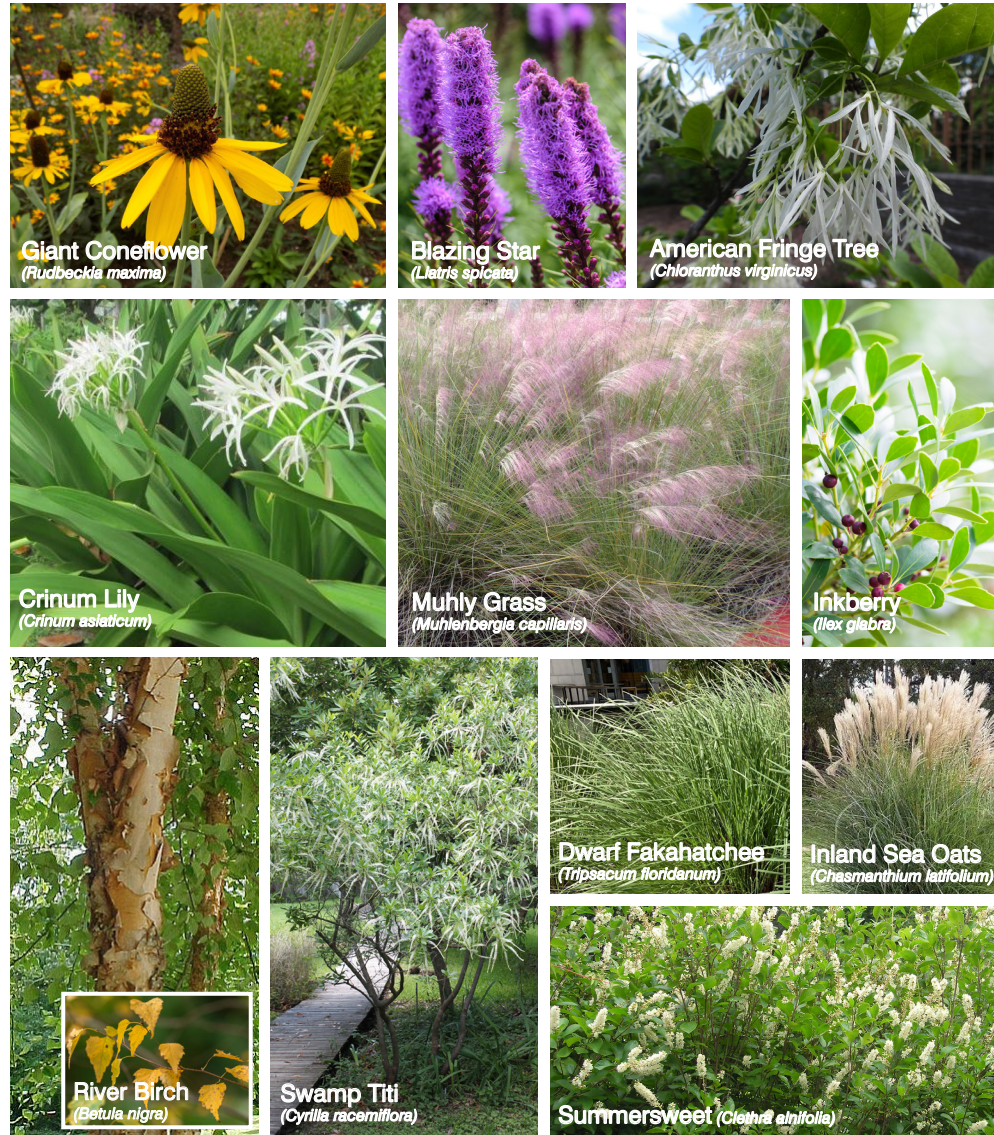


Plants you'll see in the Kreole Primary Elementary Demonstration Project:



Native Plant Selection:

Plants selected for the rain gardens (or bioretention cells) must be both flood and drought tolerant. Rain gardens are designed to hold water for 24-48 hours after a storm event. Yet with our long, hot summers the plants must also be able to endure seasons of drought. Native plants will establish in the landscape with relatively minimal irrigation and annual pruning, making them the most viable solution in coastal Mississippi landscapes. Naturally, many of the plants will attract beneficial pollinators such as birds and butterflies as well.

OCT - DEC	BID DOCUMENTS & CONTRACTOR SELECTION
JAN - APR	PERMITTING CONSTRUCTION & PLANTING STUDENT INVOLVEMENT
MAY - SEP	MAINTENANCE TRAINING & CLASSROOM EDUCATION

2023 | 2024

Learn More About Nature-Based Stormwater Solutions:

Regional case studies, educational materials, and more in-depth resources are available to you on the **LID Gulf Coast Story Map** →



Successful Examples of Nature-Based Stormwater Management:



Pick up your Nature-Based Stormwater Card Set at the Kreole Primary Elementary School office to learn more about nature-based solutions and how some strategies may be implemented on your property.



Project Contact:

GRAND BAY NATIONAL ESTUARINE RESEARCH RESERVE
MISSISSIPPI DEPARTMENT OF MARINE RESOURCES

Margo Posten, CTP Coordinator

Phone: 228-523-4007

Email: margo.posten@dmr.ms.gov

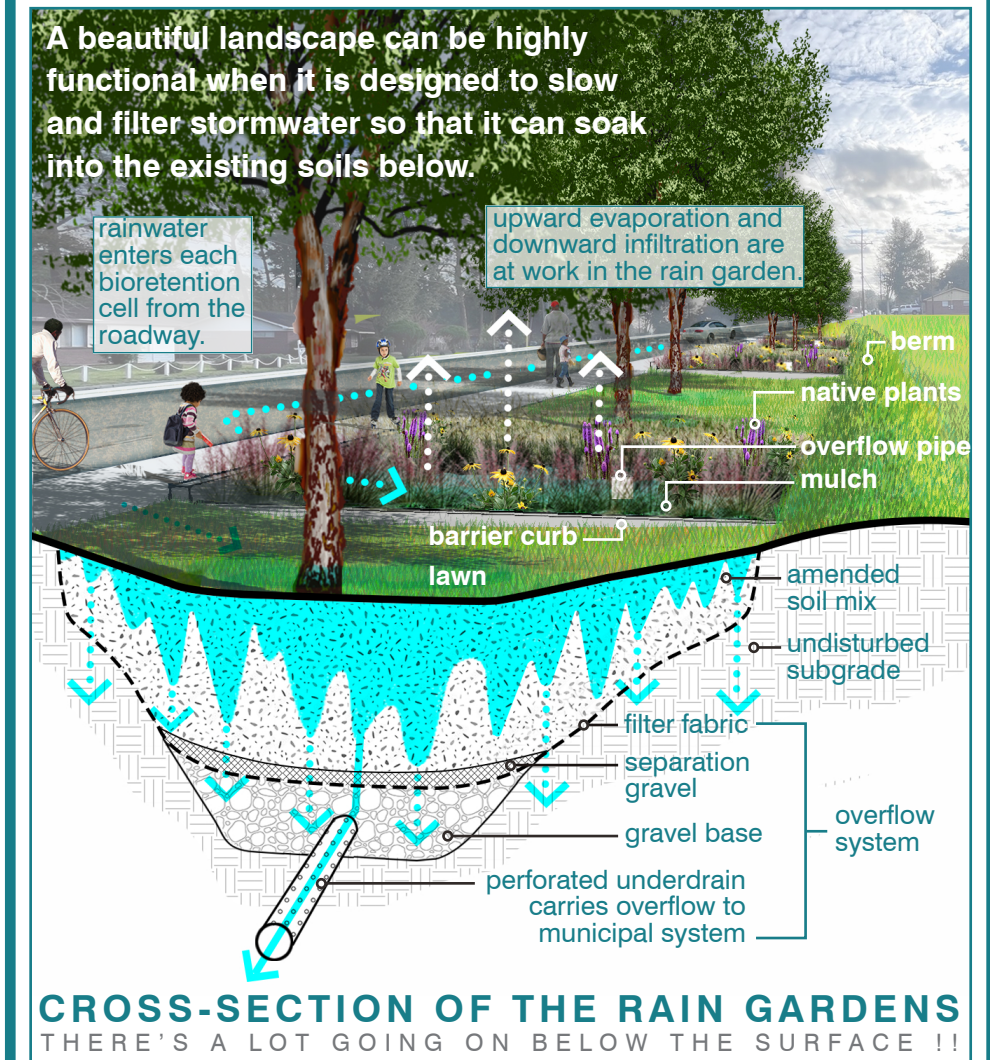
Your questions and concerns are important to us!



This project is funded by an EPA grant awarded to DMR / Grand Bay NERR, and being implemented through a collaborative partnership with The Moss Point School District.

Kreole Elementary Demonstration Landscape

A NEW PROJECT FOR YOUR NEIGHBORHOOD
 DEMONSTRATING NATURE-BASED SOLUTIONS FOR STORMWATER MANAGEMENT



Project Background:

This project is funded by an EPA grant awarded to The Mississippi Department of Marine Resources / Grand Bay National Estuarine Research Reserve in partnership with the Mississippi State University's Gulf Coast Community Design Studio and PLACE-SLR. The project aims to implement Nature-Based Stormwater solutions that will reduce flooding and pollutants carried by stormwater in the City of Moss Point. Kreole Primary-Elementary School was selected for the project site as a publicly accessible place to demonstrate how nature-based solutions can reduce flooding while creating a beautiful landscape that functions to slow and filter stormwater.

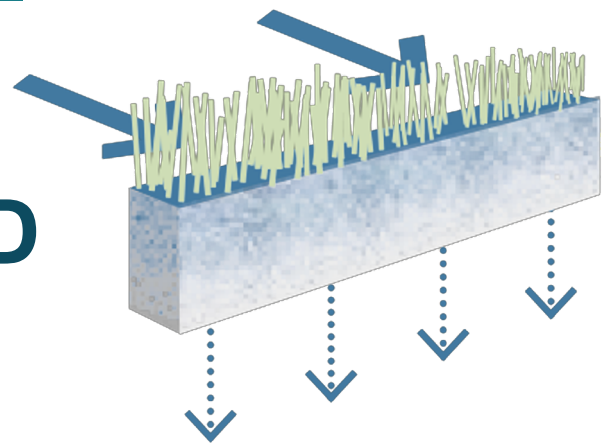
Why Nature-Based?



Rainwater that runs off pavement or disturbed surfaces can cause flooding and carry sediment, litter and other pollutants into our waterways. How we build and what we do on our properties affects what ends up in our bays and bayous, impacting water quality, habitat and our ability to enjoy the things we love like boating and fishing.

Nature-Based Solutions are designed to slow down and spread out stormwater runoff through designed placement of plants and their root systems so that it can soak into the soil naturally. These solutions often work together with conventional systems such as underground piping to take pressure off municipal systems, allowing those systems to work more efficiently in heavy storm events.

**SLOW
SPREAD
SOAK**



Project Timeline:



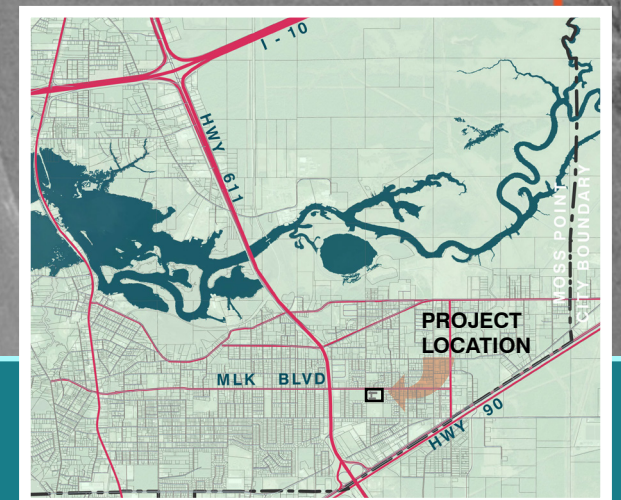
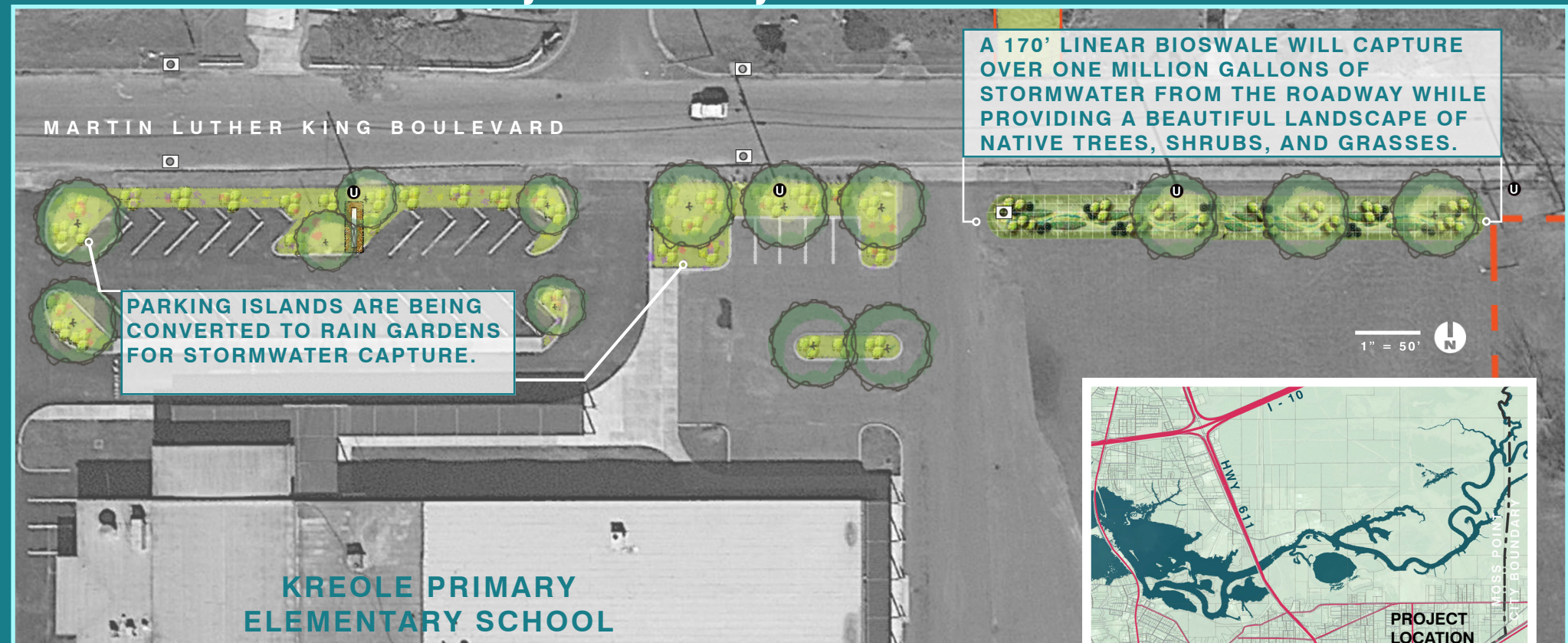
Working Together with Community for Stormwater Solutions in Moss Point:



Community members play an important role in stormwater management planning. From June of 2022, the project team has facilitated several meetings with City leadership, the School Board, School Maintenance Staff, and community members. The community has participated in interactive nature-based stormwater education events, and surveys.

The local knowledge shared through these events about precise flooding locations, severity of flooding, and frequency of flooding has guided the project team to design for implementation of a nature-based stormwater demonstration project at Kreole Primary Elementary School on Martin Luther King Boulevard in Moss Point.

A Demonstration Landscape Utilizing Nature-Based Stormwater Strategies is Planned for Kreole Primary Elementary School in 2024:



In June of 2023 the Moss Point School Board approved a plan for nature-based stormwater solutions that will include converting parking islands to rain gardens and constructing a 170' bioswale along Martin Luther King Boulevard. Slated for completion in Fall of 2024, the project will slow, capture, and filter stormwater runoff along the roadway to potentially reduce flooding that currently occurs in heavy storm events. Following implementation, maintenance training and education will be provided for school staff and interested community members. The project team will monitor the system to learn how water quality and infiltration rates are impacted by the green infrastructure system.