Evaluating the Impact of Stormwater Mitigation on Mosquito Populations, Water Quality, and Quality of Life in New Orleans, Louisiana

Bayou Land RC&D Council
New Orleans Mosquito Rodent & Termite Control Board
Water Works
Project Goals

● Monitor green infrastructure sites to ensure that these areas are: draining properly, improving water quality parameters, and are not providing mosquito breeding habitats
● Increase citizen understanding of green infrastructure (GI) opportunities and limitations
● Increase citizen engagement with GI from the lot to the neighborhood level
● Provide managers with technical guidance which will inform MS4 program and support design criteria identified in local policies and ordinances.
Map of Project Area

Target rain gardens:

- 5302 Wildair Dr (Fillmore)
- 5019 Press Dr (Gentilly Woods)
- 1728 Deslonde St (Lower 9th Ward)
- 8641 Forshey St (Hollygrove)
Citizen monitoring
Mosquito Biology

Surveillance -
- Gravid trap
- Inspections
Mosquito data collected to date

5019 Press Dr. Rain Garden

University of Florida
Mosquito data collected to date

5302 Wildair Dr. Rain Garden

![Image of Mosquito Collection Site]

![Graph: Total *Culex q.* Mosquitoes at Wildair Rain Garden vs. Franklin Surveillance Site]
Mosquito data collected to date
Anticipated Outcomes

- Increased technical knowledge of the ability of green infrastructure to reduce water pollution and mosquito vectors
- Citizens will be more informed and engaged the City will have data to support the implementation of GI policies and ordinances.
- Support will be established for lot level and neighborhood level stormwater management from storm drain maintenance to rain garden construction