



Town of Loxahatchee Groves

Resilient Florida

Progress Update for the Town Council:

Anita Kane	—	Mayor
Margaret Herzog	—	Vice Mayor
Phillis Maniglia	—	Councilmember
Lisa El-Ramey	—	Councilmember
Paul Coleman	—	Councilmember

May 6, 2025



KESHAVARZ
— & ASSOCIATES —
CIVIL ENGINEERING | SURVEYING | CONSULTING

A Brief Recap

The Town has secured a grant from the state to complete a Town-wide drainage survey and study.

Under this study, the drainage system culverts, bridges, and canals were surveyed, mapped and modeled using current and projected rainfalls. The model combines surveyed data with LiDAR topography to calculate flows and water surface elevations.

The drainage system model will help Town staff to identify possible weak points and test out potential fixes using a mathematical simulation.

[Review Public Outreach Meeting No. 1 slides or video for further details.](#)

Program Tasks & Timeline

Major Milestone

Completion Date

- | | |
|------------------------------------|-------------|
| • Project Kickoff | Completed |
| • Data Collection | Completed |
| • Steering Committee Meeting No. 1 | Completed |
| • Public Outreach Meeting No. 1 | Completed |
| • Steering Committee Meeting No. 2 | April 2025 |
| • Exposure Analysis | In Progress |

Program Tasks & Timeline

Major Milestone

Completion Date

- | | |
|------------------------------------|----------------------|
| • Impact Analysis | In Progress |
| • Public Outreach Meeting No. 2 | May – June 2025 |
| • DRAFT Report | June 2025 |
| • Steering Committee Meeting No. 3 | July 2025 |
| • Steering Committee Meeting No. 4 | October 2025 |
| • Final Report Submittal | December 2025 |

Modeling & Analysis Simulations

- 2025 Current Conditions

Rainfall data per NOAA Atlas 14

10-Year, 3-Day Rainfall: 10.0 in

25-Year, 3-Day Rainfall: 12.3 in

Tailwater data per SFWMD C-51 Basin Rule Reevaluation Study, 2015 C-51 Basin Model, D Road

100-year, 3-Day Rainfall: 17.0 in

Tailwater data per SFWMD EPBC FPLOS, 2025 C-51 Basin Model, Big Blue Trace

Modeling & Analysis Simulations

- 2045 Future Conditions

Rainfall data per NOAA/ NCICS RCP 8.5 Scenario

100-Year, 3-Day, Rainfall: 19.87 in

Sea level data per NASA/ NOAA

Intermediate Low Sea Level = + 0.98'

Intermediate High Sea Level = + 1.40'

Tailwater data per SFWMD EPBC FPLOS

2025 C-51 Basin Model, Big Blue Trace

- 2070 Future Conditions

100Year, 3-Day Rainfall: 22.61 in

Intermediate Low Sea Level = + 1.44'

Intermediate High Sea Level = + 2.63'

Vulnerability

- Depth at Critical Asset Locations
- Town Roadways



Operational Adjustments and Proposed Improvements

- Operational Adjustments and Proposed Improvements
 - Weirs at Okeechobee Boulevard
 - Utilize Folsom and A Road Discharge Structures
 - Increase Storage Capacity / Impoundments
 - Restore Canal Sections
 - Replace Undersized Culverts

Town Staff

Francine Ramaglia	- Town Manager
Richard Gallant	- Director of Public Works
Jeff Kurtz	- Project Coordinator
Amber Schneider	- Project Coordinator, Grant Manager

Public Works & Town Office Staff

Consultants & Contributors

Keshavarz & Associates - Civil Engineering & Surveying

Engenuity Group, Inc. - Civil Engineering & Surveying

Steering Committee - Guidance, Advisement, Oversight, Knowledge and Experience