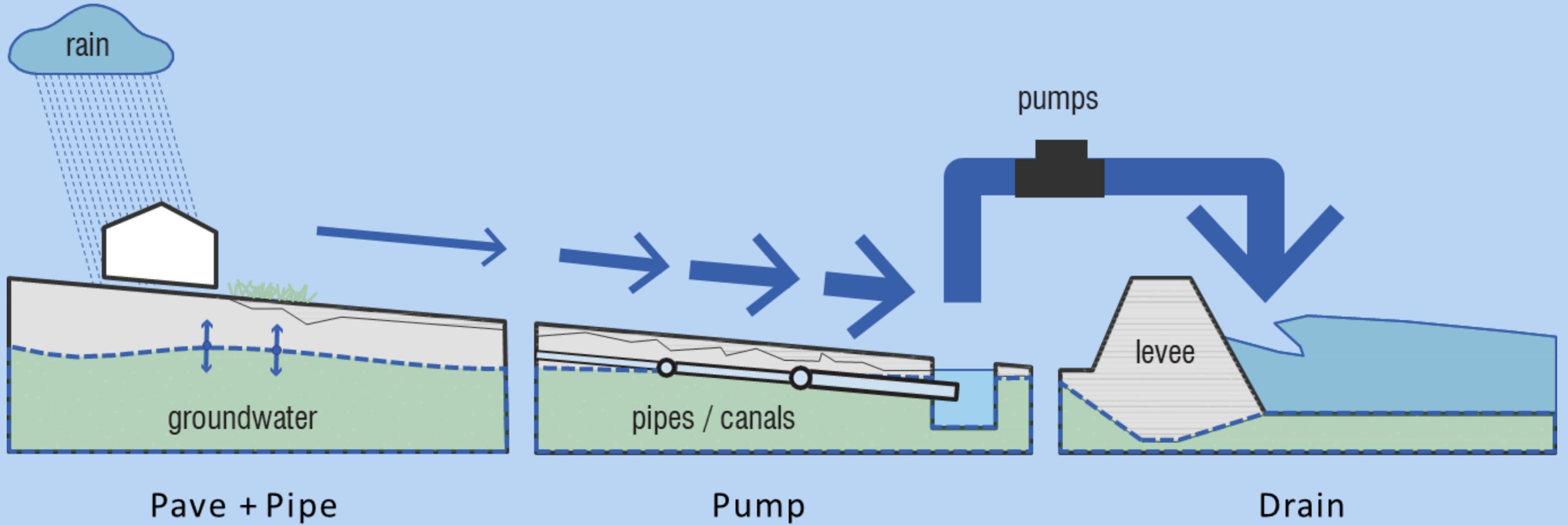


# LARGE-SCALE OUTFALL CANAL

Outfall canals carry water from the pump station to the lake.



**FOLLOW THE RAINDROP**





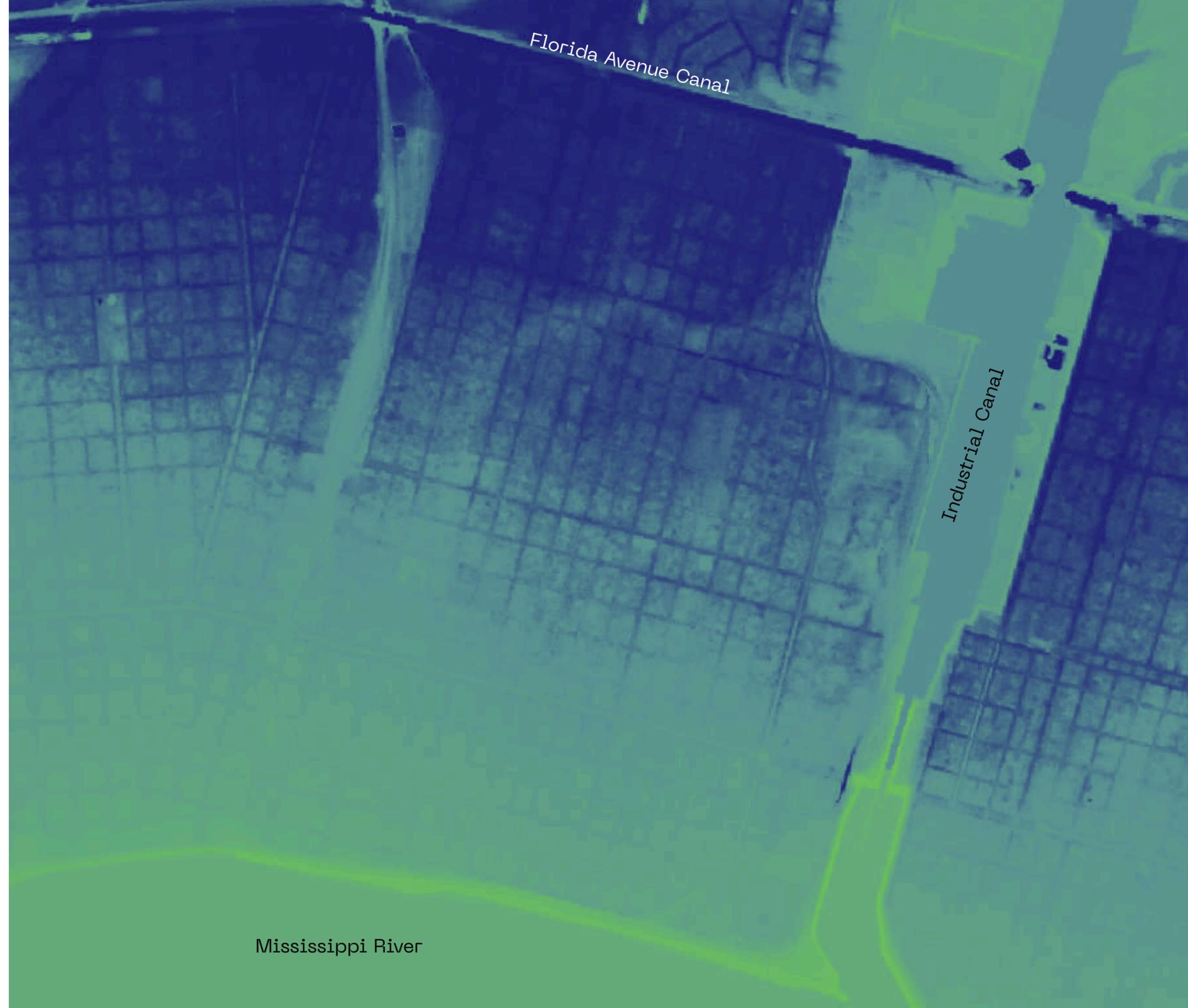
**WHY IS IT FLOODING?**

# GROUND ELEVATIONS

## UPPER NINTH WARD

This map shows the ground elevation with bright green being highest and dark blue being lowest.

As you can see, the areas near the river are higher and the areas by Florida Avenue are lower.



Mississippi River

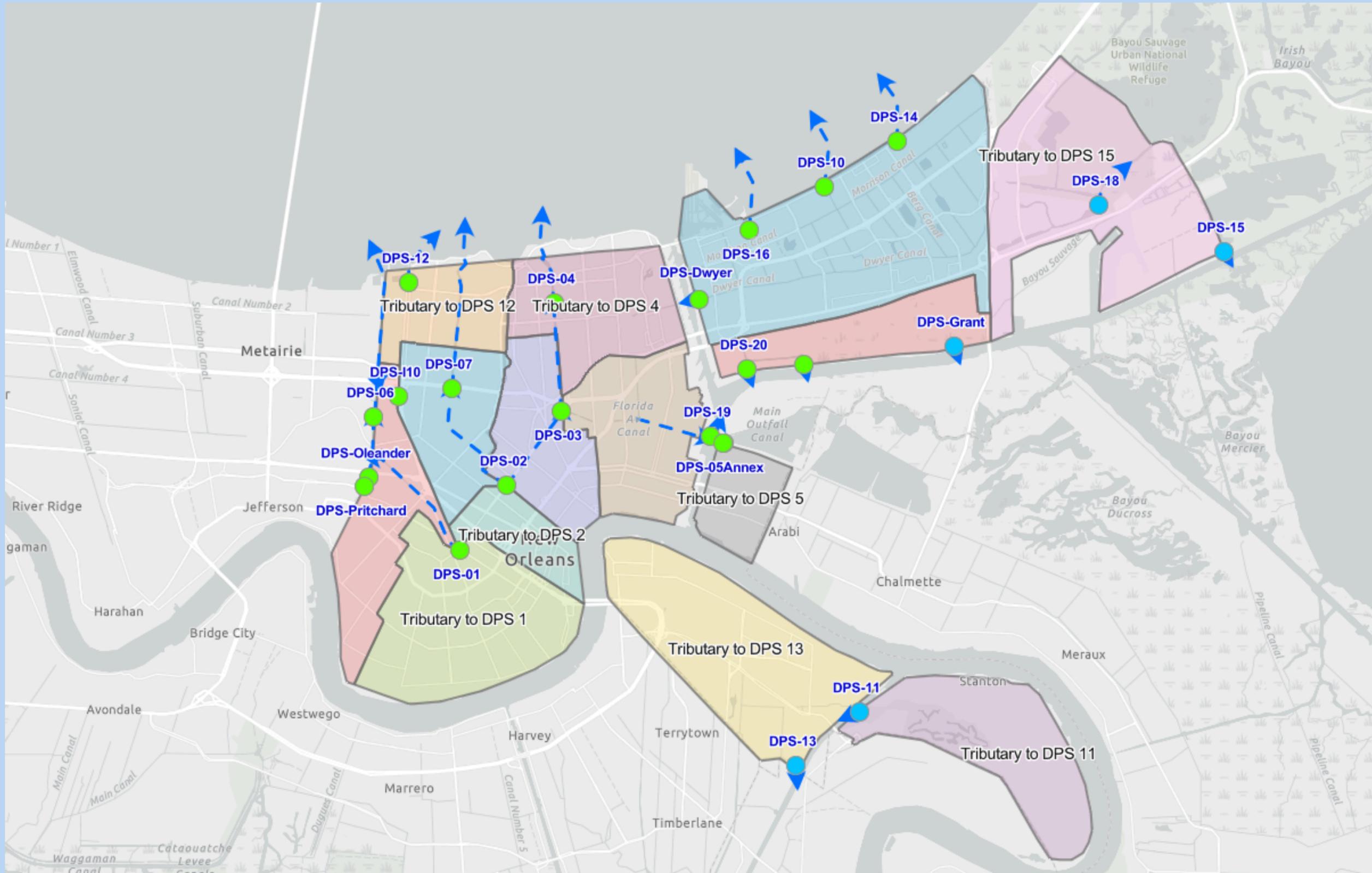
# DAMAGED INFRASTRUCTURE

- Clogged catch basins at the street level
- Broken pipes from catch basin to main line
- Broken main lines
- Clogged canals



# PUMP STATION CAPACITY





# THE WATERSHED FOR THE UPPER NINTH WARD

## LEGEND

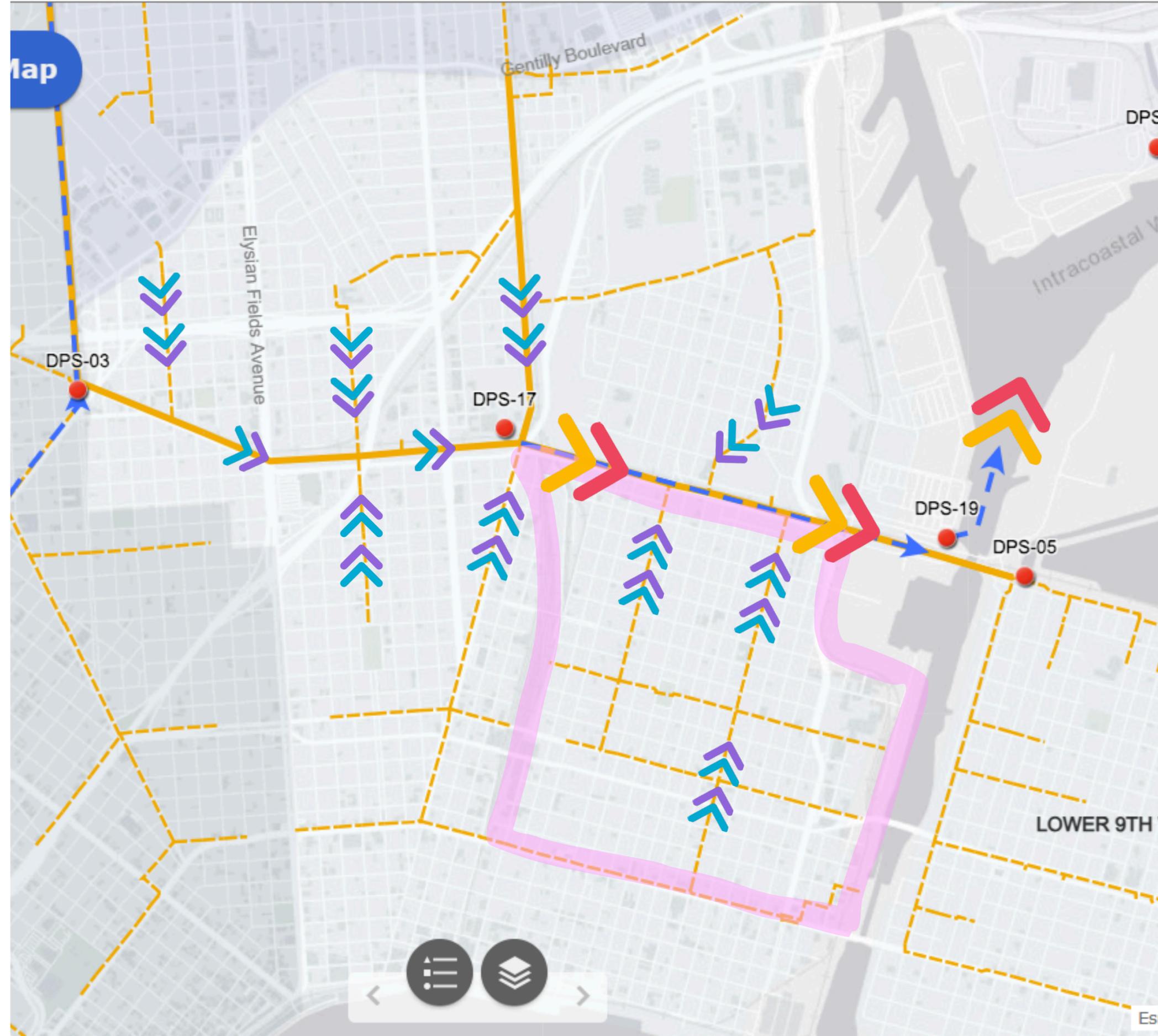
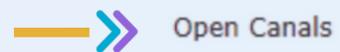
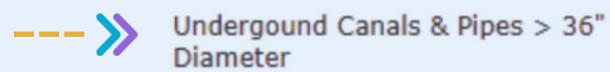
Stormwater Pump Station



Pumped Stormwater Flow



Stormwater Pipes & Canals (S&WB-owned)



# DRAINAGE PUMP STATION 19





# **WHAT CAN RESIDENTS DO?**

Complete the survey!

Note when and where you see flooding in the neighborhood and share.

Take photographs and share them with the design team.



Thank you for your time!  
Questions?

# NEXT COMMUNITY MEETING

TOPIC: GREEN INFRASTRUCTURE 101 AND TOUR

DATE: SEPTEMBER 20, 2025



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