



# **Update on Infrastructure Projects & Drainage Analysis**

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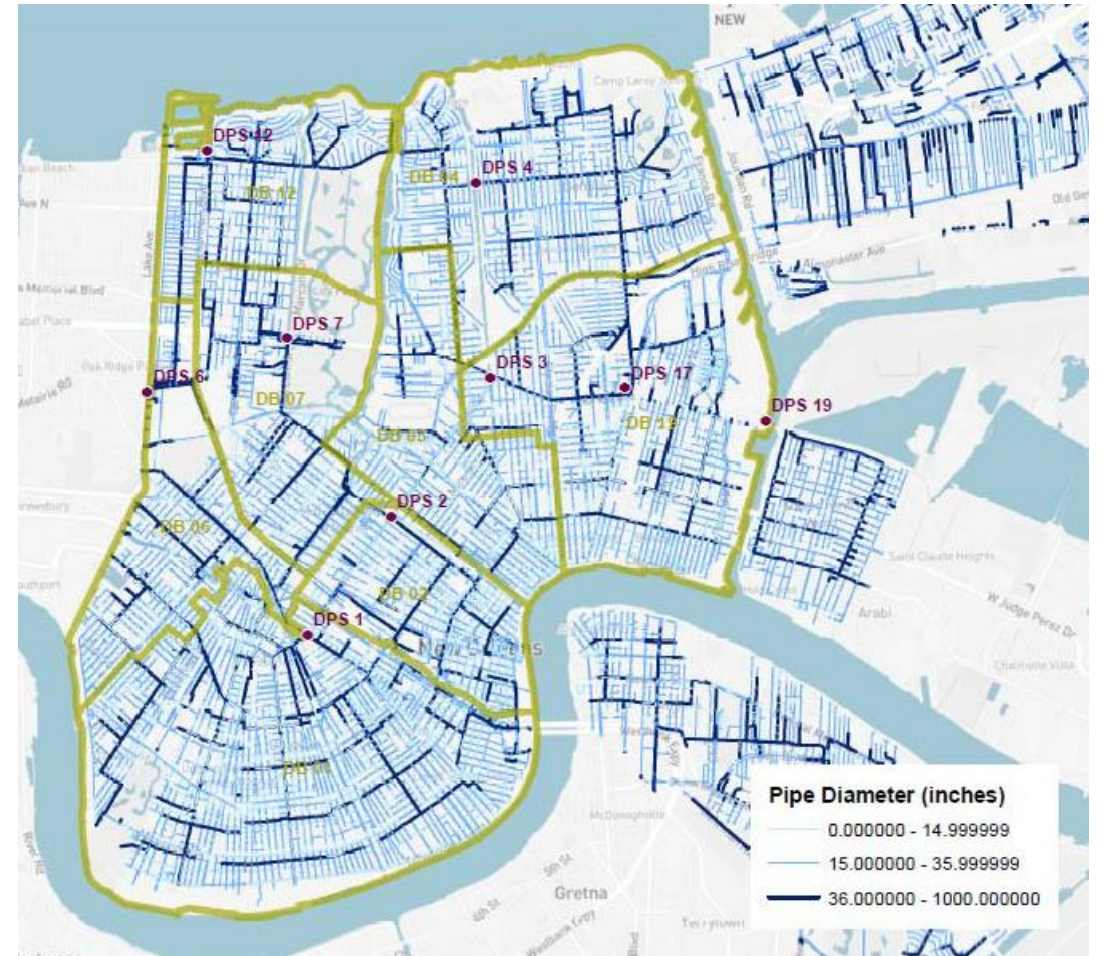
**City of New Orleans**

September 5, 2019

# Infrastructure Challenges

## *DPW Drainage System*

- More than 72,000 catch basins
- More than 1,500 miles of pipes under 36" in diameter carry water from catch basins to SWBNO system
- More than 48,000 drainage manholes allow access for inspection and maintenance of drain lines and connections



# Infrastructure Accomplishments

*Joint SWBNO / DPW Infrastructure (JIRR) Program*

## ***Then – May 2018***

*JIRR Program stalled, less than 1% of Funds Spent*

## ***Now – As of August 30, 2019***

*JIRR Program spending accelerated, approximately 5% of City's \$1.4B Obligation Reimbursed*

- Completed 9 road projects worth **\$25M**
- 12 road projects under construction worth **\$80M**
- Kicking off construction on 6 road projects worth **\$40M** in next 90 days
- Another 14 projects will be advertised in the next 30 days.

*Where possible, adding permeable pavement to parking lanes on Waves 3 and 4*



# Infrastructure Accomplishments

HMGP / NDR Highlights <https://nola.gov/resilience/>

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- In progress on two major green infrastructure/drainage projects (Hagan Lafitte and Pontilly) worth **\$21.3M** adding more than 10 million gallons of stormwater storage to the system.
- Received the final funding approval for the **\$16.3M** HMGP portion of the Mirabeau Water Garden project, which will store up to **10 million gallons of storm water** on the 25-acre site.
- Reached 100% Design on the Broadmoor DPS 01 project, which includes nine New Orleans neighborhoods and will store up to **13 million gallons of storm water**.
- We recently received FEMA approval on the City Park Storm Water Improvements that includes a system of new weirs that when complete, will store up to **49 million gallons of storm water**.
- We have also put more than **\$87M** in new projects in design through the HUD-funded Gentilly Resilience District.

# Hagan Lafitte Project

*Easton Park Underground Storage Tanks (Will Hold 1.2 Million Gallons of Water)*

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# South Galvez Street Green Infrastructure Features

*Pervious Parking Lanes can hold roughly 126,000 gallons of water – more than 1,500 bathtubs full of water*

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# Cherokee Street Green Infrastructure Features

*Rain Gardens and Pervious Parking Lanes*

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# Infrastructure Accomplishments

## *Fair Share - 2020*

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- **Will lead to more than doubling the Department of Public Works Maintenance staff by then end of 2022**
  - 42 additional employees
  - The increase in staff will also allow DPW to bring a number of tasks in-house and increase overall productivity
- **Will establish five additional maintenance inspectors (for a total of 10), which will do the following:**
  - Inspect and provide next steps for all 311 cases the same week as complaints are logged, effectively cutting response times by 50 percent
  - Provide mandatory inspection of all permits issued in Public Right-of-Way and ensure that City standards/specifications are being followed, effectively reducing future 311 complaints from non-compliance in the Public Right-of-Way
  - Monitor City-wide for unpermitted activities and assist in sending out notices to violators
- **Will allow for purchasing 28 pieces of new equipment, all of which will help the crews to operate more efficiently, including:**
  - Four Vac Trucks
  - Three Pothole Patchers
  - Two Dump Trucks
  - Four Excavators
  - Two Skid Steers (Support CB/MH and Sidewalk Crews)
  - Nine Pickup Trucks
  - Four Trailers



# Infrastructure Accomplishments

## *Fair Share - 2020*

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- **Will lead to 72,000 catch basins being cleaned on a 2-3 year cycle**
  - Information about catch basin cleanings and assessments can be tracked on the City's catch basin status map: <https://nola.gov/dpw/catch-basins/>
- Will establish three exclusive ditching crews that, when working in conjunction with drainage crews will provide comprehensive drainage improvements on a block by
  - 1) re-establishing ditches and
  - 2) installing culverts under driveways when needed
- **Will enable the maintenance contractor to permanently pave more than 1,500 cuts annually**
- **Will establish the following crews:**
  - One additional alley crew in Lakeview – allows for **ALL** alleys to be addressed **EVERY** year
  - Two sidewalk repair crews that will handle 311 cases
  - Two catch basin / manhole repair crews that will handle 311 cases
  - **One pothole crew in each of the five council districts**
  - **One pavement patching crew per council district and one dedicated crew for the DDD**

# Infrastructure Accomplishments

*Fair Share – By 2021*

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- DPW Maintenance will have **12 Vac crews operating**
- Funds from one-time equipment purchases allow for **25 blocks of Asphalt Mill / Overlays and 25 blocks of concrete panel replacements** where needed (this number will increase in subsequent years)



# City, Sewerage and Water Board Provide Statement on Observed Flooding – May 12, 2019



**City of New Orleans**  
Mayor LaToya Cantrell

FOR IMMEDIATE RELEASE

May 12, 2019

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## City, Sewerage and Water Board Provide Statement on Observed Flooding

NEW ORLEANS — Today, the City of New Orleans and the Sewerage and Water Board of New Orleans released the following statement on observed flooding during morning storms:

More than five inches of rain fell in parts of the city between 11 p.m. and 6 a.m., with bouts of heavy rain at rates of two inches an hour and higher sparking Flash Flood Warnings. Widespread street flooding was reported throughout the city, most of which cleared within two hours. While today's event showed some improvements in the drainage system, observed flooding in some areas took notably longer to drain. Those areas include:

- Area bounded by Canal Boulevard, West End Boulevard, City Park Avenue, and Filmore Avenue
- Broad Street and Orleans Avenue corridors
- Banks Street corridor
- Franklin Avenue at I-610/I-10 overpass
- Napoleon Avenue from Claiborne Avenue to Broad Street
- St. Bernard Avenue corridor
- St. Claude Avenue from Elysian Fields Avenue to the Lower 9<sup>th</sup> Ward
- General De Gaulle and Wall Boulevards corridor

As we work to continuously improve stormwater management infrastructure, the City and the Sewerage and Water Board will analyze today's rain event and its impact. Using pump station and rain gauge data, drainage surveys, and video analysis, we will work to determine rainwater volume versus drainage capacity and to identify potential opportunities for drainage improvements.

"My administration has been laser-focused on infrastructure as a whole and stormwater management in particular," said **Mayor LaToya Cantrell**. "As we face our issues head on, we are using data and experience to better live with water."

Residents are encouraged to report clogged catch basins and areas of poor drainage to 3-1-1.

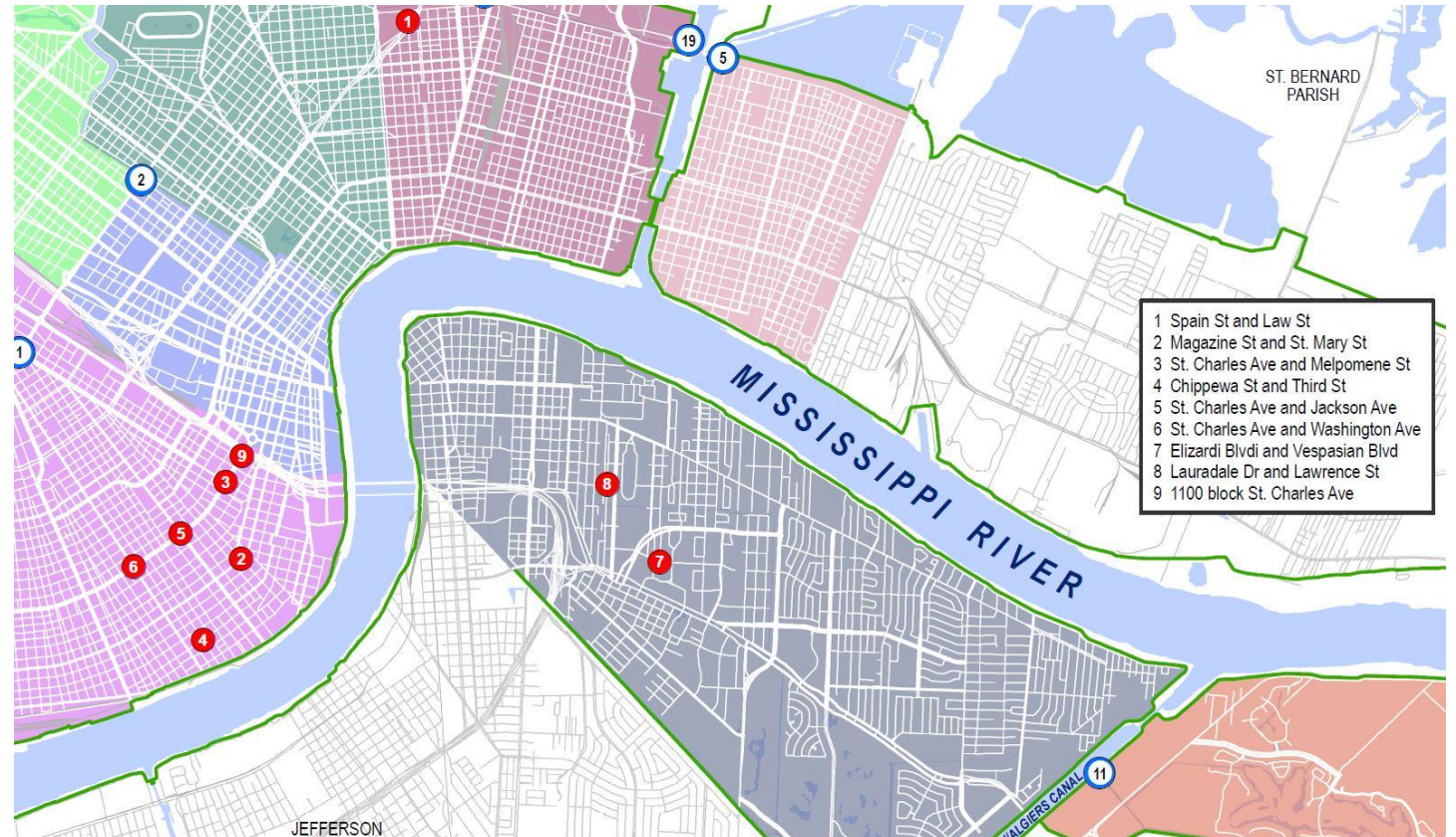
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# Drainage Analysis

*Under way at 9 Lingering Flood Locations Identified on August 26th*

- Lauradale and Lawrence
- 1100 St. Charles
- Elizardi and Vespasian
- Spain and Law
- Magazine and St. Mary
- St. Charles and Melpomene
- Chippewa and Third
- St. Charles and Jackson
- St. Charles and Washington



# Drainage Analysis

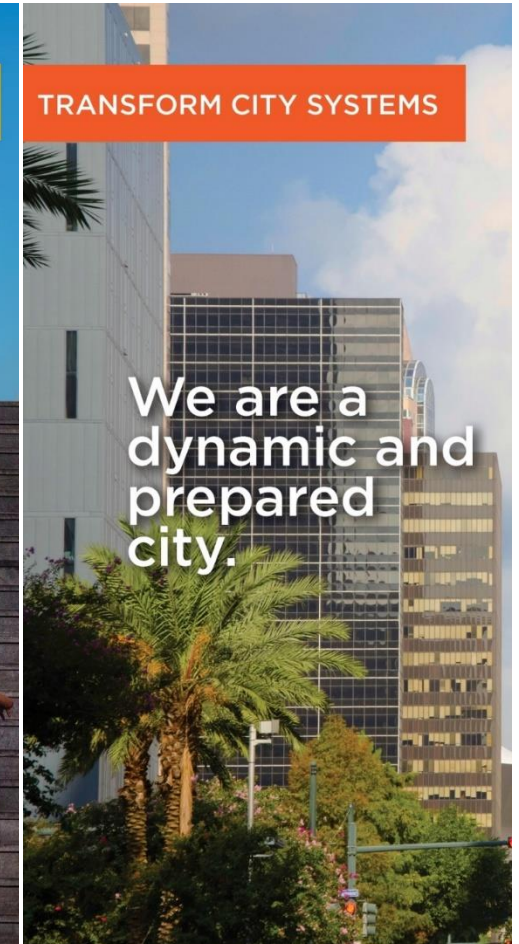
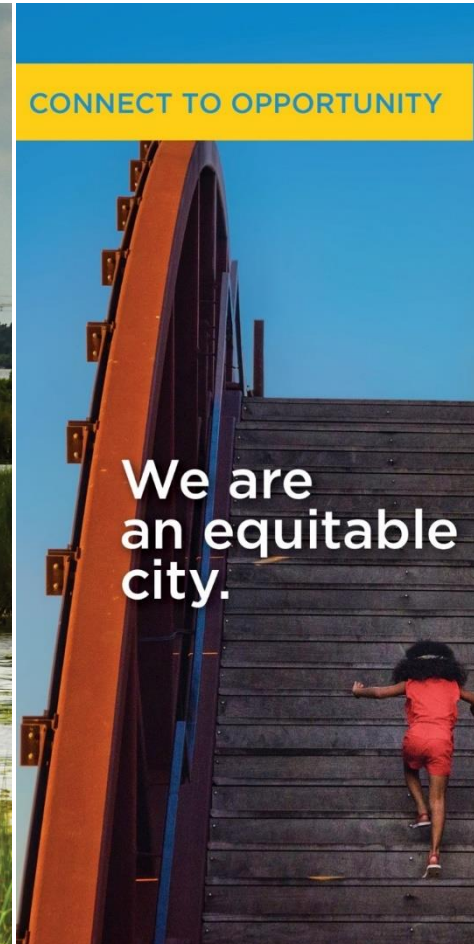
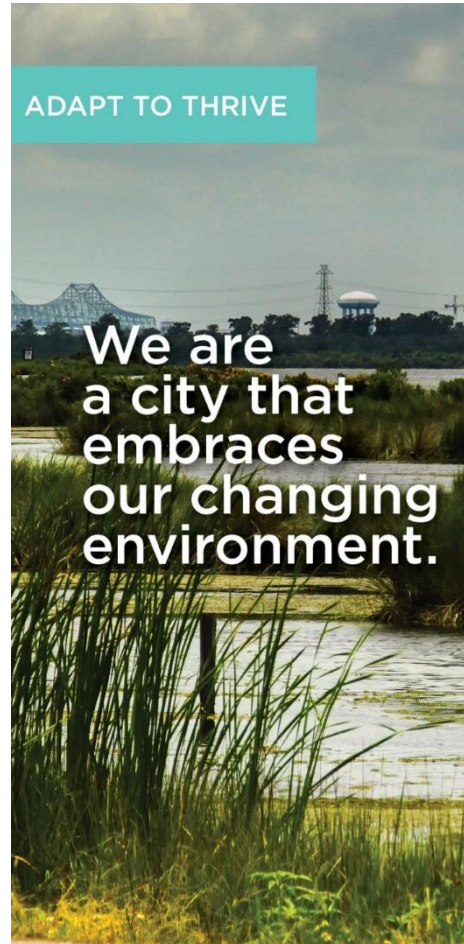
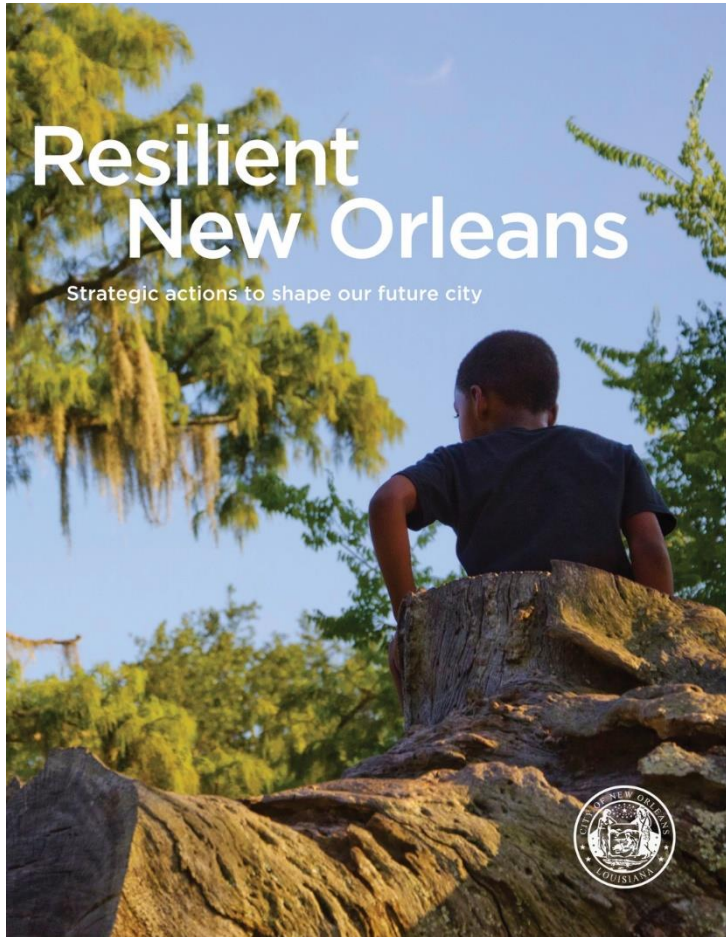
*Currently Under way*

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- CCTV, cleaning of catch basins and mainlines, identifying broken pipes throughout city.
- Using the city wide existing drainage model to examine both the effects and possible solutions to flooding.
- Looking at the impacts of current 10” drain lines throughout neighborhoods where flooding has occurred and determining the appropriate line sizes to accommodate present day impervious areas.
- Exploring opportunities for rainwater detention storage in neutral grounds and low lying areas during rain events.
- Studying our City’s groundwater and soils and to understand how our water management systems impact the sinking, or subsidence, of our soils.

# Resilient New Orleans

## *Climate Adaptation Strategy*



# Climate Action for a Resilient New Orleans

*Climate Mitigation Strategy (50% reduction by 2030)*

