

# TOWN COUNCIL

## STAFF REPORT

### Projects and Watershed Resilience Department



<b>MEETING DATE:</b>	October 8, 2024
<b>SUBJECT:</b>	Projects and Watershed Resilience Department Monthly Report
<b>PROJECT MANAGER:</b>	Kimberly Washok-Jones, Director of Projects and Watershed Resilience

### **CAPITAL IMPROVEMENTS PROGRAM (CIP) UPDATE**

#### **PATHWAYS**

1. **Buck Island-Simmons ville Neighborhood Sidewalks and Lighting**
  - Construction of the Phase 6B sidewalks, drainage and lighting is **complete**.
  - **Next Steps**
    - Final closeout with SCDOT continues.
  
2. **New River Linear Trail**
  - Received \$26,000 PARD grant award and \$2 million in SC appropriations.
  - Easement donation from New Riverside Community Association, Inc. approved at 3/14/23 Town Council.
  - Groundbreaking completed 5/30/24.
  - Bathroom, well, security cameras and entry gate **completed**.
  - **Next Steps**
    - Continue engineering design and permitting for Phases 1 and 2.
    - Negotiations are ongoing with Central Electric and Santee Cooper for cost sharing terms and bridge maintenance.
    - Continue coordination of boardwalk connection for Four Seasons.
    - Submit Encroachment Permit and Phase 1 Construction Contract to Town Council for approval this Fall.

#### **SEWER & STORMWATER**

1. **Buck Island-Simmons ville Sewer (Phases 5A-D)**
  - Mainlines and laterals are constructed.
  - **Next Steps**
    - Mainline and lateral As-builts to be approved by BJWSA prior to Permit to Operate issuance from SC Department of Environmental Services (SCDES) (former DHEC).
    - Install house connections and decommission septic tanks upon receiving Permit to Operate.

## 2. Historic District Sewer Extension Phases 4 through 6 – Lawrence, Green and Water Streets

- Design for Phases 4, 5, & 6 were submitted to BJWSA for review.
- DRC review on 9/18/24.
- **Next Step**
  - BJWSA to submit to SCDES for permit to construct.
  - Construction implementation is pending permit approvals and easement acquisitions.

## 3. May River Watershed Action Plan Impervious Restoration Water Quality Projects

- Initial site investigations including geotechnical investigations and reports are complete for 8 of the 11 participating project sites.
- Palmetto Pointe Towns, Lowcountry Community Church and Apartment One declined to participate in the Program at this time.
- Fee-in-Lieu and Enterprise Fund establishment/administration Policy Document has been completed and pending Finance final review.
- Initial Property Owner contacts for the selected 15 Additional Sites within municipal limits have been made and concept plan development is in process.
- **Next Steps**
  - Preliminary Design of each of the 8 original sites in process.
  - Fee-in-Lieu Document under final review.
  - Adoption of related Master Fee Schedule items.

## 4. Shults Road Drainage Improvements

- Design Agreement with Sturre Engineering Approved.
- Geotechnical assessment completed by GHD.
- Design is 30% completed for drainage improvements for homeowner discussion and easement needs.
- Based on geotechnical assessment, infiltration feasibility deemed not likely due to groundwater elevation and soils.
- **Next Steps**
  - Project on hold and site/drainage issues will be assessed as part of a larger Comprehensive Drainage Assessment in FY25.

## 5. Stoney Creek/Palmetto Bluff Sewer Partnership

- 2022 updated cost-estimate for the project from BJWSA is \$7.2 million + contingencies. BJWSA is the Project Manager as the awardee of the RIA SCIIP grant.
- Finalized IGA with Town, County, and grant splitting sewer extension costs and BJWSA funding water extension costs.
- Project partner meeting held 9/12/24.
- **Next Steps**
  - BJWSA continues with community outreach with Town support and continues with design of the system. <https://bjwsa.org/251/Go2Sewer-for-a-Cleaner-Stoney-Creek>.

## **HISTORIC DISTRICT IMPROVEMENTS**

### **1. Boundary Street Lighting**

- TC approved contract with Dominion to install street lighting on the west side of Boundary Street.
- **Next Steps**
  - Dominion to install street lighting in FY25.

### **2. Squire Pope Carriage House Preservation**

- Building Construction substantially complete.
- Landscape improvements being completed by Hilton Head Landscape.
- Staff furniture was procured through state contact.
- **Next Steps**
  - Complete landscaping and hardscape mid-October.
  - Staff furniture install scheduled for 11/4/24.

### **3. Bridge Street Streetscape**

- Phase 1 **complete**.
- Initial Stakeholder meeting with Montessori and Hargray **complete**.
- **Next Steps**
  - Continue engineering design for SCDOT permitting.
  - Continue stakeholder meetings.
  - Continue planning and design for underground power and lighting plan.

### **4. Boundary Street Streetscape**

- Engineering Design is 70% complete and submitted to Watershed for stormwater initial review.
- Met with Dominion Energy on 5/13/24 and received a partial underground power layout on 6/14/24.
- Approved Change Order with Thomas and Hutton for additional structural design services for the Lawrence Street outfall.
- Approved Geotechnical Services with GHD for the Lawrence Street outfall.
- **Next Steps**
  - Continue coordinating with Dominion Energy to obtain underground power layout and facility locations.
  - Continue with engineering design and permitting.
  - Prepare easement exhibits and begin appraisals in FY25.
  - Construction to begin in calendar year 2025, subject to acquisition of all required easements.

### **5. Calhoun Street Streetscape**

- Preliminary engineering design is 40% complete.
- Met with Dominion Energy on 5/13/24. Awaiting underground conversion plans from Dominion Energy.
- **Next Steps**
  - Continue negotiations with May River Road property owners for main transmission line easements. Once the main transmission line easements have

been completed, then continue with engineering design through FY25.

- Prepare easement acquisition plats for Phase 1 in FY25 and begin easement acquisition.
- Phased construction is planned to begin in FY26 pending budget approval and acquisition of all required easements.

## 6. Pathway Pedestrian Safety Improvements

- **Completed** Historic District crosswalk study identifying and prioritizing future intersection/crosswalk improvements to meet ADA compliance.
- Phase 1 ADA sidewalk improvements along Goethe Road were **completed** on 1/23.
- Contract with ICE approved at 9/12/23 Town Council meeting.
- Finalized Phase 2 design plans.
- **Next Steps**
  - Follow up with property owners for Phase 2 easement acquisitions.
  - Draft Phase 2 solicitation.
  - Finalize Phase 3 analysis.
  - Acceptance of Phase 2 easement donations scheduled for 10/8/24 Town Council meeting.

## 7. Comprehensive Drainage Plan Improvements

- Consultant field work to identify and assess condition of stormwater assets in Crooked Cove and Guerrard Cove **completed** 5/12/24.
- Processing of field data in process.
- **Next Steps**
  - Develop 2D Hydrologic/Hydraulic model.
  - Final Draft of Individual Stormwater Asset Reports for Heyward Cove identifying results and needed work by asset owner (SCDOT, County, School District, Town and private) being prepared. Letter to accompany report to Asset Owners being drafted for review, approval, and issuance.

## 8. Pritchard Street Drainage Improvements

- Project scope increased to include streetscape elements, pedestrian connectivity, street lighting and traffic calming evaluation.
- Growth Management and Stormwater Pre-Application meeting held 10/17/23. Updated 95% design received from consultant, design review complete, and comments discussed with consultant. Permit applications have been submitted. DRC Public Project was held 3/28/2024.
- Design Review meeting and field walk with consultant to discuss/review comments on 95% design submission held 5/30/24. 100% design completed and review comments issued to Consultant, pending Public Meeting comments. Responses to permitting agencies in process.
- Met with School District on 9/6/24 to discuss project status, needed easements, schedule, project phasing needs, and parking lot Cost Share Agreement (to be drafted).
- Presentation to School District Operations Committee performed 9/19/24 to give overview of project work, easement acquisition needs, project schedule, project

- phasing needs, and parking lot Cost Share Agreement (to be drafted, finalized and signed by parties).
- Planning for Project Public Meeting in process.
- **Next Steps**
  - Coordinate approval for proposed improvements with Beaufort County School District and Beaufort County on pool operation impacts.
  - Consultant addressing design and permit review comments for 100% design submittal.
  - Follow-up/complete permitting submissions and bid document formulation.
  - Continue Dominion street lighting agreement coordination.
  - Coordinate stakeholder meeting for Pritchard St. residents, anticipated in late October 2024.

## **PARK DEVELOPMENT**

### **1. Oyster Factory Park**

- Civil construction and landscape of parking area and event area are **complete**.
- Contractor completing final punch list items for the event area and providing quotes for additional services for the repairs to the existing pavilion, adding steps and access drive stabilization.
- Assessing drainage improvement alternatives for construction.
- **Next Steps**
  - Prepare plans for the restroom expansion and other FY25 improvements.

### **2. Oscar Frazier Park**

- Rotary Center hardscape improvements **complete** and under 1 year maintenance agreement.
- Obtained SCDES permit for Splash Pad on 1/9/24 and began construction on 7/15/24.
- **Next Steps**
  - Complete construction of splash pad and landscaping in October.
  - Obtain quotes for shade structure at the playground.

### **3. New Riverside Barn/Park**

- JS Construction **completed** phase 1 site construction in November 2023.
- The contract has been executed with Nix Construction for Construction Manager at Risk Services with a GMP for Phase 2 (barn, restroom, playground, and common areas).
- Restrooms are nearing completion.
- Steel structures / trellis in the restroom area are **installed**.
- Large and small pavilions are erected. The playground drainage is **complete**.
- Sidewalks and drainage at playground area are **complete**.
- Playground equipment installation is done. Poured in place preparation has started.
- All barn framing has been completed. The building is dried in. Mechanical rough in has started.
- Well for future irrigation has been **installed**.
- Irrigation throughout the park has started.

- Dominion installed all light poles. They are energized and working.
  - **Next Steps**
    - Nix Construction to continue all the above.
- 4. New Riverside Village**
- Lighting contract approved at 4/9/24 Town Council.
  - Design plan approved by POA/Developer.
  - **Installed** trellis swings, dog stations, trash cans and lighting conduit.
  - Rules sign approved at 8/13/24 Town Council. Under fabrication.
  - **Next Steps**
    - Continue design of wayfinding signage plan.
    - Dominion light pole installation scheduled for fall 2024.
- 5. Miscellaneous Park Improvements**
- Shade sail installation was completed at Buckwalter Place Park playground.
  - **Next Steps**
    - Continue design of landscape and shade structure enhancements at various town parks in 2025.
- 6. Buckwalter Place Park Improvements**
- Plans presented to Town Council on 1/16/24.
  - Conceptual landscaping plan **complete**.
  - Sabal palm installation **complete**.
  - **Next Steps**
    - Finalize hardscape plans for FY25 scope.
    - Continuing design, construction drawings of bathroom renovation.
    - Discussion of planned park improvements scheduled for 10/8/24 Town Council meeting.

## **TOWN FACILITIES AND MISCELLANEOUS PLANNING**

- 1. Town of Bluffton Affordable Housing Project – The May**
- **Next Steps**
    - Provide financial assistance to joint venture partner for planning, design and permitting of Affordable/Workforce Housing at 1095 May River Road.
    - Staff continues to review progress and applications for payment.
- 2. Law Enforcement Center Facility Improvements**
- PD **completed** improvements to evidence room.
  - PS to add AON system to HVAC.
  - **Next Steps**
    - Begin design in FY25 for impound lot and canine facility. Further work pending results of space needs assessment by Creech and Associates.

### 3. Sarah Riley Hooks Cottage

- Meadors Architectural Design is underway and planned to be complete in
- September final site plan complete and distributed to engineers for final design.
- Civil engineering, structural engineering and landscape design is underway and planned to be complete in 2024.
- Presented plans for a pre-application meeting on 8/16/2024.
- **Next Steps**
  - Update survey and prepare an exempt plat for lot recombination.
  - Begin restoration construction of cottage in FY25.
  - Begin site and landscape development construction in FY26.

### 4. Ghost Roads

- Surveying and easement exhibits are **complete**.
- Bridge Street Quit Claim Deeds are **complete**. Pritchard and Colcock Streets Quit Claim Deeds are 99% **complete**.
- Staff is currently working with Lawrence, Lawton, Green, Pope, Allen, and Water Street property owners to obtain Quit Claim Deeds.
- **Next Steps**
  - Continue acquisition of remaining Quit Claim Deeds for Historic District Ghost Roads or have legal initiate quiet title proceedings.

### 5. Document Management

- RFP contract was awarded in March 2022.
- Electronic Document Management system is live.
- Documents for 6 departments have been transitioned to DMS.
- **Next Steps:**
  - Historical documents for the remaining departments will transition through FY26.

### 6. Network Infrastructure

- Replaced core switches at Town Hall and the Law Enforcement Center.
- Replaced two VMWare hosts for a more stable server environment.
- Migration of Munis and Energov systems to a hosted environment completed.
- Implemented ExecuTime to replace Intime.
- **Next Steps:**
  - Replacing two more VMWare hosts.

## **WATERSHED MANAGEMENT UPDATE**

### **1. Administrative Update**

- Staff continues to update ClearGov for Strategic Planning.
- Wetlands Protection and Resiliency Ordinances:
  - Staff modified the Wetlands Ordinance Expression of Interest (EOI) for wetland and resiliency protections. The original proposal and project costs provided by a Town's Master Service Agreement (MSA) firm has been modified for a second time following on-going discussions with staff. Staff is reviewing all documents.
  - Watershed Management Division staff met with Growth Management personnel to discuss the Wetlands and Resiliency Ordinance proposed scope of work on 9/04/24.

### **2. SC Department of Environmental Services May River Shellfish Harvesting Monitoring Data Year-to-Date and May River Shellfish Harvesting Status Exhibit – *Attachments 1 and 1a***

### **3. May River Watershed Action Plan Implementation Summary – *Attachment 2***

- Water Environmental Consultants (WEC) has provided staff with final reports for flow monitoring work in the Rose Dhu Creek, Stoney Creek, and Palmetto Bluff subwatersheds. These final reports are currently under review.
- Dr. Tye Pettay, University of South Carolina Beaufort (USCB) Water Quality Laboratory, is conducting a statistical review of the Town's water quality monitoring data to better understand the Town's water quality results and improve day-to-day management decisions.
- Staff drafted a Comprehensive Water Quality Monitoring Program Plan. This document is currently under internal review prior to finalization.

### **4. Resiliency**

- Established a Memorandum of Agreement (MOA) with College of Charleston executed to conduct the Resiliency Analysis. This analysis will include modeling storms and sea level rise throughout Town watersheds, a review of the Town's UDO, Municode, SC Code of Ordinances, and Stormwater Design Manual, and stakeholder engagement through surveys and events.
  - Two public engagement events have been held to date. The next engagement event will be held 10/19/24 at Historic Bluffton Arts and Seafood Festival.
  - Staff provided the College of Charleston with Resiliency Analysis GIS data on 07/23/24. This data included shapefiles for future land use, watershed information, and stormwater infrastructure.
  - The public flooding survey is available online at <https://arcg.is/10a5Sn>.
- Staff will provide a resiliency update to Council during Strategic Planning.
- Staff attended two (2) virtual National Oceanic and Atmospheric Administration (NOAA) training sessions called Steps to Resilience for the Government Champion on 9/11/24 and 9/18/24.
- Staff attended the Regional Resilience Accelerator Workshop on 9/12/24.



5. **Municipal Separate Storm Sewer System (MS4) Program Update**
  - Staff are currently editing the Stormwater Management Plan with an anticipated date of 11/01/24 for submittal to SC Department of Environmental Services (SCDES).
  - Staff received feedback on the Southern Lowcountry Stormwater Design Manual from engineering firms as part of its public comment period and staff are working to incorporate these edits.
  
6. **MS4 Minimum Control Measure (MCM) - #1 Public Education and Outreach, and MS4 MCM - #2 Public Participation and Involvement**
  - Staff held an informational session for HOA/POAs on stormwater management on 8/19/24.
  - The May River Watershed Action Plan Advisory Committee (WAPAC) meeting scheduled for 9/26/24 was canceled due to a lack of agenda items. – **Attachment 3**
  
7. **MS4 MCM – #3 Illicit Discharge Detection and Elimination**
  - Stormwater Infrastructure Inventory Map – **Attachment 4a**
  - *E. coli* Concentrations Trend Map – **Attachment 4b**
  - Monthly, Microbial Source Tracking (MST) Maps – **Attachments 4c and 4d**
    - SC Department of Environmental Services (SCDES) collects MST samples for the Town concurrently with their routine shellfish harvesting water quality sampling at stations 19-19, 19-19A, 19-19B, 19-19C, and 19-24. SCDES collected samples on 9/09/24. The human genetic marker was not detected in any of the samples collected.
  - Illicit Discharge Investigations – **Attachment 4e**
  
8. **MS4 MCM – #4 Construction Site Stormwater Runoff Control – Attachment 5**
  
9. **MS4 MCM – #5 Stormwater Plan Review and Related Activity – Attachment 6**
  
10. **MS4 MCM – #6 Good Housekeeping (Staff Training/Education)**
  - Staff attended NOAA Social Science Basics for Coastal Managers Training on 9/16/24.
  
11. **MS4 MCM – #6 Good Housekeeping (Ditch, Drainage and Roadside Maintenance)**
  - Public Services performed weekly street sweeping on Calhoun Street, Highway 46, Bruin Road, May River Road, Pin Oak Street, and curbs and medians on Simmonsville and Buck Island Roads.
  - Performed ditch inspections.
    - Arrow ditch (2,569 LF)
    - Red Cedar ditch (966 LF)
    - Buck Island roadside ditch (15,926 LF)
    - Simmonsville roadside ditch (13,792 LF)
  - Ongoing roadside mowing, litter clean-up and maintenance of Masters' Way, McCracken Circle, Hampton Parkway, Buck Island and Simmonsville Roads, Goethe Road, Shults Road, Jason and Able Streets, Whispering Pine Road, May River Road, and Eagles Field.

- 12. Citizen Drainage, Maintenance, and Inspections Concerns Map – Attachment 7**
- 13. Citizen Request for Watershed Management Services & Activities – Attachment 8**

### **Attachments**

1. SCDES Shellfish Harvesting Monitoring Data Year-to-Date
  - a. SCDES May River Shellfish Harvesting Status Exhibit
2. May River Watershed Action Plan Implementation Summary
3. MS4 Minimum Control Measures #1 and #2 – WAPAC Cancellation Notice 09/26/24
4. MS4 Minimum Control Measure #3 – Illicit Discharge Detection and Elimination
  - a. Stormwater Infrastructure Inventory Map
  - b. *E. coli* Concentrations Trend Map
  - c. Microbial Source Tracking Trend Map – All Sources
  - d. Microbial Source Tracking Map – Human Sources
  - e. Illicit Discharge Investigations
5. MS4 Minimum Control Measure #4 – Construction Site Stormwater Runoff Control
6. MS4 Minimum Control Measure #5 – Stormwater Plan Review and Related Activity
7. Citizen Drainage, Maintenance, and Inspections Concerns Map
8. Citizen Request for Watershed Management Services and Activities Map
9. CIP Master Project Schedules

SCDES Shellfish Harvesting Monitoring Data Year-to-Date  
 May River Headwaters Shellfish Stations

	19-19				19-19A				19-19B				19-19C				19-24				19-16			
	2021	2022	2023	2024	2021	2022	2023	2024	2021	2022	2023	2024	2021	2022	2023	2024	2021	2022	2023	2024	2021	2022	2023	2024
	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)
December	79.0	33.0	33.0		49.0	49.0	33.0		4.5	17.0	7.8		17.0	49.0	13.0		6.8	6.8	7.8		7.8	13.0	17.0	
November	33.0	33.0	13.0		33.0	13.0	2.0		7.8	7.8	4.5		4.0	4.5	4.5		4.5	6.1	2.0		2.0	13.0	4.5	
October	49.0	23.0	33.0		26.0	46.0	23.0		13.0	13.0	17.0		23.0	23.0	33.0		23.0	11.0	2.0		17.0	14.0	6.8	
September	33.0	540.0	23.0		11.0	350.0	13.0		17.0	350.0	13.0		13.0	170.0	7.8		2.0	79.0	17.0		11.0	33.0	13.0	
August	49.0	23.0	23.0	33.0	49.0	23.0	49.0	23.0	23.0	11.0	6.8	23.0	49.0	13.0	13.0	49.0	14.0	17.0	23.0	49.0	14.0	11.0	2.0	13.0
July	350.0	920.0	350.0	31.0	64.0	49.0	920.0	31.0	79.0	95.0	70.0	32.0	33.0	130.0	49.0	32.0	33.0	23.0	33.0	33.0	13.0	46.0	17.0	32.0
June	49.0	13.0	14.0	7.8	79.0	4.5	7.8	7.8	13.0	11.0	23.0	6.8	17.0	2.0	13.0	4.5	22.0	1.8	33.0	2.0	2.0	9.3	13.0	2.0
May	2.0	4.5	23.0	27.0	49.0	4.5	33.0	22.0	23.0	4.0	17.0	23.0	23.0	1.8	13.0	17.0	23.0	1.8	33.0	7.8	7.8	2.0	21.0	4.0
April	33.0	4.5	170.0	49.0	23.0	4.5	130.0	17.0	22.0	1.8	110.0	17.0	17.0	2.0	70.0	4.0	7.8	1.8	NS	11.0	2.0	1.8	7.8	23.0
March	33.0	33.0	23.0	49.0	11.0	23.0	49.0	31.0	17.0	2.0	17.0	11.0	13.0	4.5	17.0	4.5	2.0	2.0	17.0	22.0	2.0	2.0	17.0	4.5
February	79.0	23.0	540.0	49.0	70.0	31.0	350.0	49.0	79.0	17.0	240.0	11.0	23.0	22.0	240.0	22.0	7.8	2.0	33.0	7.8	6.8	11.0	33.0	11.0
January	17.0	49.0	33.0	49.0	17.0	22.0	33.0	23.0	13.0	33.0	13.0	4.5	23.0	7.8	33.0	4.5	17.0	7.8	7.8	7.8	7.8	7.8	4.5	2.0
** Truncated GeoMetric Mean	36.0	40.0	38.0	37.0	26.0	28.0	30.0	27.0	18.0	18.0	17.0	16.0	15.0	14.0	16.0	14.0	10.0	9.0	9.0	9.0	8.0	9.0	8.0	8.0
** Truncated 90th Percentile	139.0	192.0	211.0	185.0	69.0	91.0	152.0	145.0	58.0	72.0	77.0	74.0	39.0	54.0	71.0	76.0	35.0	41.0	44.0	42.0	33.0	32.0	26.0	29.0

NS = No Sample

**SCDES Regulatory Requirements:**

Geometric Mean ≤ 14

90th Percentile ≤ 43

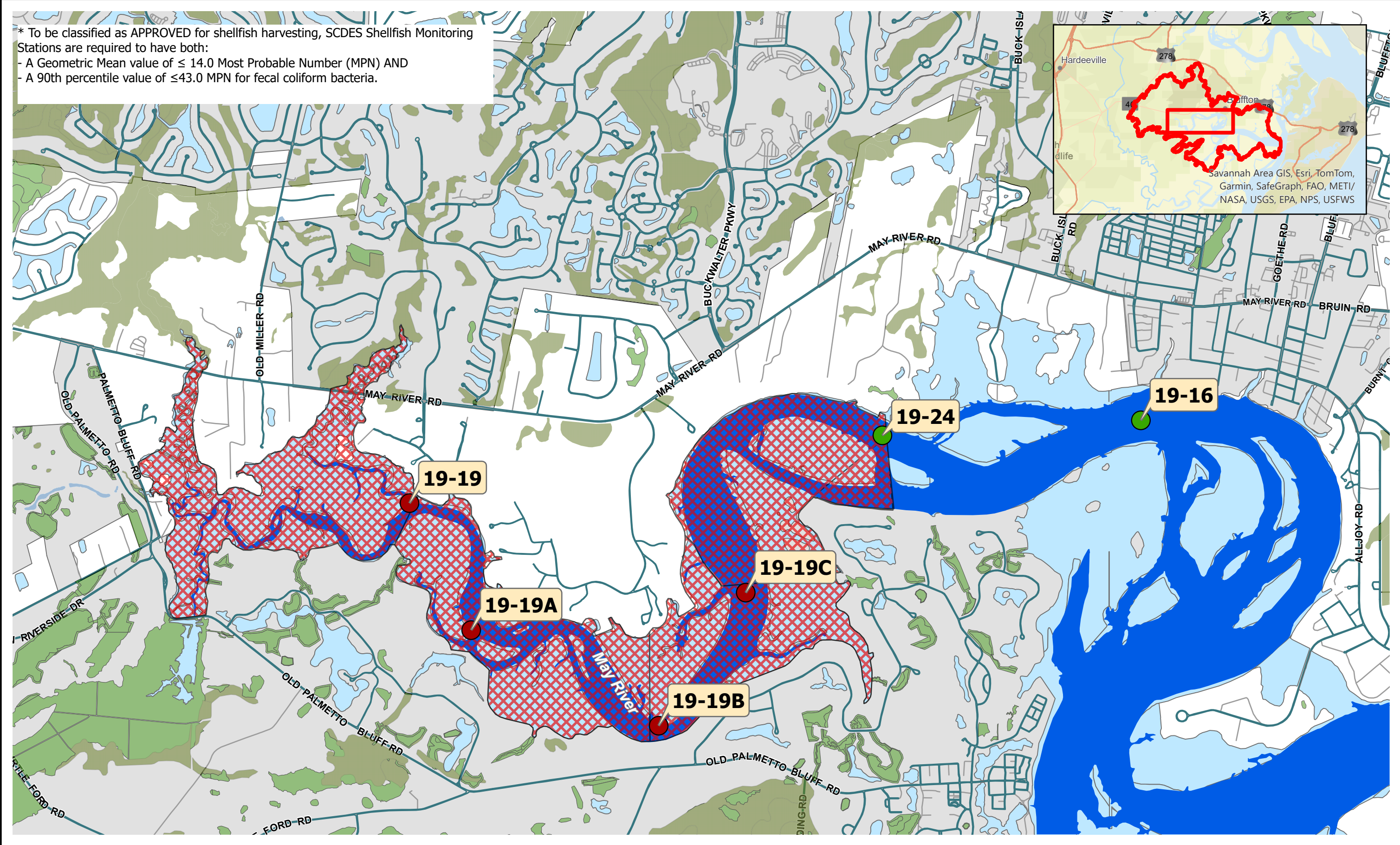
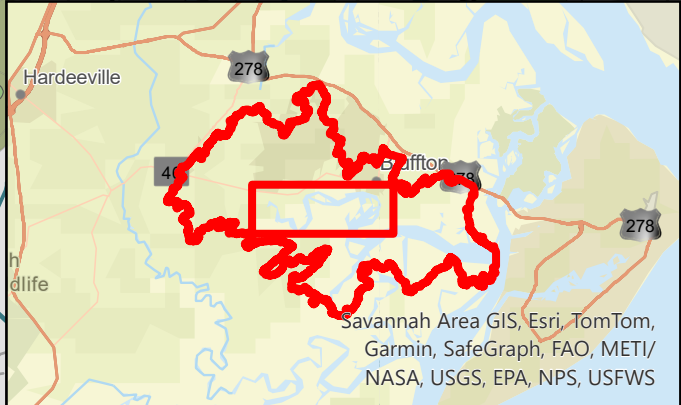
\*\* Town staff calculations utilizing SCDES statistics









Note:

December 2024 ends the data collection period for 2025 shellfish harvesting season.

2024 fecal coliform data is part of the 2025 classification data collection period.

\* To be classified as APPROVED for shellfish harvesting, SCDES Shellfish Monitoring Stations are required to have both:  
 - A Geometric Mean value of  $\leq 14.0$  Most Probable Number (MPN) AND  
 - A 90th percentile value of  $\leq 43.0$  MPN for fecal coliform bacteria.



-  Town Bluffton Jurisdiction
-  Beaufort County Jurisdiction
-  Restricted 2024/2025 Shellfish Season
-  Streets
-  Water
-  Wetlands
-  Open Shellfish Monitoring Station
-  Closed Shellfish Monitoring Station

**Town of Bluffton**  
 Beaufort County, SC  
**SCDES SHELLFISH**  
**HARVESTING STATUS**

0 0.17 0.35 0.7 Miles  
 Date: 7/22/2024 1:16 PM



## May River Watershed Action Plan Update & Modeling Report Implementation Summary

### **Background**

- *May River Watershed Action Plan Update & Modeling Report* (Action Plan Update & Modeling Report) was completed November 2020.
- Town Council adopted the Action Plan Update & Modeling Report as a supporting document to the Comprehensive Plan in February 2021.
- The Action Plan Update & Modeling Report included the development of watershed-water quality models (WQ Model) for the four (4) May River Headwaters subwatersheds (Stoney Creek, Rose Dhu Creek, Duck Pond, and Palmetto Bluff) where the shellfish impairments are located.
- The purpose of the modeling effort was to better understand fecal coliform (FC) fate and transport in the Headwaters subwatersheds to develop strategies ultimately intended to open all shellfish stations to harvesting. To capture the variety of storm events and environmental conditions, the Project Team developed a continuous simulation of both water quantity and quality.
- The Action Plan Update & Modeling Report included new water quality improvement projects resulting from the WQ Model. Additionally, the potential fecal bacteria reduction benefits of septic to sewer conversion in the four (4) Headwaters subwatersheds was modeled.

### **May River Watershed Action Plan Impervious Restoration Water Quality Projects**

- Initial site investigations are complete for 8 of the 11 participating project sites.
- Palmetto Pointe Towns, Lowcountry Community Church and Apartment One declined to participate in the Program at this time.
- Geotechnical investigations and reports for each of the remaining 8 original have been completed.
- Fee-in-Lieu and Enterprise Fund establishment/administration Policy Document has been completed and pending Finance final review.
- Initial Property Owner contacts for the selected 15 Additional Sites within municipal limits have been made and concept plan development is in process.
- **Next Steps**
  - Preliminary Design of each of the 8 original sites in process.
  - Fee-in-Lieu Document under final review.
  - Adoption of related Master Fee Schedule items.

### **Septic to Sewer Project: Stoney Creek/Palmetto Bluff Sewer Partnership**

- 2022 updated cost-estimate for the project from BJWSA is \$7.2 million + contingencies. BJWSA is the Project Manager.
- BJWSA awarded the RIA SCIPP grant in support of Stoney Creek/Palmetto Bluff Sewer Extension with the Town and Beaufort County.
- Finalized IGA with Town, County, and grant splitting sewer extension costs and BJWSA funding water extension costs.
- **Next Steps**
  - BJWSA continues with community outreach and design of the system.  
<https://bjwsa.org/251/Go2Sewer-for-a-Cleaner-Stoney-Creek>.

### **May River Watershed Action Plan Water Quality Program Status**

- The Microbial Source Tracking (MST) Laboratory has completed the development of additional MST genetic markers for dog, horse, deer, and bird in addition to human.
- Staff has completed data (precipitation, bacteria, continuous flow, and intermittent flow) collection in the four (4) May River Headwaters subwatersheds.
- Water Environmental Consultants (WEC) has deployed a water elevation gauge on the Palmetto Bluff Bridge for the Duck Pond subwatershed.
- **Next Steps**
  - Implement additional MST markers in strategic May River Watershed water quality monitoring locations.
  - WEC final reports for the May River Headwaters (Stoney Creek, Rose Dhu Creek, and Palmetto Bluff subwatersheds) anticipated to be received prior to the end of September 2024. Once received, staff will review.
  - WEC Duck Pond water elevation data collection until January 2025. WEC final report following data collection.
  - Procure services for calibration of the Town's WQ Model in the May River Headwaters.





# **PUBLIC NOTICE**

The May River Watershed Action Plan Advisory Committee  
(WAPAC) meeting scheduled for

**Thursday, September 26, 2024**

has been

**CANCELLED**

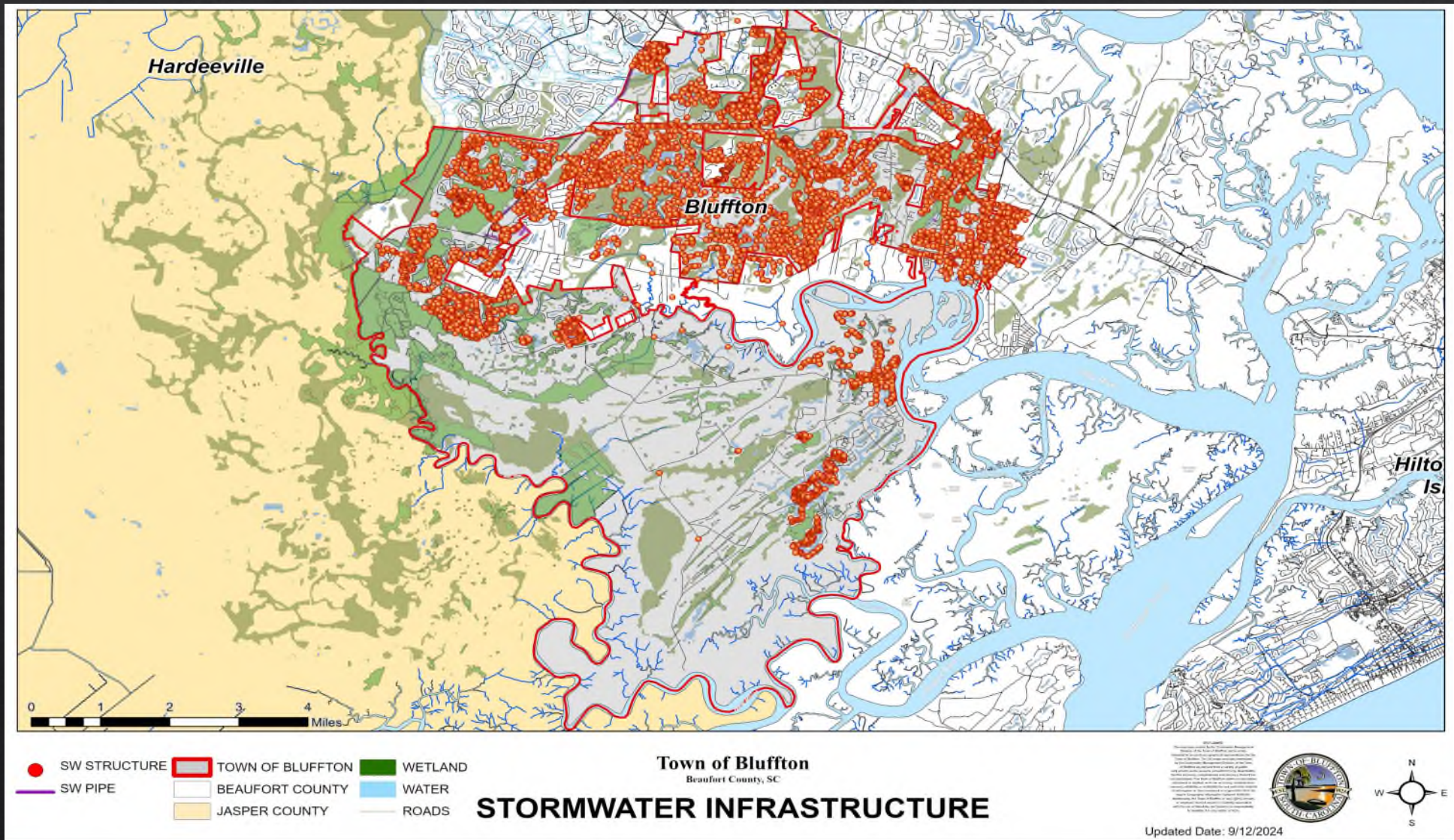
due to lack of agenda items.

The next meeting is scheduled for

**Thursday, October 24, 2024**

If you have questions, please contact  
the Watershed Management Division  
at: 843-540-6958

# MS4 Minimum Control Measure #3 – IDDE (Illicit Discharge Detection & Elimination): Stormwater Infrastructure Inventory



## Stormwater Infrastructure Inventory Collection Status

Collection Totals

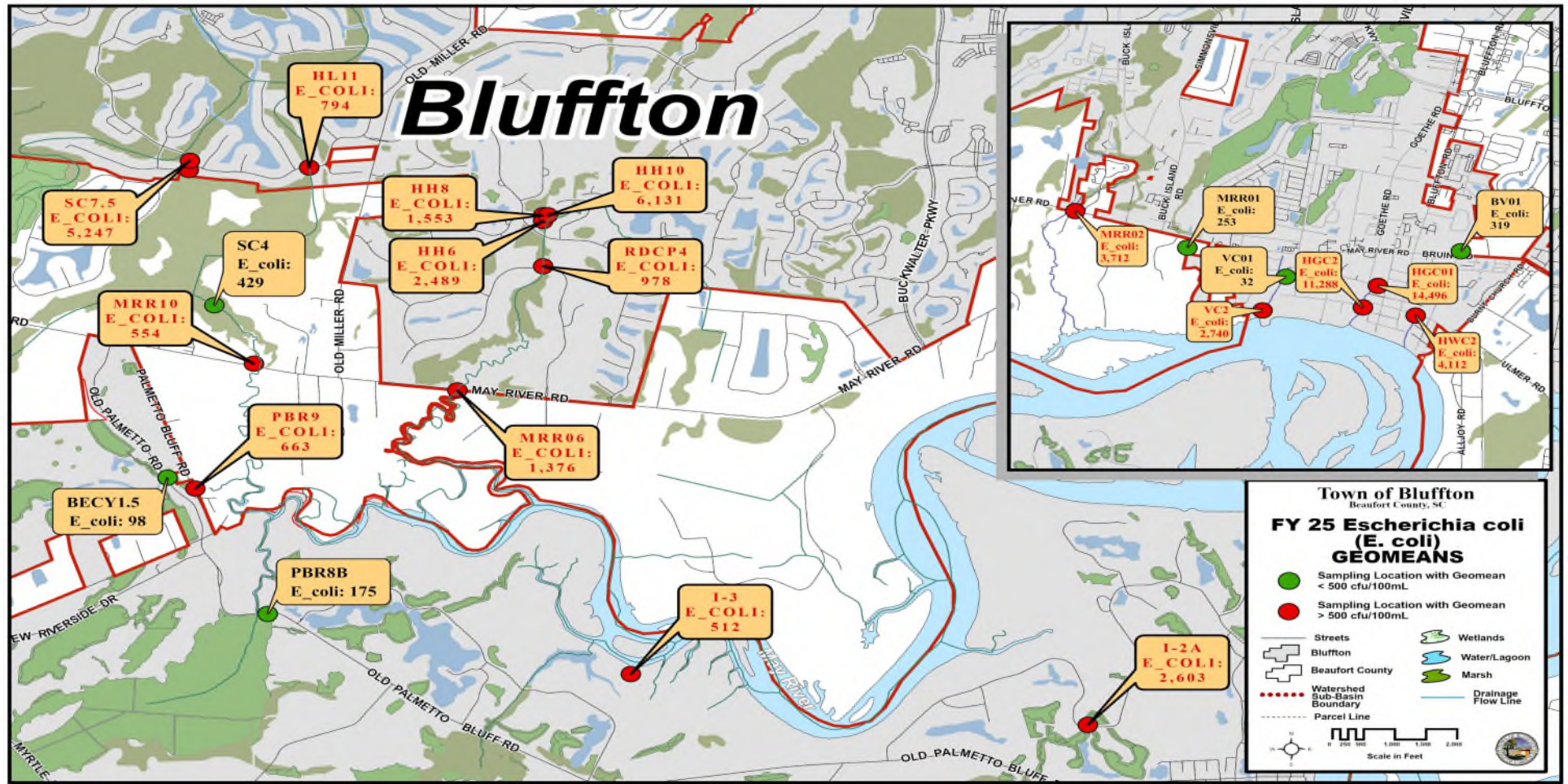
17,509

FY 2025 YTD

275



# MS4 Minimum Control Measure #3 – IDDE: *E. coli* Concentrations Trend Map

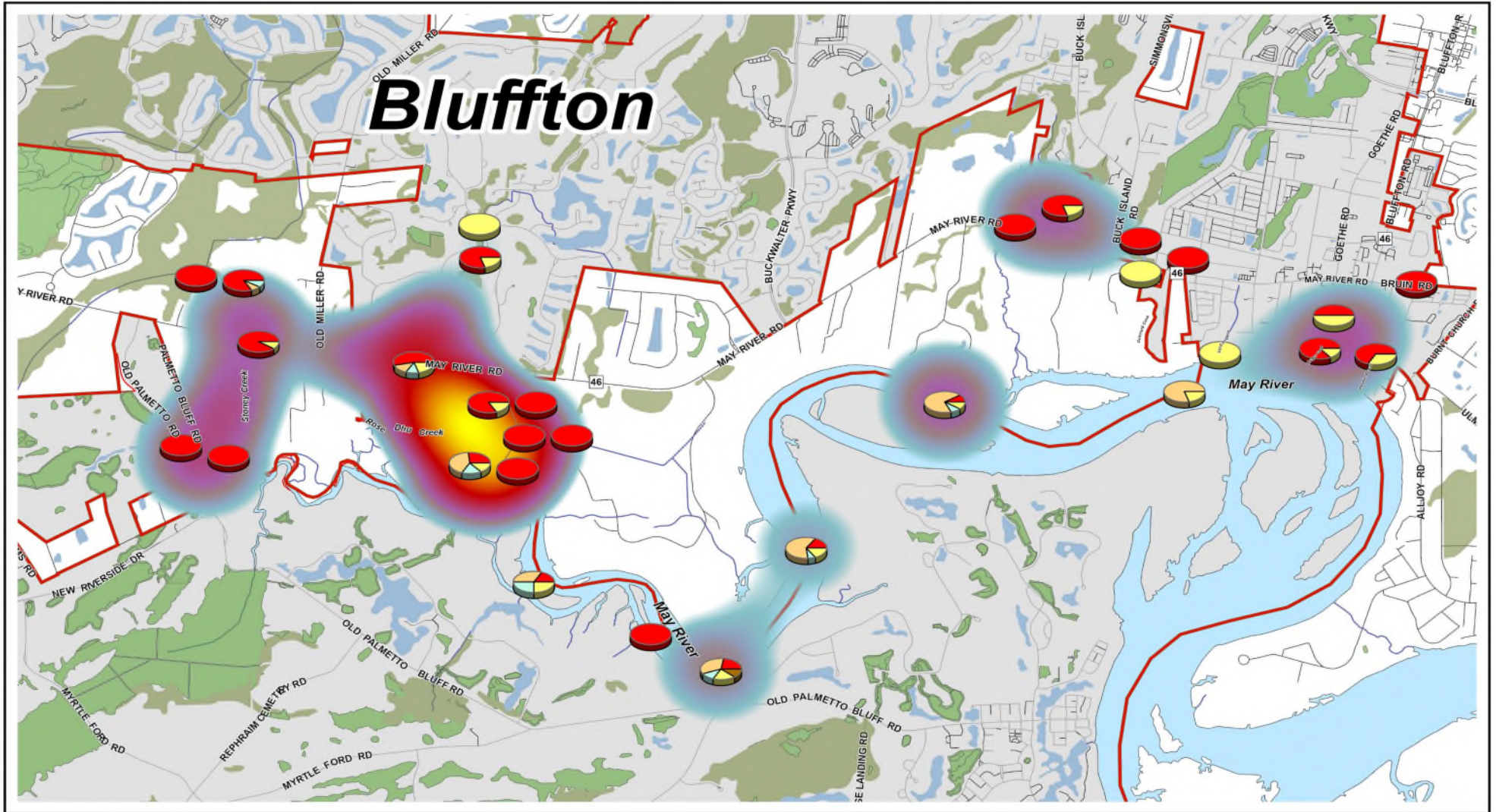


	USCB Water Quality Samples	Microbial Source Tracking Samples	MS4 Quarterly Samples Collected
FY 2025 YTD Totals	99	19	27
FY 2024 Totals	620	62	209
FY 2023 Totals	584	108	108

Totals include only samples submitted for laboratory analysis, and not *in situ* parameters.



# MS4 Minimum Control Measure #3 – IDDE: Microbial Source Tracking (MST) Trend Map



MST Sampling Results

- Human
- Bird
- Deer
- Dog
- Horse

MST Sampling Sites

Intensity of samples

- Representative of Low Sampling Distribution
- Representative of High Sampling Distribution

## MICROBIAL SOURCE TRACKING (MST) LOCATIONS

Samples at Sites With Positive Detection  
and the Intensity of Positive Hits

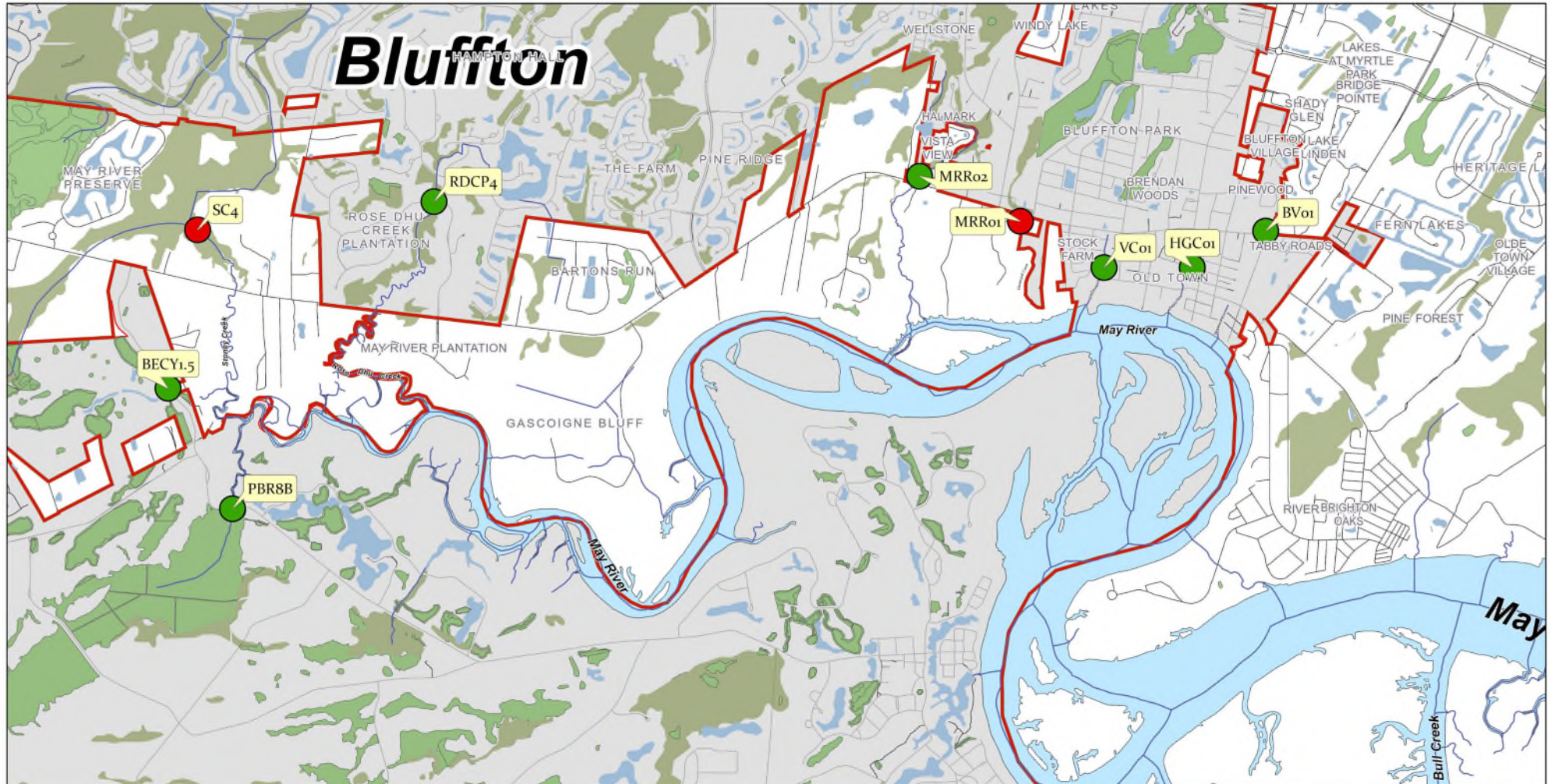
Town of Bluffton  
Beaufort County, SC

- Town Jurisdiction
- Beaufort County
- Drainage Flow Lines

Updated Date: 9/12/2024



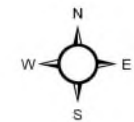
# MS4 Minimum Control Measure #3 – IDDE: Microbial Source Tracking (MST) Map – Human Sources



- MST Sampling Location Without Human Genetic Marker Detection
- MST Sampling Location With Human Genetic Marker Detection
- Flowline
- Street
- ☒ Town Jurisdiction
- ☒ County Jurisdiction

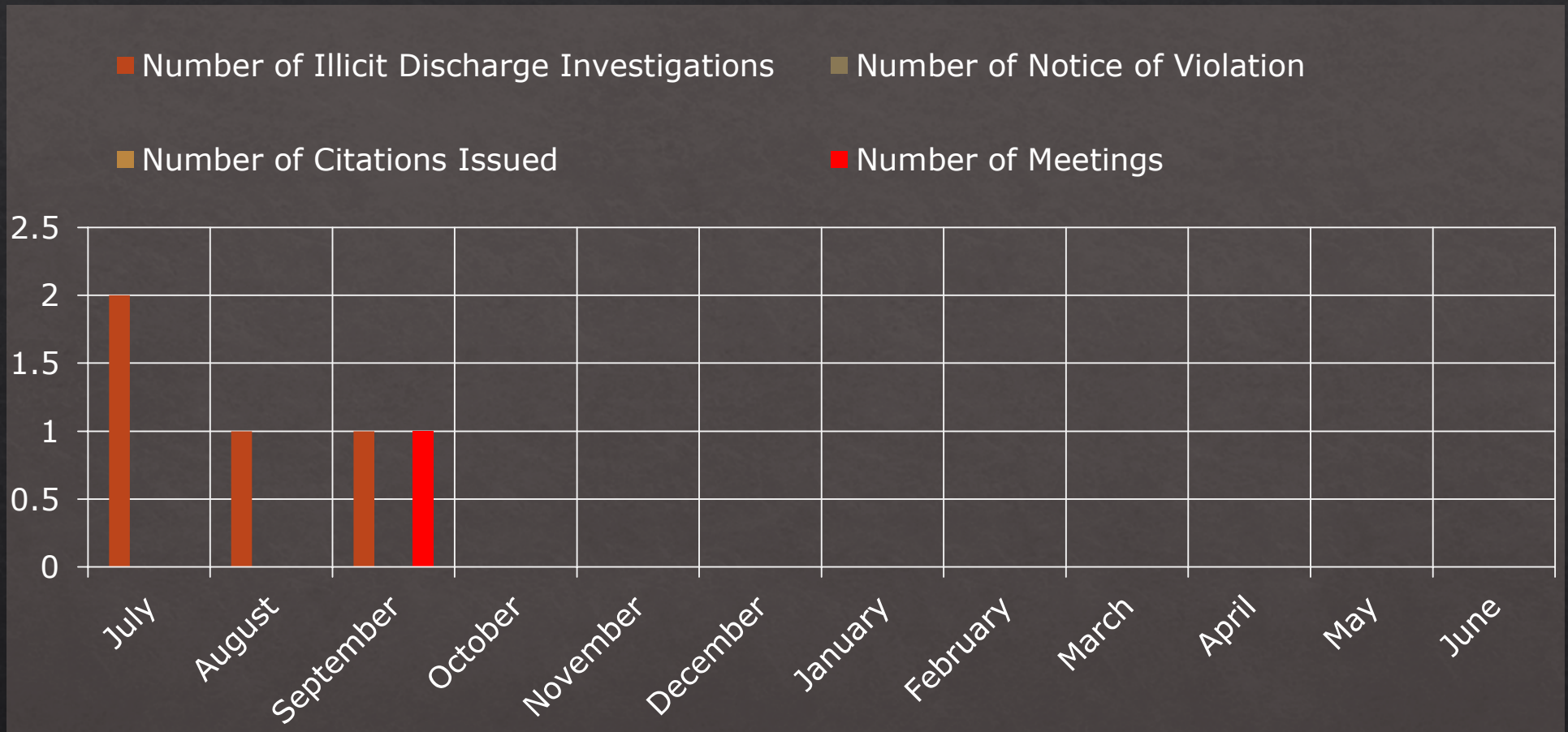
## MICROBIAL SOURCE TRACKING LOCATIONS Sampling Results September 14, 2024 MS4 Sampling

Town of Bluffton  
Beaufort County, SC



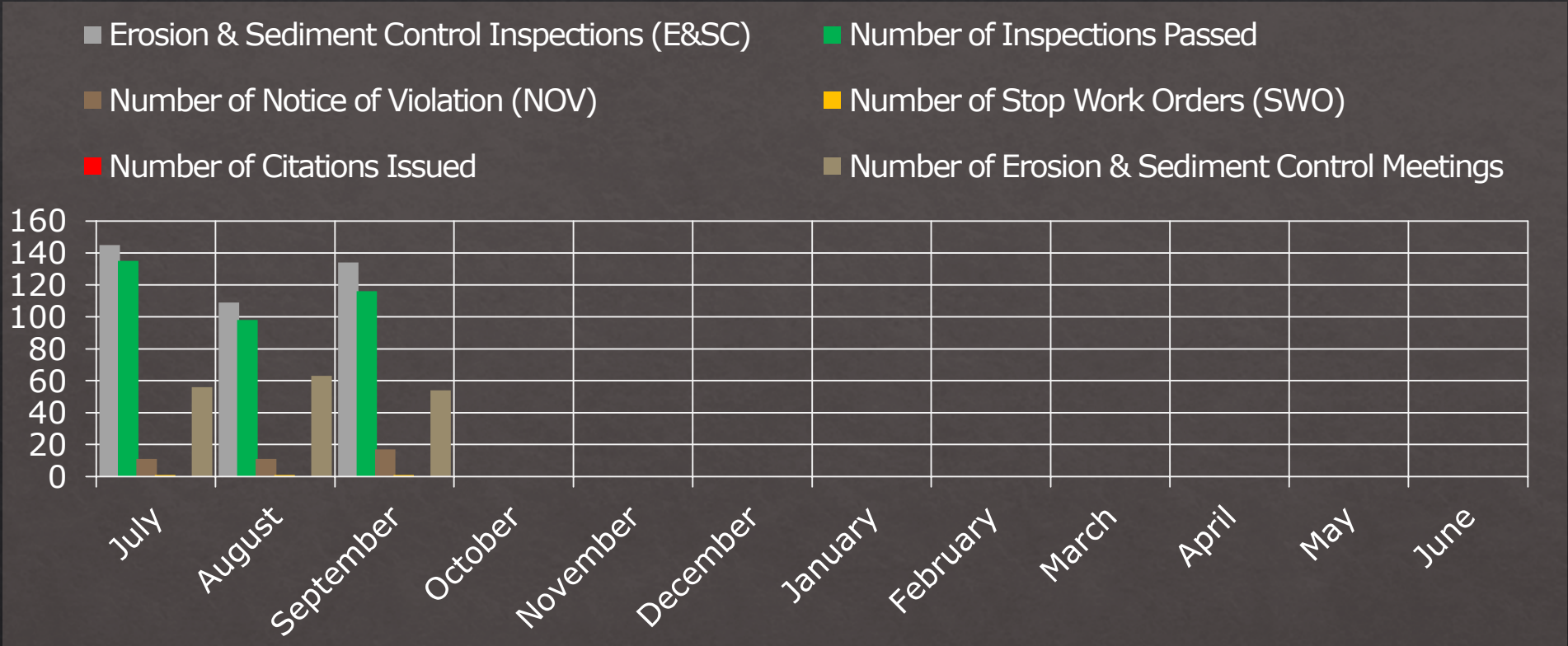


# MS4 Minimum Control Measure #3 – IDDE: Illicit Discharge Investigations



	Number of Illicit Discharge Investigations	Number of Notices of Violation Issued	Number of Citations Issued	Number of Meetings
FY 2025 YTD Totals	4	0	0	1
FY 2024 Totals	33	15	15	35
FY 2023 Totals	27	8	1	20

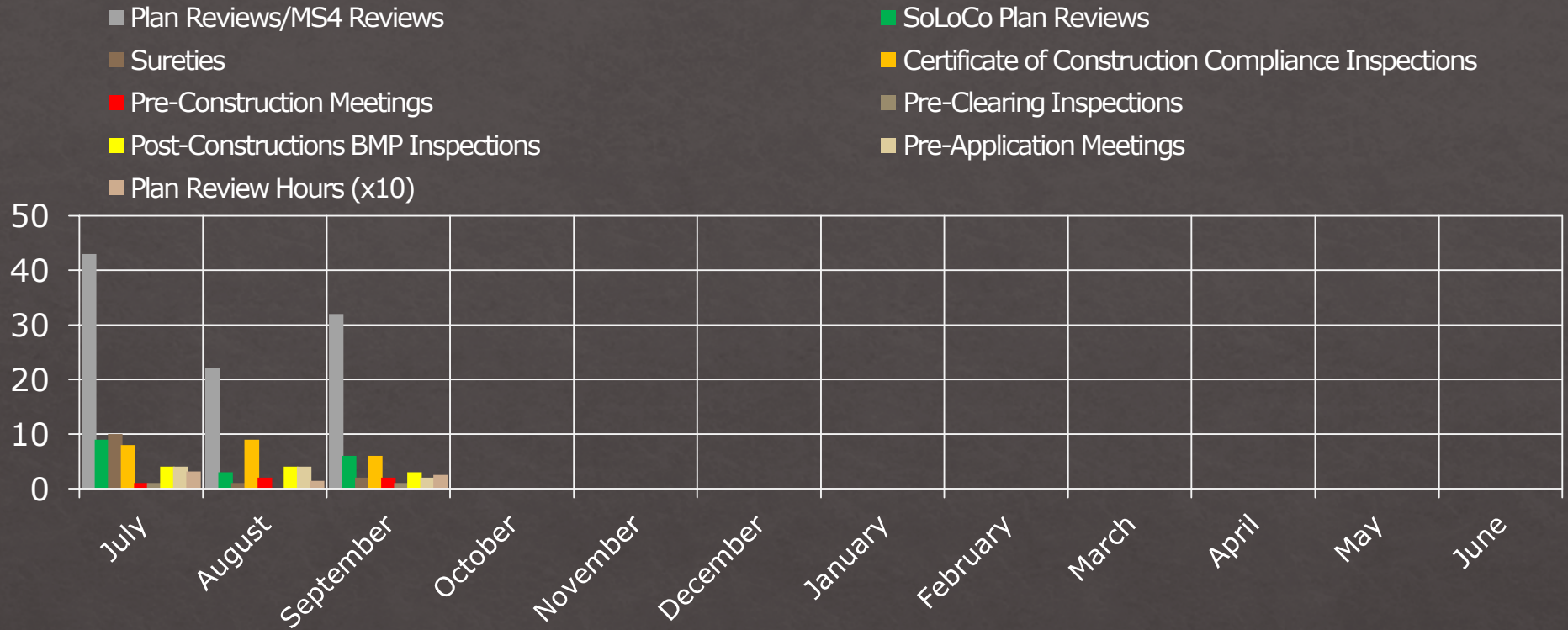
## MS4 Minimum Control Measure #4 - Construction Site Stormwater Runoff Control



	Number of Sediment & Erosion Control Inspections	Number of Inspections Passed	Number of NOVs Issued	Number of SWO Issued	Number of Citations Issued	Number of E&SC Meetings
FY 2025 YTD Totals	388	349	39	3	0	173
FY 2024 Totals	1,875	1,767	103	10	0	526
FY 2023 Totals	2,321	2,030	266	26	0	577



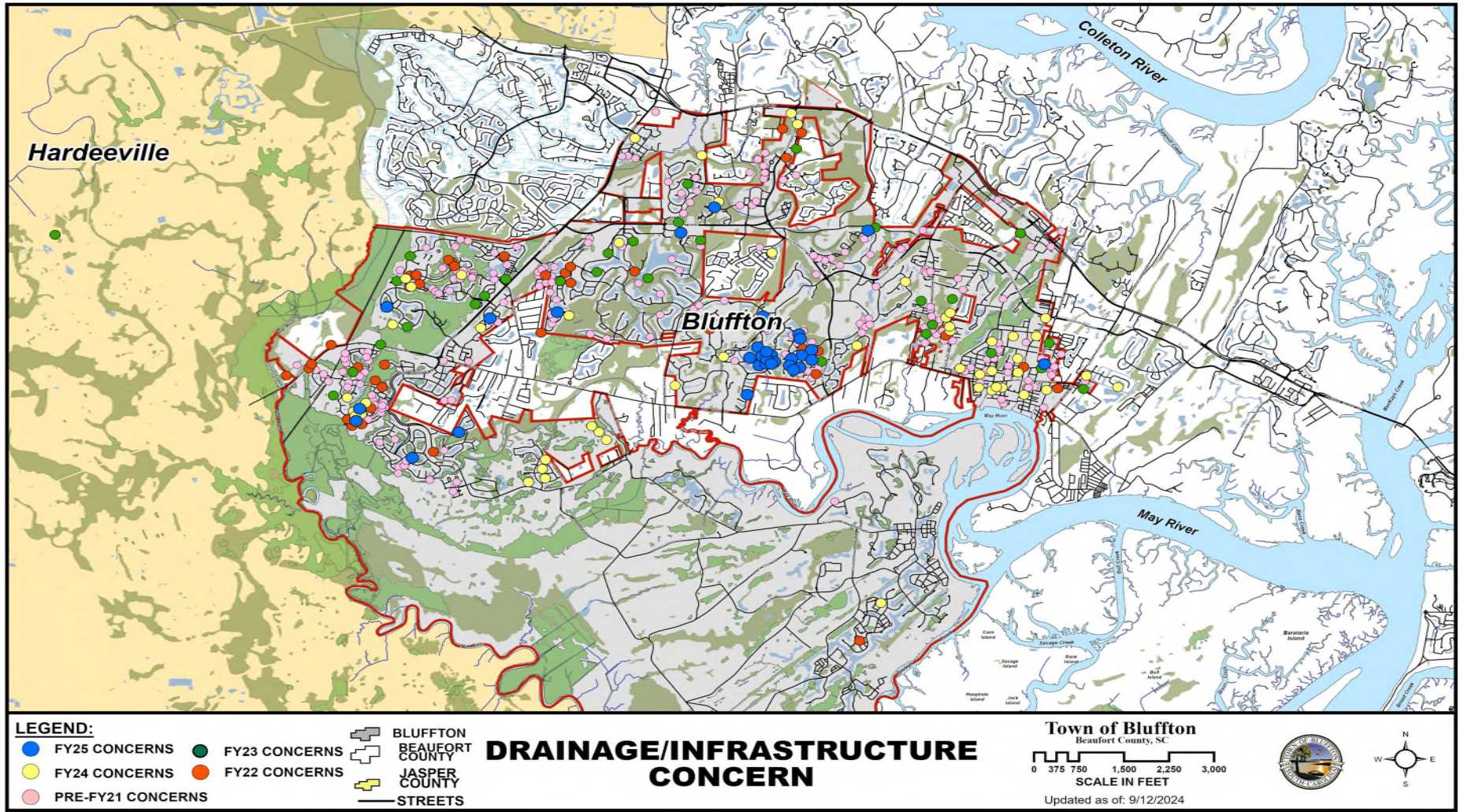
# MS4 Minimum Control Measure #5 Stormwater Plan Review & Related Activity



	Plan Reviews MS4 Reviews	SoLoCo Plan Reviews	Sureties	CCC Inspections	Pre-Construction Meetings	Pre-Clearing Inspections	Post Construction BMP Inspections	Pre-Application Meetings	Total Plan Review Hours
FY 2025 YTD	97	18	13	23	5	2	11	10	70.50 Hrs.
FY 2024 Totals	330	63	27	69	37	28	48	47	283 Hrs.
FY 2023 Totals	297	67	42	40	15	13	45	50	386 Hrs.



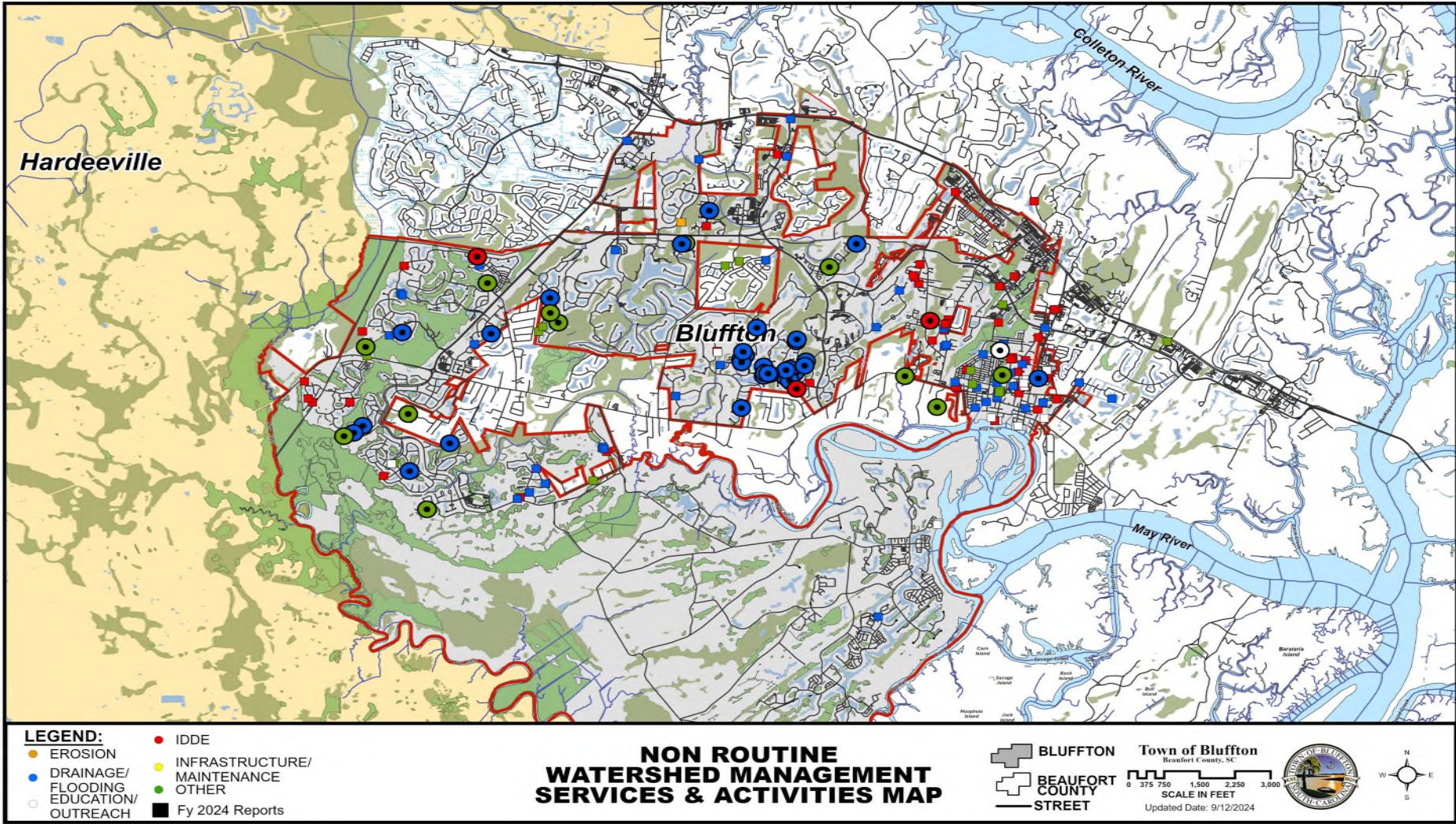
# Citizen Drainage, Maintenance and Inspections Concerns Map



	Number of Drainage Concerns Investigated	Number of Meetings
FY 2025 YTD Totals	7	0
FY 2024 Totals	47	13
FY 2023 Totals	61	52



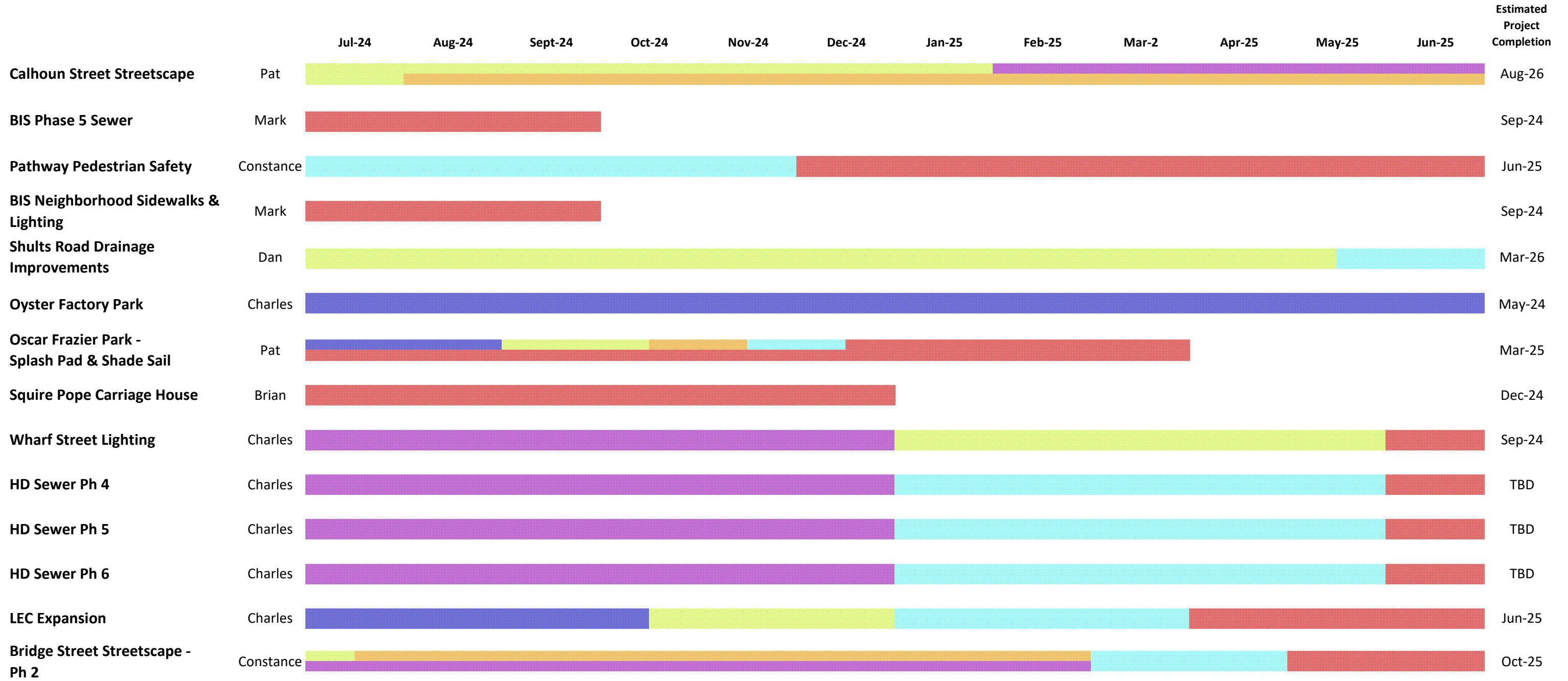
# Citizen Request for Watershed Mngt. Services & Activities Map



	Number of Citizen Requests Investigated	Number of Meetings
FY 2025 YTD Totals	21	4
FY 2024 Totals	137	40
FY 2023 Totals	46	23



# FY25 CIP Master Project Schedule



■ Planning & Conceptual Design    
 ■ Final Design & Construction Documents    
 ■ Permitting    
 ■ Easement & Land Acquisition    
 ■ Bidding & Contracts    
 ■ Construction

\*SUBJECT TO CHANGE\*

# FY25 CIP Master Project Schedule



■ Planning & Conceptual Design    
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\*SUBJECT TO CHANGE\*