

CITY OF BRUNSWICK STORM WATER INITIATIVES

Garrow Alberson, P.E.

Director of Engineering & Public Works

RECENT STORM WATER PROGRAMS & PROJECTS

2013 - 2021

Storm Water
Utility

Storm Water
Master Plan

Rethinking
Runoff Plan

GI / LID
Retrofits

Tide Control in
East Brunswick

Improving
Resilience in
West Brunswick

STORM WATER UTILITY



Based on impervious surface on property

Applies to all properties – No Exemptions

- Georgia Ports Authority
- College of Coastal Georgia
- Southeast Georgia Health System
- Board of Education
- Housing Authority
- Churches

Flat rate for all residential properties

Credits available based on Runoff Reduction Measures

- Maximum Credit – 50%

Advertising prior to implementation

- Radio, Newspaper
 - Public Meetings
 - Individual meetings with largest users
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STORM WATER UTILITY

5,123 Single Family Residential properties

1,750 Non-SFR

Equivalent Residential Unit (ERU) = 2,220 square feet

- Based on median size of SFR properties

All Single Family Residential properties = 1 ERU

Current Rate = \$4.50 per ERU per month

- Residential - \$54.00 annual cost

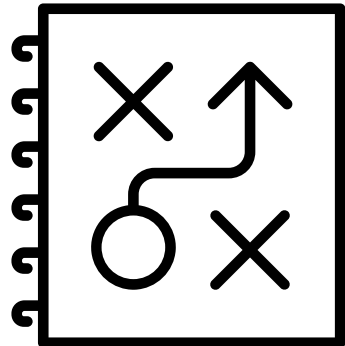
Approximately \$1M in revenue generated annually

STORM WATER UTILITY

- All storm water personnel costs
 - 3 additional crew member positions
 - 11 total staff positions
- Capital Equipment
 - Vacuum Truck
 - Street Sweeper
 - Inspection Camera Vehicle
 - Excavator
- Projects
 - Storm Water Master Plan
 - Pipe / Inlet Replacements



STORM WATER MASTER PLAN



15 Recommended Capital
Improvement Projects

Preliminary Hydrologic and
Hydraulic Analysis

Prioritization

- Current Flooding Issues
- Undersized Infrastructure
- Lack of Infrastructure
- Tide Control Issues
- Maintenance Issues

STORM WATER MASTER PLAN

Prioritized Improvement List

Justification for funding / spending

Supporting document for grant applications

Progress checklist

RE-
THINKING
RUNOFF
PLAN



Coastal Incentive Grant

Targets problematic drainage / flooding areas

Strategy for implementing Green Infrastructure
/ Low Impact Development measures

Reduce rainfall runoff, pollution and demand
on existing drainage system

Develop and identify “shovel-ready” GI/LID
projects

RE- THINKING RUNOFF PLAN



Coordination of other plans, previous grants, and other communities

Guidance from Georgia Stormwater Management Manual

Create a series of conceptual designs for future implementation

Share outcomes with local designers, contractors, and other communities

GI / LID RETROFITS IN BRUNSWICK

Georgia Environmental Protection Division
Section 319 (h) grant

Implementation of Projects from Re-thinking
Runoff Plan

Coordination of Master Plan and Community
Rating System requirements

Three Projects

- Fire Station #1
 - Liberty Ship Park
 - Goodyear Park
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GI / LID RETROFITS IN BRUNSWICK

- Fire Station #1
 - Pervious Concrete parking area
- Liberty Ship Park
 - Paving Grid parking area
 - Bio-Retention Cells
- Goodyear Park
 - Pervious Concrete parking area



GI / LID
RETROFITS
IN
BRUNSWICK

Includes monitoring of rainfall depth & infiltration rates

Share results through education and outreach plan

Community Workshop

TIDE CONTROL IN EAST BRUNSWICK

Coastal Incentive Grant

Reduce Tidal Flooding along US Highway 17

Replace existing tide control devices

Add new tide control at selected outfalls

Priority Project #5 in Master Plan

TIDE CONTROL IN EAST BRUNSWICK



Tide control devices at 15 outfalls

Mitigate impacts of sea level rise

Discussion with other communities on methods of tide control

Design and permitting of control devices

Share results with other communities, designers and local citizens

IMPROVING RESILIENCE IN WEST BRUNSWICK

Coastal Incentive Grant (Application)

Tide control at outfalls

Upstream drainage improvements

Priority Project #11 in Master Plan

QUESTIONS

