



**Beaufort County Stormwater Utility**  
**120 Shanklin Road**  
**Beaufort, South Carolina 29906**  
**Voice (843) 255-2805**

September 14th, 2023

Stormwater Utility Board Packet

#### Table of Contents

1. Beaufort County Stormwater Manager Report – [Attached](#)
2. Stormwater Projects Report – [Attached](#)
3. Board Consolidation Update - [Attached](#)
4. Draft minutes from 08/16/2023 - [Attached](#)
5. 10.18.23 Agenda – [Attached](#)



**BEAUFORT COUNTY  
STORMWATER UTILITY**  
120 Shanklin Road  
Beaufort, South Carolina 29906  
Voice (843) 255-2805 Facsimile (843) 255-9436



August 2023

### **Utility Update**

1. Regionalization (SoLoCo)
  - a) Staff continues to support coordination on permitting standards.
    1. Amendments to the SoLoCo manual for adoption were approved at the 1/23/23 County Council meeting.
  - b) Staff continues to support other municipalities in their efforts to move forward with adoption.
    1. Town of Hilton Head is considering adopting SoLoCo.
2. Special presentation suggestions
  - a. Fall meeting location suggestions
3. Reminder: Annual Financial report from the Municipalities are due – Per the Intergovernmental Agreements for the Utility, each year on September 30<sup>th</sup>, the City and Towns are required to submit a summary of revenue and expenditures for the previous fiscal year.
  - a. Beaufort County – Not Received.
  - b. Town of Hilton Head Island – Received.
  - c. Town of Bluffton – Not Received.
  - d. Town of Port Royal – Not Received.
  - e. City of Beaufort – Not Received.
4. Staff working on wrapping up all items for the close out of fiscal year 2023, issuing new Purchase Orders, and signing all pertinent contracts.

### **Monitoring Update**

1. Lab Update (From Lab Manager Dr. Pettay)
  - i. No information at time of report.

### **Stormwater Implementation Committee (SWIC) Report**

1. CWI reports were completed by August 17<sup>th</sup> and sent out to municipalities on September 7<sup>th</sup>.

### **Regional Coordination**

1. Old Woodlands – Survey has been performed on drainage easement.

### **Municipal Reports**

1. Town of Hilton Head Island (From Jeff Netzinger, Stormwater Manager and Jacob Terry, MS4 Coordinator)
  - i. No information was available at time of report.

**BEAUFORT COUNTY  
STORMWATER UTILITY  
120 Shanklin Road  
Beaufort, South Carolina 29906  
Voice (843) 255-2805 Facsimile (843) 255-9436**

2. Town of Bluffton (From Kim Jones, Watershed Management Division Director)
  - i. [See attached Report.](#)
3. City of Beaufort (From Nate Farrow, Public Works Director)
  - i. No information was available at the time of this report.
4. Town of Port Royal (From Van Willis, Town Manager and Tony Maglione, consultant)
  - i. No information was available at the time of this report.

### **Stormwater Related Projects**

1. Easements – Staff is working on easement requests and meets monthly to review status of each as well as any new easements.
2. Complaints – Staff continually works numerous drainage related complaints each month.
  - a) Shell Point Community – Purchase order has been issued for work to begin within easements. Issuing Notice to Proceed by Mid-September.
3. Factory Creek Watershed Regional Detention Basin “Phase II” – Staff working with legal team on mediation.
4. On Call Stormwater infrastructure services – J.H. Hiers
  - a) Huspah Court N – Staff scheduling work with contractor.
  - b) Bessies Lane – Staff obtaining purchase order to schedule work.
  - c) Church of God – Project completed.
5. Arthur Horne Park- No update since last report.

### **Professional Contracts Report**

1. CIP FY 18 Grouping Stormwater Projects – (Design - Ward Edwards \$202,000, Andrews Engineering \$560,490, Const. est. \$5,512,900)
  - a) Brewer Memorial – Closeout pending SCDOT approval.
2. Stormwater engineering consulting services – Woolpert
  - a) Scope #8 – St. Helena Drainage Study. Final report draft received 6/30. Allocated funds – \$129,525.00. Staff initiating work on half of the proposed improvements from the study.
  - b) Scope #11 – Northern Lady’s Island Drainage Study Phase II – Draft report is completed. Staff reviewing. Allocated funds – \$213,650.00
  - c) Scope #12 – Monitoring Station and rain gauge at Okatie River headwaters. Installed and computing data. Staff working with Woolpert on website for public. Allocated funds - \$58,804.15
  - d) Scope #13 – NPDES SMS4 general permit assistance 2023. Allocated funds - \$40,000.00.
  - e) Scope #14 – Rivers End Water Quality Improvements – Data compilation,

**BEAUFORT COUNTY  
STORMWATER UTILITY**

**120 Shanklin Road**

**Beaufort, South Carolina 29906**

**Voice (843) 255-2805 Facsimile (843) 255-9436**

stormwater inventory and survey, potential BMP identification, Model development, alternatives analysis, and drainage report. Allocated funds - \$174,465.00. Approved February 16, 2023. Survey complete and hydraulic modeling is complete, project is being QA/QC'd.

- f) Scope #15 – Plan Reviewing for MS4 Compliance – Allocated funds - \$40,000.00.
- g) Scope # 16 – Tax Run – County to hand over workflow of tax run to assist with workload. Staff reviewing task order. Allocated funds - \$52,320.00.

Scopes on County and Woolpert Radar:

- 1. SWMP Update – staff to update stormwater management plan for DHEC.
- 2. 5 year Stormwater Utility Fee Assessment – Budget deep dive to look at next TY SWU fees.

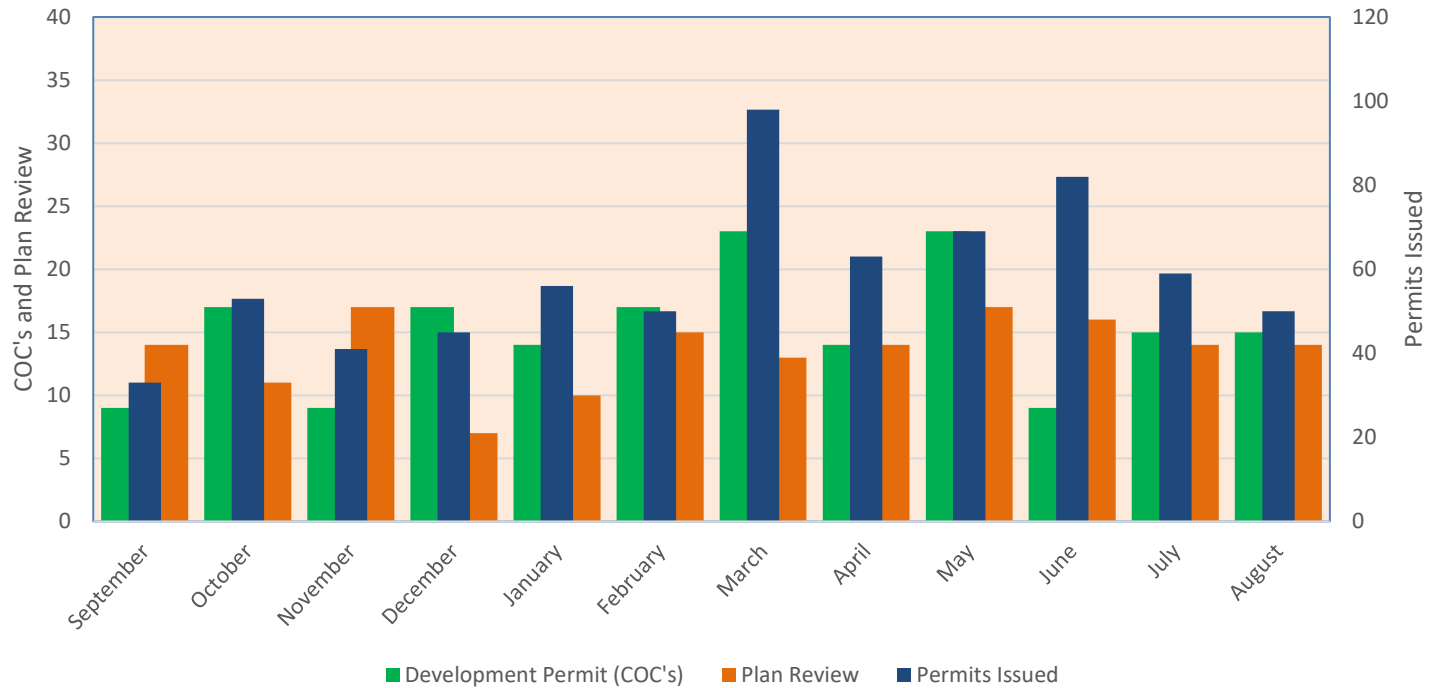
**MS4 Report**

- 1. Plan Review – [See the attached chart](#) for Beaufort County Stormwater staff plan review workload for the past 12 months.
- 2. Stormwater Permits – [See the attached chart](#) for Beaufort County Stormwater permits issued for the past 12 months.
- 3. Monthly Inspection summary - [See the attached chart](#) for Beaufort County Stormwater staff inspection, complaint, IDDE, and violations summary for the past 12 months.
- 4. Public Education – [See the attached chart.](#)
- 5. MS4 Statewide General permit – EPA has provided comments to SCDOT's MS4 permit.

**Staff Update**

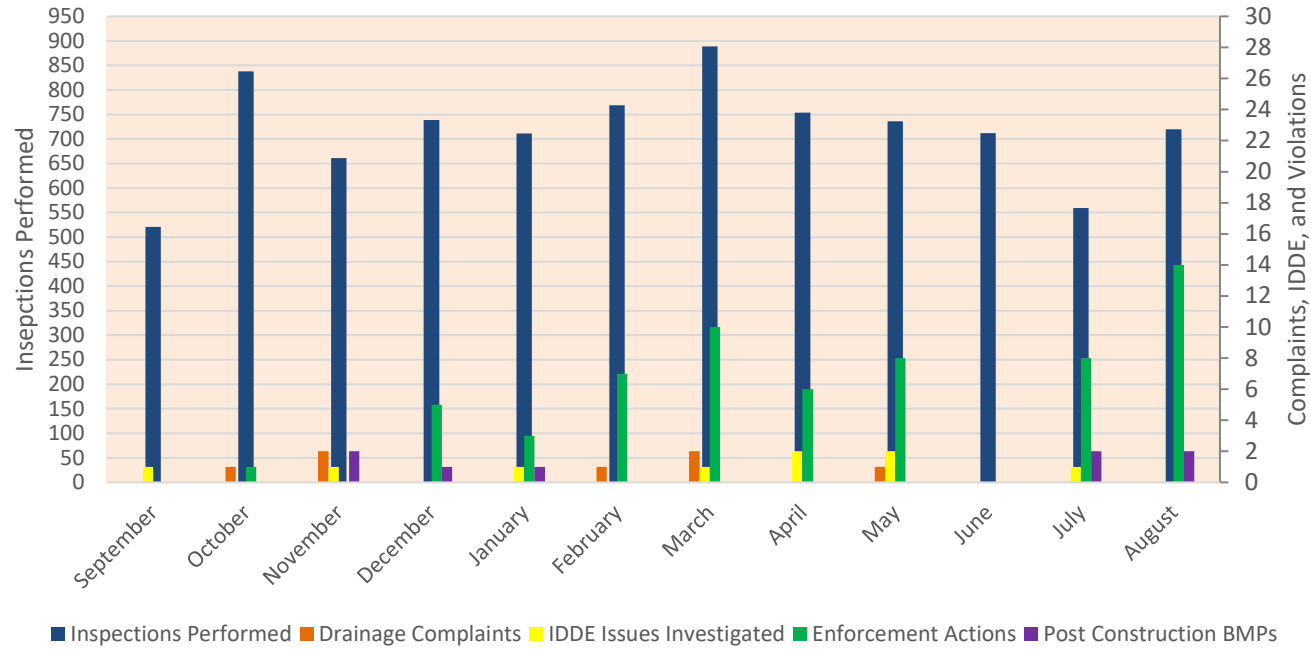
- 1. Staff working to fill all vacant positions.

### MS4 Minimum Control Measure #5 Stormwater Plan Review



TYPE	September	October	November	December	January	February	March	April	May	June	July	August	Last 12 Months
Development Permit (COC's)	9	17	9	17	14	17	23	14	23	9	15	15	182
Plan Review	14	11	17	7	10	15	13	14	17	16	14	14	162
Permits Issued	33	53	41	45	56	50	98	63	69	82	59	50	699

### MS4 Minimum Control Measure #4 Erosion Sediment Control Inspections



TYPE	September	October	November	December	January	February	March	April	May	June	July	August	Last 12 Months
Inspections Performed	521	838	661	739	711	769	889	754	736	712	559	720	8609
Drainage Complaints	0	1	2	0	0	1	2	0	1	0	0	0	7
IDDE Issues Investigated	1		1	0	1	0	1	2	2	0	1	0	9
Enforcement Actions	0	1	0	5	3	7	10	6	8	0	8	14	62
Post Construction BMPs	0	0	2	1	1	0	0	0	0	0	2	2	8

Project (Year 2022)	Project Type	POC	Direct/Indirect	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Small Grants Program	Programs	Bacteria, Freshwater	Direct												
Pet Waste Station Map	Programs	Bacteria	Indirect												
Pet Waste Displays at Local Orgs	Other	Bacteria	Indirect												
Septic Workshop	Programs	Bacteria	Direct												
Bilingual Septic Rack Cards	Publication	Bacteria	Indirect												
Septic "Welcome to the Neighborhood" Packets	Publication	Bacteria	Indirect												
Boater Informational Packet	Publication	Bacteria	Indirect												
Boater online resources	Publication	Bacteria	Indirect												
Boater Waste Signage	Media	Bacteria	Indirect												
Boater Waste Buckets/Bags	Purchases	Bacteria	Indirect												
Adopt-A-Landing/Clean Marina Program	Programs	Bacteria	Direct												
2023 Beaufort Stormwater Pond Conference	Programs	Nutrients	Direct												
Healthy Pond Series: North	Programs	Nutrients	Direct												
Healthy Pond Series: South	Programs	Nutrients	Direct												
Healthy Pond Series: Central	Programs	Nutrients	Direct												
Soil sample placards at retailers	Media	Nutrients	Indirect												
Native Plant Signage	Media	Nutrients	Indirect												
Native Seed Promo Packet	Purchases	Nutrients	Indirect												
Soil Sample Bags at Local Retailers	Other	Nutrients	Indirect												
Buffer Workshop	Programs	Nutrients	Direct												
LID Lunch-and-Learn	Programs	Freshwater	Direct												
BMP Park Field Day	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct												
LID Map/Website Updates	Programs	Freshwater	Indirect												
BMP info packet	Publication	Freshwater	Indirect												
BMP Social Media Campaign	Publication	Freshwater	Indirect												
2024 Strategic Plan Update	Publication	Consortium Management	Indirect												
Being a Neighbor for Clean Water (Fall)	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct												
Rain Barrel Sale	Programs	Freshwater	Direct												
Adopt-A-Stream (Spring)	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct												
Adopt-A-Stream (Fall)	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct												
4-H2O (July)	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct												
Kids in Kayaks	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct												
LSP consortium meeting (March)	Programs	Consortium Management	Direct												
LSP consortium meeting (June)	Programs	Consortium Management	Direct												
LSP consortium meeting (Sept)	Programs	Consortium Management	Direct												
LSP consortium meeting (Dec)	Programs	Consortium Management	Direct												
Water Festival	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
May River Sweep	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
Keep Broad Creek Clean Festival	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
Beach/River Sweep	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
Soft Shell Crab Festival	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
Paris Island Earth Day	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
Shrimp Fest	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
Changing Tides (monthly)	Publication	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
News Article 1	Publication	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
News Article 2	Publication	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
News Article 3	Publication	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
FB posts (one a week)	Media	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
SWUB Report (monthly)	Reporting	Consortium Management	Indirect												
LSP Annual Report	Reporting	Consortium Management	Indirect												
Rack Cards	Purchases	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
Mailers	Purchases	Bacteria, Nutrients	Indirect												
LSP Promo Materials	Purchases	Consortium Management	Indirect												
Direct Contacts	Other	General Stormwater, Bacteria, Nutrients, Freshwater	Direct								20.00				
Rain Garden Workshop	Programs	Freshwater	Direct												

KEY	
	Not Started
	In Progress
	Completed

# TOWN COUNCIL



## STAFF REPORT

### Projects and Watershed Resilience Department

<b>MEETING DATE:</b>	September 12, 2023
<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) AND SPECIAL PROJECTS UPDATE**

#### **PATHWAYS**

- 1. Buck Island-Simmons ville Neighborhood Sidewalks and Lighting**
  - Construction of the Phase 6B sidewalks and drainage is complete.
  - **Next Steps**
    - Complete Phase 6B SCDOT closeout.
    - Construction of the street lighting is to be completed in FY 2024 by Dominion.
  
- 2. New River Linear Trail**
  - Conceptual Master Plan is complete.
  - Submitted plans to Santee Cooper for review and cost share for bridge replacements. They stated they will not participate in a cost share; thus, staff is reviewing the agreement terms with legal for next steps.
  - Received \$26,000 PARD grant award and \$2 million in appropriations.
  - Easement donation from New Riverside Community Association, Inc. approved at 3/14/23 Town Council.
  - Restroom purchase agreement approved at 7/11/23 Town Council.
  - Well contract finalized.
  - **Next Steps**
    - Continue engineering design for Phase 1 pathway (New River to Hwy 46).
    - Dominion utility easement for First Reading in September and Second and Final Reading in October.
    - LED light fixtures switch from Bridge Street to New River Linear Trail and well installation in November.

#### **SEWER & STORMWATER**

- 1. Buck Island-Simmons ville Sewer (Phases 5A-D)**
  - Received permits to construct from DHEC and SCDOT.
  - Department of Commerce approved the contract and contractor has executed his portion.



- **Next Steps**
    - Pre-construction meeting scheduled following Town Manager execution of the contract.
    - Start construction September 2023.
- 2. Historic District Sewer Extension Phases 2 & 3 - Bridge & Colcock Streets**
- Jordan Construction of Hilton Head, Inc. continues construction.
  - **Next Steps**
    - Start house connections once construction is complete and Permit to Operate is issued by DHEC.
- 3. Historic District Sewer Extension Phases 4 through 6 – Lawrence, Green and Water Streets**
- Reviewed initial design for Phases 4, 5, & 6 and submitted to BJWSA for initial review.
  - **Next Step**
    - Incorporate any Phases 4, 5, & 6 design changes to drawings after BJWSA review.
    - Obtain Quit Claim Deeds from all the property owners along the ghost roads or initiate legal action.
- 4. May River Watershed Action Plan Impervious Restoration Water Quality Projects**
- Initial site investigations are complete for 9 of the 11 participating project partners.
  - Palmetto Pointe Towns, Lowcountry Community Church and Apartment One declined to participate in the Program at this time. Updated Policy document for Impervious Restoration Program submitted and under review.
  - Geotechnical investigations at 6 school sites complete and field results under analysis for use in development of Preliminary Design. Geotechnical investigations for remaining sites being scheduled.
  - Initial Property Owner contacts for the selected 15 Additional Sites within Municipal Limits have been made.
  - **Next Steps**
    - Geotechnical evaluations at the 3 remaining site locations being coordinated with Property Owners.
    - Begin preliminary site design.
    - Final Review meeting on Updated Draft Policy Document held 8/10/23 and comments to consultant being prepared.
- 5. Buck Island Drainage Improvements**
- Project closed out.
  - **Next Steps**
    - Evaluating modifying SCDOT encroachment permit to accommodate construction of handrails at boardwalk crossing the wetland.

## **HISTORIC DISTRICT IMPROVEMENTS**

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

- Phase 2 light locations are being reevaluated based on streetscape plans and road ownership changes.
- SCDOT and Dominion previously indicated poles must be installed on private property due to conflicts with sewer force main and communication utilities within the right of way.
- **Next Steps**
  - Finalize new light locations and install streetlights on the west side of the street in FY 2024. Coordinate conduit and light installation for the east side of the street in conjunction with larger streetscape project, if warranted.

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

- The contract with Huss Inc. was executed and construction began on 1/16/23 with a groundbreaking ceremony held on 2/4/23.
- Structure was lifted. Excavation, footers, slab, blockwork, brick piers, block walls were sealed and insulated, perimeter sill beams and interior beams were installed, flooring at crawl space has been insulated and structure has been lowered. Both masonry fireplaces have been reinstalled.
- **Next Steps**
  - The next several weeks will focus on additional deconstruction of the exterior siding, structural wood framing of all walls and subflooring to prep for rough in mechanical, electrical, plumbing and fire suppression, replacement of existing roof and sheathing. Window and door restoration are ongoing offsite at Huss's shop and re-installation in progress.

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

- Issued Notice to Proceed for Phase 1 construction to start 12/5/22.
- Obtained survey proposal for Phase II streetscape project.
- Engaged Barrier Island for Phase II design.
- Drainage, parking, sidewalks, and mill and overlay have been finished.
- Landscaping has been installed at 5' strips.
- Obtained easement from Cunningham LLC for parking sign installation.
- Installed 3-hour limited parking signs.
- Updated SCDOT encroachment permit for No Parking signs.
- Installed tabby planters at Calhoun and Bridge Streets.
- **Next Steps**
  - Continued construction to complete lighting and additional power.
  - Continue Phase 2 conceptual plan for SCDOT permitting.

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

- Engineering Design is 70% complete and submitted to Watershed for stormwater for initial review.
- Met with Dominion Energy on 5/17/23. Still awaiting underground conversion plans from Dominion Energy.

- **Next Steps**
  - Continuing with Engineering Design, Underground Power Coordination, and Permitting.
  - Obtain easement exhibits and begin appraisals in FY 2024.
  - Bid construction in FY 2024, subject to acquisition of all required easements.

## 5. Calhoun Street Streetscape

- Preliminary engineering design is 40% complete.
- Met with Dominion Energy on 5/17/23. Awaiting underground conversion plans from Dominion Energy.
- **Next Steps**
  - Begin negotiations with May River Road property owners for main transmission line easements.
  - Once the main line transmission line easements have been completed, then continue with engineering design into FY 2024.
  - Prepare easement acquisition plats for Phase 1 in 2024 and begin easement acquisition.
  - Phased construction is planned to begin in FY 2025 pending budget approval and acquisition of 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 in January.
- US DOT RAISE grant application for planning and design of bike and pedestrian safety improvements in Historic District, Goethe/Shults and Buck Island/Simmons ville neighborhoods for implementation in a phased approach was not awarded.
- **Next Steps**
  - Contract for engineer design to be considered by Town Council at 9/12/23 Council meeting.

## 7. Comprehensive Drainage Plan Improvements

- Asset inventory and condition assessment complete for Heyward Cove.
- 2D H/H model development complete.
- Initial Tidal Gauge information gathering at Calhoun St Dock has been completed.
- Review of 2D H/H model development results and area of inundation/choke points complete.
- FY24 Scope of Work being developed and evaluating inclusion of Sea Grant work elements.

- **Next Steps**
  - Updated *DRAFT* Final Project Report review complete and final review comments provided to consultant. Updates to Final Report in progress.
  - Establish maintenance and CIP project needs list and Master Planning report to reduce risk of flooding.

## 8. Pritchard Street Drainage Improvements

- Cranston Engineering has re-submitted updated 70% project design of streetscape elements based on review comments and under review. Project scope has increased to include streetscape elements, pedestrian connectivity, street lighting and traffic calming evaluation. Updated 70% design submission review meeting held. Growth Management and Stormwater Pre-Application meeting being scheduled.
- **Next Steps**
  - Coordinate approval for proposed improvements with Beaufort County School District.
  - Complete 100% design submission, permitting submissions and bid document formulation.

## **PARK DEVELOPMENT**

### 1. Oyster Factory Park

- Civil Construction substantially complete. Landscape construction to be completed by August 2023.
- Executed Task Authorization with Witmer, Jones, Keefer for design of the event Area.
- **Next Steps**
  - Finalize design of area event area based on Council feedback in April Quarterly Workshop and Town staff internal stakeholder review.
  - Prepare event area plans for bid in November.

### 2. Oscar Frazier Park

- Started construction of Rotary Center Improvements in June. Construction to be phased and coordinated with events planned for the Rotary Center
- Received responses to RFP splash pad solicitation on 7/12/23.
- **Next Steps**
  - Complete Rotary Hardscape construction in October.
  - Selected design/build contractor for the Splash Pad in September and obtain contract approval in October.

### 3. New Riverside Barn/Park

- Architectural design services for the Barn additions are 99% complete.
- Design of the playground area is 95 % complete.
- JS Construction started phase 1 site construction on 1/27/2023.
- Contract has been executed with Nix Construction for Construction Manager at Risk Services for Phases 2 and 3.
- **Next Steps**

- Complete the architectural design of barn addition.
- Complete design of playground area.
- Continuing construction of Phase 1 Site Development Infrastructure.
- Obtain guaranteed maximum price from Nix Construction and present contract to Town Council in October.

#### **4. Miscellaneous Park Improvements**

- Per Town Council direction, staff ordered playground equipment for DuBois Park. Equipment is expected to arrive in September.
- Executed contract to install the DuBois playground equipment beginning in late September.
- Obtained quotes and selected a contractor to install perimeter sidewalk for the DuBois Playground Expansion.
- Executed contract with T&H for landscape and hardscape design services for improvements at Evicore Park.
- **Next Steps**
  - Install playground equipment with Palmetto Recreation Equipment, LLC.
  - Install perimeter sidewalk at DuBois Park.
  - Continue preliminary design of Buckwalter Place Park and all FY 2024 park improvements.

### **TOWN FACILITIES AND MISCELLANEOUS PLANNING**

#### **1. Town of Bluffton Housing Projects**

- **Next Steps**
  - Provide financial assistance to joint venture partner for planning, design and permitting of Affordable/Workforce Housing at 1095 May River Road.

#### **2. Law Enforcement Center Facility Improvements**

- Clearing sodding, columns and fence construction for the challenge course is complete.
- **Next Steps**
  - Complete construction punch list items with The Greenery for the challenge course.
  - Begin design work for an expanded area to accommodate an impound lot, and possible storage of Public Service maintenance equipment.

#### **3. Sarah Riley Hooks Cottage**

- Completed conceptual master plan concepts and building assessment. Presented plans to Town Council at the April Workshop for review and direction.
- Selected Meadors Inc to provide design services and construction documents for the restoration of the Sarah Riley Hooks Cottage.
- Executed design services contracts with JK Tiller and ShearLock Engineering for FY 24 site development and structural plans.
- **Next Steps**
  - Execute design contracts with Meadors Inc. and complete construction documents for the Cottage in FY 2024.
  - Complete Site Development Plans in FY 2024
  - Begin restoration construction of cottage in FY 2025.

#### 4. Ghost Roads

- Surveying and easement exhibits are complete.
- Staff is currently working with Lawrence, Lawton, Green, Pope, Allen and Water Street property owners to obtain Quit Claim Deeds.
- Staff continue to meet with property owners to raise awareness of the acquisition efforts and communicate next steps and requested Council assistance.
- **Next Steps**
  - Obtain remaining Quit Claim Deeds for Historic District Sewer Phases 4-6 or 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 4 departments will transition through FY 2026.

#### 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.
- Replaced phone system to a more modern system.
- **Next Steps:**
  - Replacing two more VMWare hosts.
  - Implementation of ExecuTime to replace Intime.

## **WATERSHED MANAGEMENT**

### **1. Stoney Creek/Palmetto Bluff Sewer Partnership**

- 2022 updated cost-estimate for the project from BJWSA is \$7.2 million + contingencies. BJWSA has agreed to be the Project Manager.
- Awarded the RIA SCIPP grant in support of Stoney Creek/Palmetto Bluff Sewer Extension with BJWSA and Beaufort County.
- Met with partners to address BJWSA IGA concerns on 3/2/23. A draft 3-party Intergovernmental Agreement was discussed at a follow up meeting on 5/30/23.
- **Next Steps**
  - Finalize 3-party IGA with Town, County and grant splitting sewer extension costs and BJWSA funding water extension costs.
  - BJWSA RFQ for design engineers closes on 8/1/23 and award anticipated by BJWSA Board by end of September 2023.

### **2. SC Department of Health and Environmental Control 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***

- Staff continue to work with Water Environmental Consultants (WEC) to review continuous flow data from the Stoney Creek, Rose Dhu Creek, and Palmetto Bluff subwatersheds. WEC is reviewing continuous flow data in real time with the implementation of Turnkey telemetry systems. WEC provided recommendations on the Town's water quality grab sampling program to ensure sufficient data for model calibration. Staff began implementing these recommendations on 7/31/23.
- The Town's Calhoun Street Dock tidal elevation gauge was repaired and is recording tidal elevation data. Water Environmental Consultants (WEC) will establish two (2) additional tide gauges near the Stoney Creek and Rose Dhu Creek model boundaries as part of a 4-week headwaters tidal gauge study. The Calhoun Street dock and headwaters tidal elevation data will be used to establish a relationship between tidal amplitude and timing in the headwaters of the May River.
- The University of South Carolina Beaufort (USCB) Water Quality Laboratory Manager has resigned, and Dr. Tye Pettay is now sole Principal Investigator (PI) for the Town's Memorandum of Understanding (MOU). USCB notified Town staff as required by the newly executed MOU and USCB will be seeking a new laboratory manager.
- Staff met with SC Sea Grant on 8/01/23 to discuss components of a Resiliency Assessment as recommended in the Comp Plan and funded in the FY24 budget. Emergency Management, Growth Management, and Watershed presented their needs. Sea Grant has delivered an initial scope and staff is in the process of reviewing. Needs for the Buck Island/Simmons ville area for flooding were included. Staff met with Beaufort County on 8/09/23 to discuss the Town's current May River Baseline Assessment Update and discussed potential for conducting similar studies in other watersheds, such as the Okatie River.

- Dr. Pettay, USCB MST Laboratory PI, provided staff with information on field kits that can be utilized to determine if a harmful algal bloom (HAB) is producing toxins. Staff have procured and received these field kits to better equip the Town to respond to potential HAB's.
4. **Municipal Separate Storm Sewer System (MS4) Program Update**
    - Joe Sease has been authorized as an Environmental Code Enforcement Officer.
  5. **MS4 Minimum Control Measure (MCM) - #1 Public Education and Outreach, and MS4 MCM - #2 Public Participation and Involvement**
    - The May River Watershed Action Plan Advisory Committee (WAPAC) was held on 8/24/23 and the Committee reviewed priorities to present for Council's consideration during their upcoming Strategic Planning session in November 2023. **Attachment 3**
    - Staff continues to coordinate the Town's Beach Sweep/River Sweep which will be held September 16, 2023, from 9:00am-11:30am at Oyster Factory Park.
  6. **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 Health and Environmental Control (SCDHEC) 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. SCDHEC conducted sampling 8/23/23. All results are currently pending.
    - Illicit Discharge Investigations – **Attachment 4e**
  7. **MS4 MCM – #4 Construction Site Stormwater Runoff Control – Attachment 5**
  8. **MS4 MCM – #5 Stormwater Plan Review and Related Activity – Attachment 6**
  9. **MS4 MCM – #6 Good Housekeeping (Staff Training/Education)**
    - No update.
  10. **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.

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

### **Attachments**

1. SCDHEC Shellfish Harvesting Monitoring Data Year-to-Date
  - a. SCDHEC May River Shellfish Harvesting Status Exhibit
2. Quarterly Update – May River Watershed Action Plan Implementation Summary\*
3. MS4 Minimum Control Measures #1 and #2 – WAPAC Public Notice
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 – Human Source
  - d. Microbial Source Tracking Map – All 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

\* Attachment noted above includes the latest updates in green.

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

	19-19				19-19A				19-19B				19-19C				19-24				19-16			
	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023
	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	17.0	79.0	33.0		22.0	49.0	49.0		17.0	4.5	17.0		4.5	17.0	49.0		4.0	6.8	6.8		11.0	7.8	13.0	
November	70.0	33.0	33.0		31.0	33.0	13.0		17.0	7.8	7.8		13.0	4.0	4.5		13.0	4.5	6.1		4.5	2.0	13.0	
October	49.0	49.0	23.0		79.0	26.0	46.0		31.0	13.0	13.0		21.0	23.0	23.0		33.0	23.0	11.0		79.0	17.0	14.0	
September	110.0	33.0	540.0		49.0	11.0	350.0		49.0	17.0	350.0		33.0	13.0	170.0		33.0	2.0	79.0		33.0	11.0	33.0	
August	49.0	49.0	23.0		49.0	49.0	23.0		23.0	23.0	11.0		23.0	49.0	13.0		17.0	14.0	17.0		22.0	14.0	11.0	
July	33.0	350.0	920.0	350.0	13.0	64.0	49.0	920.0	23.0	79.0	95.0	70.0	7.8	33.0	130.0	49.0	7.8	33.0	23.0	33.0	17.0	13.0	46.0	17.0
June	NS	49.0	13.0	14.0	NS	79.0	4.5	7.8	NS	13.0	11.0	23.0	NS	17.0	2.0	13.0	NS	22.0	1.8	33.0	NS	2.0	9.3	13.0
May	70.0	2.0	4.5	23.0	49.0	49.0	4.5	33.0	23.0	23.0	4.0	17.0	22.0	23.0	1.8	13.0	6.8	23.0	1.8	33.0	4.5	7.8	2.0	21.0
April	33.0	33.0	4.5	170.0	33.0	23.0	4.5	130.0	13.0	22.0	1.8	110.0	6.8	17.0	2.0	70.0	13.0	7.8	1.8	NS	13.0	2.0	1.8	7.8
March	170.0	33.0	33.0	23.0	49.0	11.0	23.0	49.0	130.0	17.0	2.0	17.0	49.0	13.0	4.5	17.0	70.0	2.0	2.0	17.0	33.0	2.0	2.0	17.0
February	17.0	79.0	23.0	540.0	7.8	70.0	31.0	350.0	21.0	79.0	17.0	240.0	4.5	23.0	22.0	240.0	4.5	7.8	2.0	33.0	6.8	6.8	11.0	33.0
January	95.0	17.0	49.0	33.0	33.0	17.0	22.0	33.0	33.0	13.0	33.0	13.0	17.0	23.0	7.8	33.0	17.0	17.0	7.8	7.8	17.0	7.8	7.8	4.5
** Truncated GeoMetric Mean	34.0	36.0	40.0	42.0	21.0	26.0	28.0	34.0	16.0	18.0	18.0	19.0	12.0	15.0	14.0	17.0	10.0	10.0	9.0	10.0	9.0	8.0	9.0	8.0
** Truncated 90th Percentile	106.0	139.0	192.0	254.0	59.0	69.0	91.0	166.0	50.0	58.0	72.0	91.0	37.0	39.0	54.0	81.0	31.0	35.0	41.0	48.0	35.0	33.0	32.0	27.0

NS = No Sample

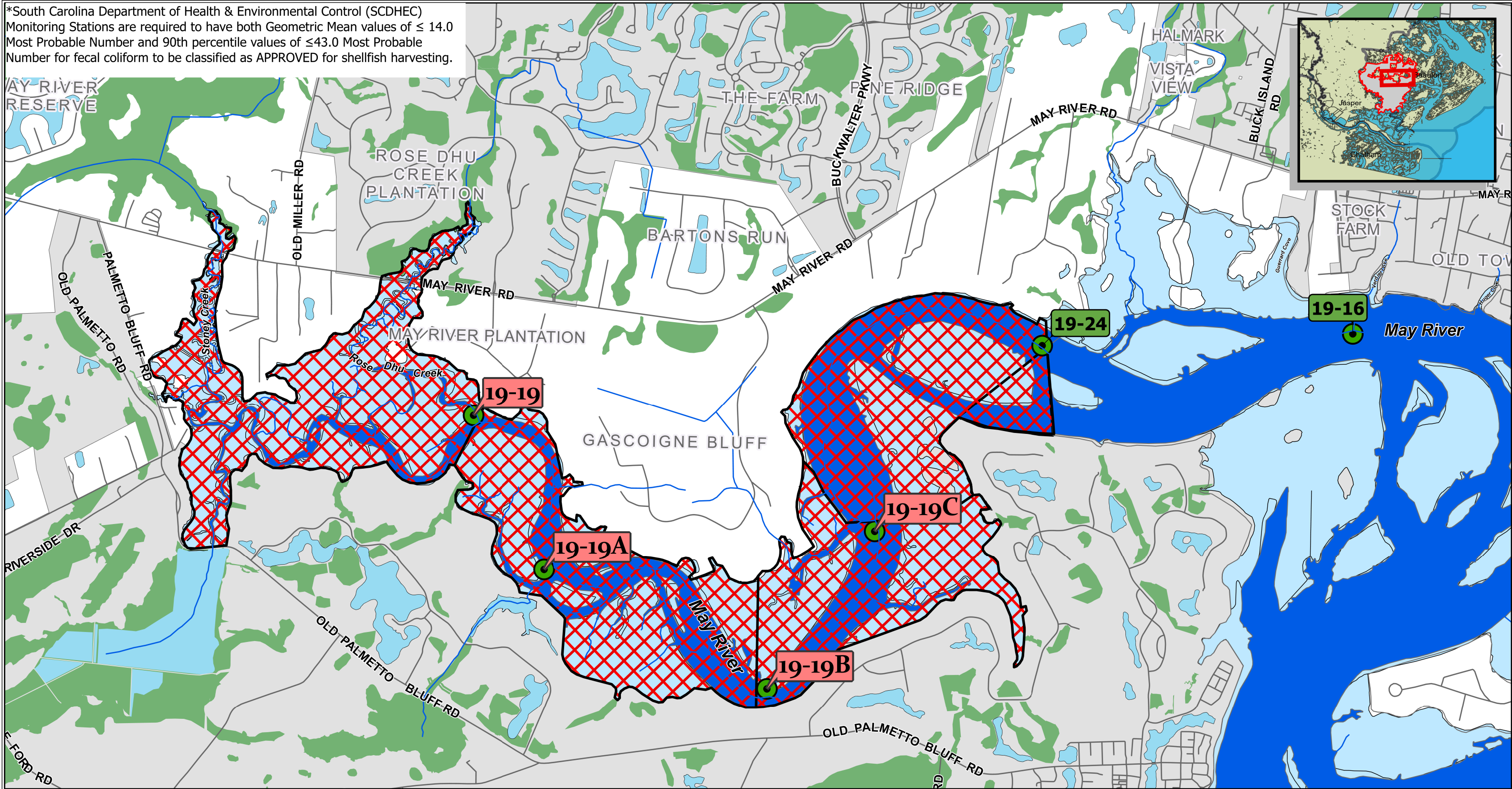
**SCDHEC Regulatory Requirements:**

Geometric Mean ≤ 14

90th Percentile ≤ 43

\*\* Town staff calculations utilizing SCDHEC statistics

\*South Carolina Department of Health & Environmental Control (SCDHEC)  
Monitoring Stations are required to have both Geometric Mean values of  $\leq 14.0$   
Most Probable Number and 90th percentile values of  $\leq 43.0$  Most Probable  
Number for fecal coliform to be classified as APPROVED for shellfish harvesting.



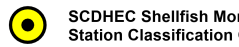
SCDHEC Shellfish Monitoring Stations









Restricted  
2022/2023 Shellfish  
Season



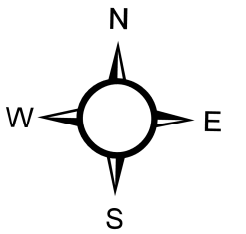
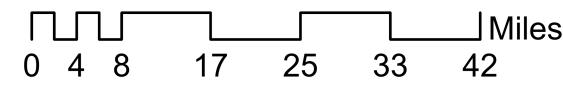
Open SCDHEC Shellfish  
Monitoring Stations



SCDHEC Shellfish Monitoring  
Station Classification Change

-  Streets
-  Drainage
-  Town Jurisdiction
-  County Jurisdiction
-  Water
-  Wetlands

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



WAPAC Meeting Presentation  
May River Watershed Action Plan Update & Modeling Report  
Overview and Status  
August 25, 2022

Updated July 27, 2023

**Overview**

- May River Watershed Action Plan Update & Modeling Report completed November 2020.
- Town Council Adoption of May River Watershed Action Plan Update as a Supporting Document to the Comprehensive Plan completed February 2021.
- May River Watershed Action Plan Update & Modeling Report Summary:
  - **Executive Summary** provides an overview of the project background, findings and interpretation, current state of knowledge concerning fecal coliform fate and transport, and an overview of proposed recommendations for the Town.
  - **1.0 Introduction** includes more detailed project background including the purpose of the document and the Project Team's tasks to 1) develop water quality models to compare current conditions (2018) to pre-shellfish impairment conditions (2002) to develop pollutant load reduction estimates, and 2) evaluate 2011 Action Plan BMPs for appropriateness under current conditions and provide up to eleven (11) alternative projects and preliminary cost estimates.
  - **2.0 Model Setup; 3.0 Model Calibration, and 4.0 Water Quality Model Results** details the methodology used by the Project Team to establish and calibrate the models and the model outputs. This highly technical information is necessary for future Water Quality (WQ) Model calibration and use for consistency.
  - **5.0 Recommendations** includes strategies to improve the Town's monitoring efforts to calibrate the WQ Model further (§5.1), strategies and BMPs for bacteria reduction (§5.2), an evaluation of 2011 Action Plan BMP projects (§5.3), and methodology used to develop 2020 Action Plan Update recommended projects (four septic to sewer conversion projects and eleven stormwater BMP retrofit projects) with cost-estimates and ranking/prioritization (§5.4).
  - **6.0 Conclusions** offers a summary of the WQ Model results in context of current state of knowledge.
  - **7.0 References** documents the prior research findings used to inform recommendations.
  - **Appendices** reference supporting materials:
    - Montie et al. (2019) "Technical Report: Historical Analysis of Water quality, Climate Change Endpoints, and Monitoring in Natural Resources in the May River,"
    - Technical Memo from Dr. Rachel Noble,
    - Watershed Treatment Model Spreadsheets, and
    - Detailed Project Cost Estimate Spreadsheets.

## MRWAP 2020 Update Septic to Sewer Project Recommendations/Evaluations:

- Four (4) septic to sewer conversion projects were evaluated in the Rose Dhu Creek and Stoney Creek subwatersheds:
  - Cahill
  - Gascoigne
  - Stoney Creek
  - Pritchardville
  - These projects overlap with 42 subcatchments in the Stoney Creek watershed and 11 in Rose Dhu Creek. Based on WQ Model outputs, these projects alone may potentially reduce FC loading by  $3.46 \times 10^{13}$  FC per year.
- The estimated septic to sewer conversion costs of these projects also requires water capacity upgrades. Previous cost estimates are not accurate and will be updated by BJWSA as each project is considered.

### **Work Performed and Current Status as of August 25, 2022 Meeting**

Discussions with the Town, Beaufort County and BJWSA have been held about future Septic to Sewer Program projects identified above. Stoney Creek Septic to Sewer Project has been identified as the next priority project to pursue under the Septic to Sewer Program.

- The Town and Beaufort County are finalizing Funding and Cost share elements relative to the project. The Stoney Creek sewer and water project cost estimate is nearly \$14 million which is offset by a \$5,925,000 grant.

### **Update for WAPAC July 27, 2023 Meeting:**

**Stoney Creek/Palmetto Bluff Sewer: Three-party agreement is being finalized by BJWSA legal team now. BJWSA's RFP for water and sewer design services was supposed to close 6/30/23. Due to RIA protocol, they must review and approve an RFP prior to posting, thus the RFP was canceled. BJWSA received RIA approval and reposted the RFP on 7/17/23 with a closing of 8/1/23.**

## MRWAP Update Eleven Impervious Restoration (stormwater retrofit) Project Recommendations/Evaluations:

- Eleven (11) project sites (incorporating various individual BMPs) were selected in consultation with the Town (prioritizing subcatchments with FC bacteria hotspot and/or large impervious areas). These sites were evaluated in terms of the potential benefits gained by retrofitting to meet the 95th percentile storm retention, to the maximum extent possible, under the proposed Impervious Area Restoration/Stormwater Retrofit Program.

Eleven (11) proposed project sites Rose Dhu Creek (6 projects) and Stoney Creek (5 projects):

- Bluffton Early Learning Center (BELC)
- Boys and Girls Club of Bluffton (BGC)
- Benton House (BH)
- Bluffton High School (BHS)
- Buckwalter Recreation Center (BRC)

- Lowcountry Community Church (LCC)
- McCracken Middle School/Bluffton Elementary School (MMSBES)
- May River High School
- One Hampton Lake Apartments (OHLA)
- Pritchardville Elementary School (PES)
- Palmetto Pointe Townes (PPT)
- Based on WQ Model outputs, these projects alone may potentially reduce FC loading by
  - $2.99 \times 10^{14}$  FC reduction for the Full SWRV (entire sub-basin drainage area catchment).
  - $2.53 \times 10^{14}$  FC reduction for the Reduced SWRV projects (impervious area drainage area of sub-basin catchment).
- The estimated of Full SWRV projects costs is \$32.7 million and the estimated cost of Reduced SWRV projects is \$22.6 million.
- Currently the Towns' Impervious Restoration Program is targeting Reduced SWRV for future projects.

**Example** of Impervious Restoration Project evaluation from May River Watershed Action Plan Update & Modeling Report:



Figure 52. McCracken Middle School/Bluffton Elementary School Proposed Stormwater BMP Retrofits

## Work Performed and Current Status as of August 25, 2022 Meeting

### Update for WAPAC July 27, 2023 Meeting:

Work performed for this project is being performed by MSA Consultant Engineering Firm:

- Drafted a detailed scope of work for Engineering Consultant Firm review and cost proposal (Expression of Interest) regarding performance of the work elements presented herein and related to MRWAP Update recommendations for implementation.
- The Expression of Interest was submitted to 3 consultant firms under existing Master Service Agreements with the Town for review and a request for response.
- All 3 Firms responded and their respective responses were evaluated, scored and discussed internally.
- A recommendation for Award was made to Goodwyn, Mills and Cawood selected.
  - Phase I of this work performed under existing FY 22 funding from Watershed Management Division.
  - Phase II of this work was approved for FY23 funding.

### **Task 1 : MRWAP Update 11 site locations**

#### Update for WAPAC July 27, 2023 Meeting:

Eleven (11) proposed project sites Rose Dhu Creek (6 projects) and Stoney Creek (5 projects):

**Yellow** highlight indicates geotechnical evaluations complete.

1. **Bluffton Early Learning Center (BELC). Participating in preliminary design development phase.**
  2. Boys and Girls Club of Bluffton (BGC). **Participating in preliminary design development phase.**
  3. Benton House (BH). **Participating in preliminary design development phase.**
  4. **Bluffton High School (BHS). Participating in preliminary design development phase.**
  5. Buckwalter Recreation Center (BRC). **Participating in preliminary design development phase.**
  6. Lowcountry Community Church (LCC). **Declined to Participate.**
  7. **McCracken Middle School/Bluffton Elementary School (MMSBES). Participating in preliminary design development phase.**
  8. **May River High School. Participating in preliminary design development phase.**
  9. One Hampton Lake Apartments (OHLA). **Declined to Participate.**
  10. **Pritchardville Elementary School (PES). Participating in preliminary design development phase.**
  11. Palmetto Pointe Townes (PPT). **Declined to Participate.**
- Evaluate 11 sites and proposed BMPs. **Complete.**
  - Update concept plans for 11 sites based on site evaluations, recommendations and discussions. **Complete.**
  - Perform geotechnical evaluations at each site at locations related to BMP locations of updated concept plans. **Completed for the 5 school sites.** Geotechnical evaluations for the remaining **3** participating partner sites are being schedule based on recent property owner participation status being known/confirmed.

**Coordinating geotechnical work approval with property owners and schedule for Benton House (BH), Buckwalter Recreation Center (BRC) and Boys and Girls Club of Bluffton (BGC).**

- Refine updated concepts and use for presentations to Property Owner to discuss Impervious Restoration Program goals, objectives and gain support for Program and their participation. **Based on geotechnical investigation results, updated Concept plans for the 5 school sites have been refined. A meeting will be scheduled with School District to discuss the updated concept plans to get their feedback prior to beginning Preliminary Design task.**
  - Develop list of “incentives” to secure Property Owner participation (**see Policy Document Formulation below**).
- Based on geotechnical information and Property Owner feedback further refine concept plans to Preliminary Design :
  - Determine BMP types and location to maximize SWRv/WQ treatment in cost effective approach. **Estimated impervious area treated and SWrv capture based on refined Concept plans developed for the 5 school sites.**
  - Determine estimated pollutant load reductions.
  - Develop site specific BMP details.
  - Develop preliminary BMP maintenance schedule and cost for each site.
- Preliminary Design development plans will be presented to the Property Owner for review and discussion. Other Restoration Program details (maintenance responsibilities, easements, incentives, etc.) developed as part of the Program (see Policy Document Formulation below) will also be discussed in hopes of establishing a commitment from the Property Owner to participate in the Program. Once a “commitment” is secured from the Property Owner, the project site will be moved to Final design, permitting, and ultimately construction.

**Task 2 :** Identify 15 new project sites for Town of Bluffton Impervious Restoration/BMP Retrofit Projects.

- The Town wishes to identify an additional 15 project sites located within the municipal limits of Bluffton for the Impervious Restoration/BMP Retrofit Program. However, the criteria for site selection will be considered to be more “low hanging fruit” based on the following:
  - Within Town of Bluffton Municipal limits.
  - Soils – sandy soils with high infiltration rates offer the biggest bang for the buck for water quality treatment/improvement. Utilizing soil survey and other information target sites where infiltration can be maximized on-site.
  - Public or governmental agency land/property owner (not SCDOT RoW).

**Update for WAPAC July 27, 2023 Meeting:**

**Finalized the list of 15 additional sites (and 5 alternates) to be considered/evaluated within the municipal limits of Bluffton for Impervious Restoration feasibility and concept plan development. Site evaluations will be performed as property owner approvals for access to property to perform site assessment is obtained.**



## Town of Bluffton Impervious Restoration/BMP Retrofit Policy Documents.

**Task 3** : Section 5.4.4. Stormwater BMP Retrofit Projects of the May River Watershed Action Plan Update and Model Report identifies potential Impervious Restoration/BMP Retrofit projects located on Public and Private Land. As mentioned earlier, one of the primary site selection criteria, at time of report development, was to identify sites with large impervious areas so that pollutant load reductions could be estimated and the benefits of such projects on stormwater quality quantified/estimated, if implemented into construction. Generally, Public Funds are not expended to improve private property nor is Town of Bluffton funding generally expended on Public Land owned by another government entity. In order for such projects identified in Section 5.4.4. to move forward in the interest of improved water quality and for the overall benefit and welfare of the constituents of the Town of Bluffton, Policy Documents need to be formulated that establishes the parameters of such a Program to be initiated and implemented.

Policy Document Formulation has been initiated and includes research of similar programs nationwide.

### Update for WAPAC July 27, 2023 Meeting:

- **Updated Draft Policy Document was completed and submitted in June for staff review and comments are being finalized.**
- **Upon Policy Document Final Draft development, the Policy Document will be presented to WAPAC with a request for recommendation to Town Council for adoption.**

## Other, Related MRWAP Update Recommendations

- Adopt proposed regional Southern Lowcountry Post Construction Stormwater Ordinance and Design Manual - **complete** September 2021.
- The Town should incorporate volume reduction BMPs (those that encourage infiltration) within existing and future CIP projects to the maximum extent practical, especially for project locations with well-drained soils (HSG A or B) – **in progress**, see below.
  - **Work Performed and Current Status as of August 25, 2022 Meeting**
    - Bridge Street Streetscape Project
      - Project design/permitting is complete, and Construction Contract has been awarded.
      - Incorporated Infiltration BMPs within the project to capture and treat 1.95” of rainfall over impervious surfaces within the project area, prior to discharge into the May River.
      - Received Section 319 Grant from DHEC to cost-share cost of construction of proposed BMPs.
      - Construction was initiated by JS Construction in early December 2022. Construction considered 65% complete.
    - **Update for WAPAC July 27, 2023 Meeting:**
      - **Project work is Substantially Complete.**
      - **Partial reimbursement from DHEC for construction cost supported by 319 Grant requested and received.**
    - Pritchard Street Drainage Improvement Project

- Project in Design Phase and considered 30% complete.
- Incorporated Infiltration BMPs within the project to capture and treat 1.95" of rainfall over impervious surfaces within the project area, prior to discharge into Heyward Cove.
- 70% design plan submitted, reviewed and comments presented to consultant.
- 319 Grant was awarded by DHEC to the Town.
- **Update for WAPAC July 27, 2023 Meeting:**
  - **Project Scope of Work and budget increase approved for FY24 to include streetscape elements of lighting, sidewalk, traffic calming and ADA compliance.**
  - **Updated survey received.**
  - **Updated 70% design drawings received in July and under review.**
- In-House Microbial Source Tracking – **in progress**, see below
  - The Town entered a Memorandum of Understanding (MOU) with the University of South Carolina Beaufort (USCB) in July 2021 to establish and fund a regional Microbial Source Tracking (MST) laboratory capable of accepting environmental water quality samples.
  - Analytical services are provided by the USCB-MST laboratory for all environmental samples collected by the Town.
  - Staff has collected additional fecal samples needed for dog, bird, and deer. The USCB-MST Laboratory is conducting the assessment on additional fecal samples and Dr. Pettay will provide a final report to the Town once all fecal markers in regional watersheds have been analyzed.
  - **Update for WAPAC July 27, 2023 Meeting: Additional genetic fecal markers continue to be analyzed by Dr. Pettay and the MST Laboratory.**
- Future (new) Bacteria Monitoring Locations - **in progress**, see below
  - Staff increased sampling frequency and implemented additional monitoring sites and parameters in the May River headwaters based upon recommendations in the 2020 May River Watershed Action Plan Update and Model Report.
  - Staff is collecting intermittent flow data at SonTek IQ sites in conjunction with grab FIB samples.
  - **Update for WAPAC July 27, 2023 Meeting** Staff is working with the consultant to identify recommended strategies for intermittent flow data collection and a review of the Town's FIB grab sample schedule.
- Future (new) Water Flow Monitoring Locations.
  - **Work Performed and Current Status as of August 25, 2022 Meeting**
    - The MRWAP Update included recommendations for the Town to perform certain rainfall and flow data measurements in May River Headwater Watersheds in order to "calibrate" and make more accurate Model predictions. These recommendations were evaluated and a game plan to address recommendations to calibrate model developed.

- Utilizing existing flow and rainfall data collected over past years with rain gauges, IQ Plus and Sontek measuring instruments in Stoney Creek, Rose Dhu Creek, Palmetto Bluff, Duck Pond and Heyward Cove, the Town hired a consultant to review the data and determine:
  - Useful data obtained to gain the required information to calibrate model.
    - The data obtained from Stoney Creek and Heyward Cove was deemed sufficient for Model calibration and Final report for this work is in process.
    - Duck Pond was deemed inconsequential, not needed due to drainage area size and proximity/outfall to tidal waters.
    - Consultant Final Report delivered, and Model Calibration Data for Stoney Creek and Heyward Cove identified.
  - If data review resulted in insufficient data, develop a monitoring program that would produce the data needed.
    - Rose Dhu Creek and Palmetto Bluff flow data review resulted in data that was insufficient to calibrate Model.
    - Potential purchase of telemetry stations to equip continuous flow monitoring stations with real-time data access.
    - Final Report delivered. Based on recommendations of data and process needed, staff has procured needed telemetry station equipment and has hired a consultant to assist in getting the intermittent and continuous flow data and producing a Final Report. The field work installation of equipment is being scheduled. Once installed and operational, data collection will last 6 months.

**Update for WAPAC July 27, 2023 Meeting**

- **The Town of Bluffton procured and installed two (2) SonTek Turnkey Systems that enable real-time continuous flow data review to a cloud-based service. These systems are deployed in the Rose Dhu Creek and Palmetto Bluff subwatersheds.**
- **A SonTek IQ remains deployed in the Stoney Creek subwatershed. The consultant's first data review determined there was sufficient flow data for model calibration in the Stoney Creek subwatershed. However, staff determined it would continue to collect continuous flow data at this location so that continuous flow, intermittent flow, bacteria samples, and rainfall data were**

collected for three (3) of the four (4) Modeling Report subwatersheds simultaneously.

- Consultant is reviewing data and identifying power, beam, or possible maintenance issues weekly.
- Intermittent flow measurements, utilizing the FlowTracker2, will be conducted at the time of grab sampling at the three (3) SonTek IQ flow stations beginning 7/31/23.



# May River Watershed Action Plan Advisory Committee Meeting

Thursday, August 24, 2023 at 3:00 PM

Theodore D. Washington Municipal Building, 20 Bridge Street, Henry "Emmett" McCracken Jr.  
Council Chambers

## AGENDA

**I. CALL TO ORDER**

**II. ROLL CALL AND CONFIRMATION OF QUORUM**

**III. ADOPTION OF THE AGENDA**

**IV. ADOPTION OF MINUTES**

**V. PUBLIC COMMENTS**

**VI. OLD BUSINESS**

No Old Business

**VII. NEW BUSINESS**

1. Review of the May River Watershed Action Plan Advisory Committee (WAPAC) Charter - Kim Washok-Jones, Director of Projects & Watershed Resilience
2. Consideration of WAPAC Strategic Plan Priorities for FY25-26 - Beth Lewis, Water Quality Program Manager

**VIII. DISCUSSION**

**IX. ADJOURNMENT**

**NEXT MEETING DATE: Thursday, September 28th, 2023 at 3:00PM**

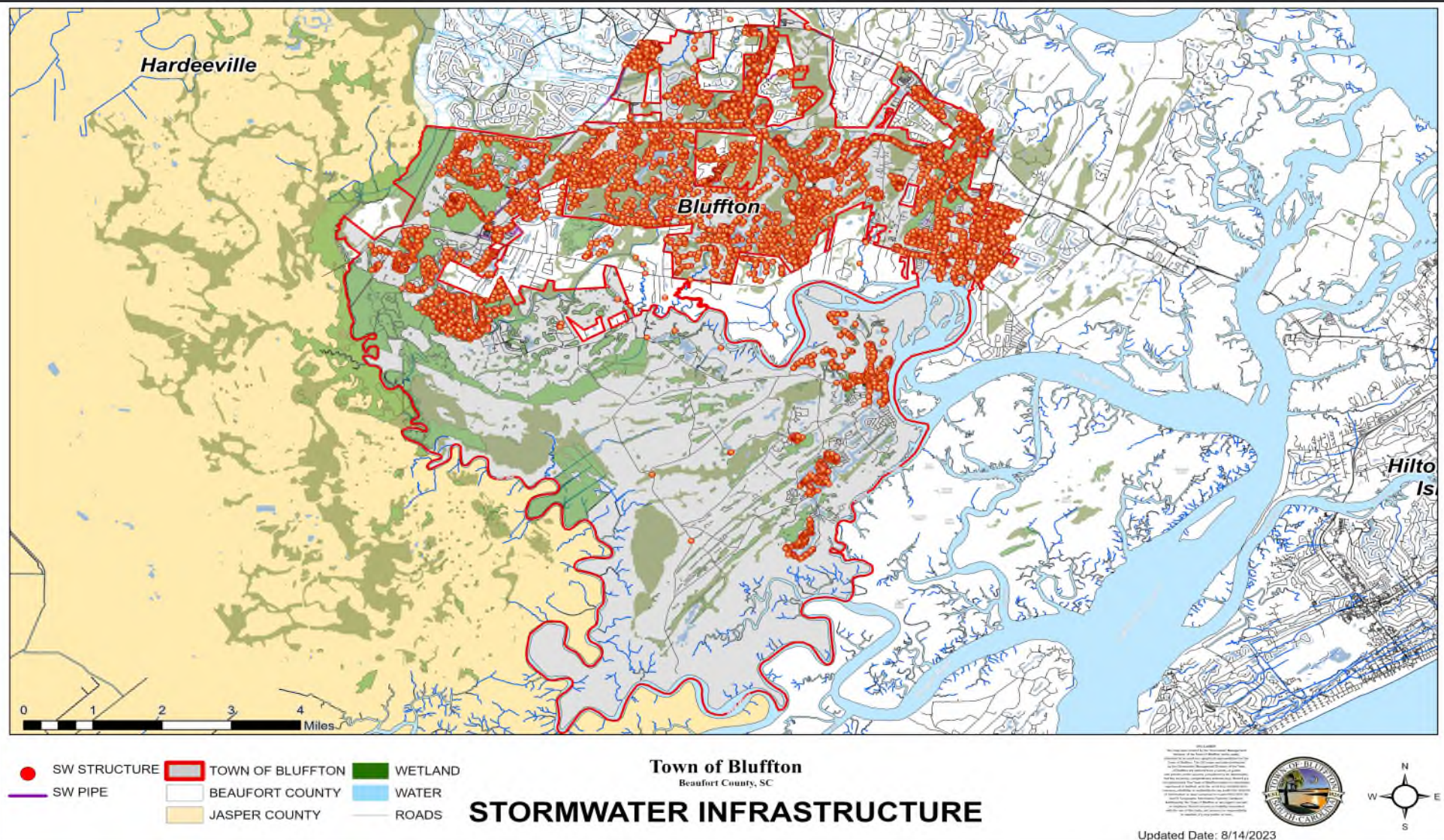
---

*"FOIA Compliance – Public notification of this meeting has been published and posted in compliance with the Freedom of Information Act and the Town of Bluffton policies."*

*In accordance with the requirements of Title II of the Americans with Disabilities Act of 1990 ("ADA"), the Town of Bluffton will not discriminate against qualified individuals with disabilities on the basis of disability in its services, programs, or activities. The Town of Bluffton Council Chambers are ADA compatible. Auditory accommodations are available. Any person requiring further accommodation should contact the Town of Bluffton ADA Coordinator at 843.706.4500 or [adacoordinator@townofbluffton.com](mailto:adacoordinator@townofbluffton.com) as soon as possible but no later than 48 hours before the scheduled event.*

*\*Please note that each member of the public may speak at one public comment session and a form must be filled out and given to the Town Clerk. Public comment is limited to 3 minutes per speaker.*

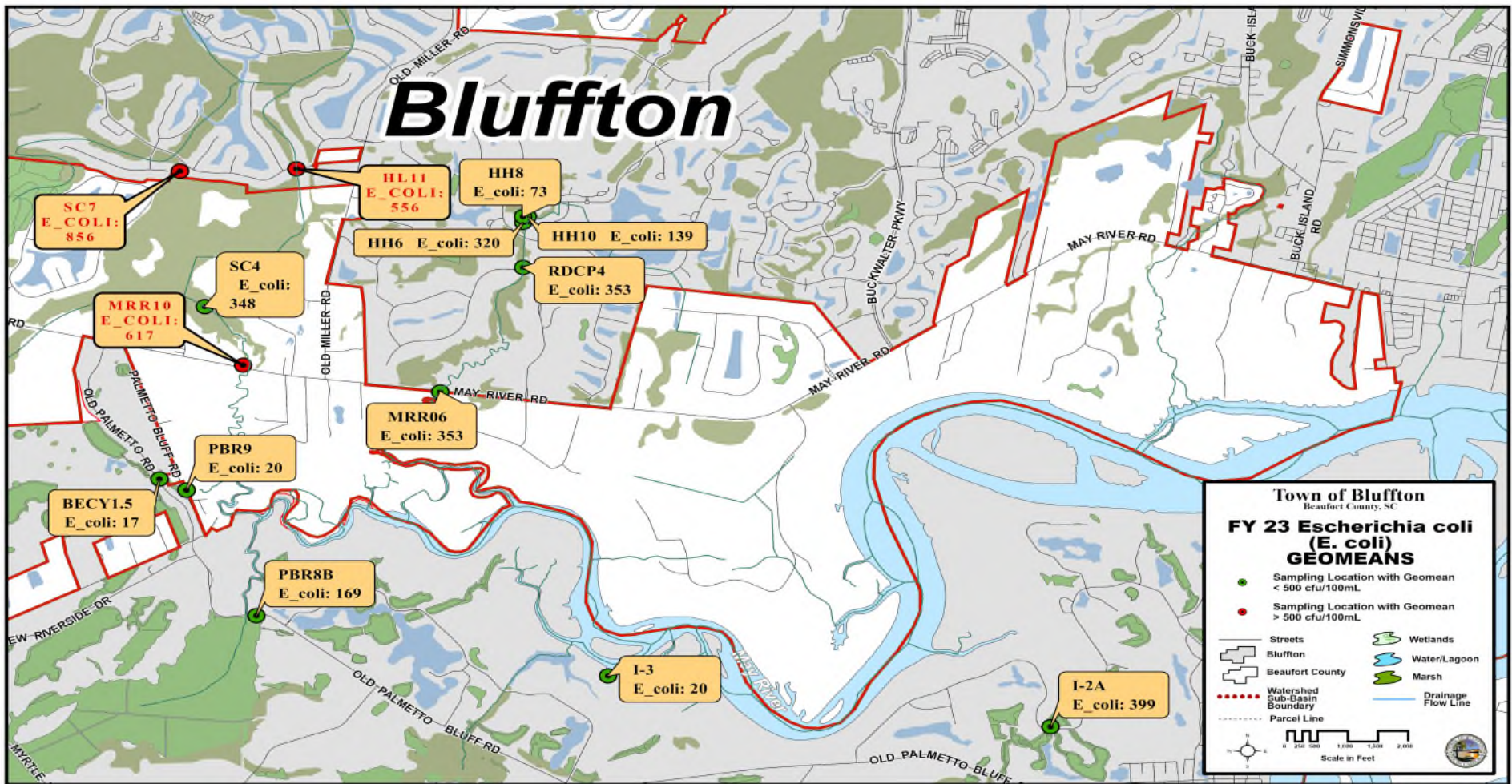
# MS4 Minimum Control Measure #3 – IDDE (Illicit Discharge Detection & Elimination): Stormwater Infrastructure Inventory



### Stormwater Infrastructure Inventory Collection Status

Collection Totals	16,670
FY 2024 YTD	13

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



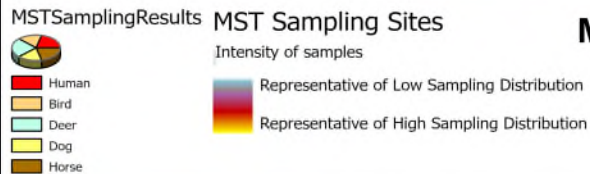
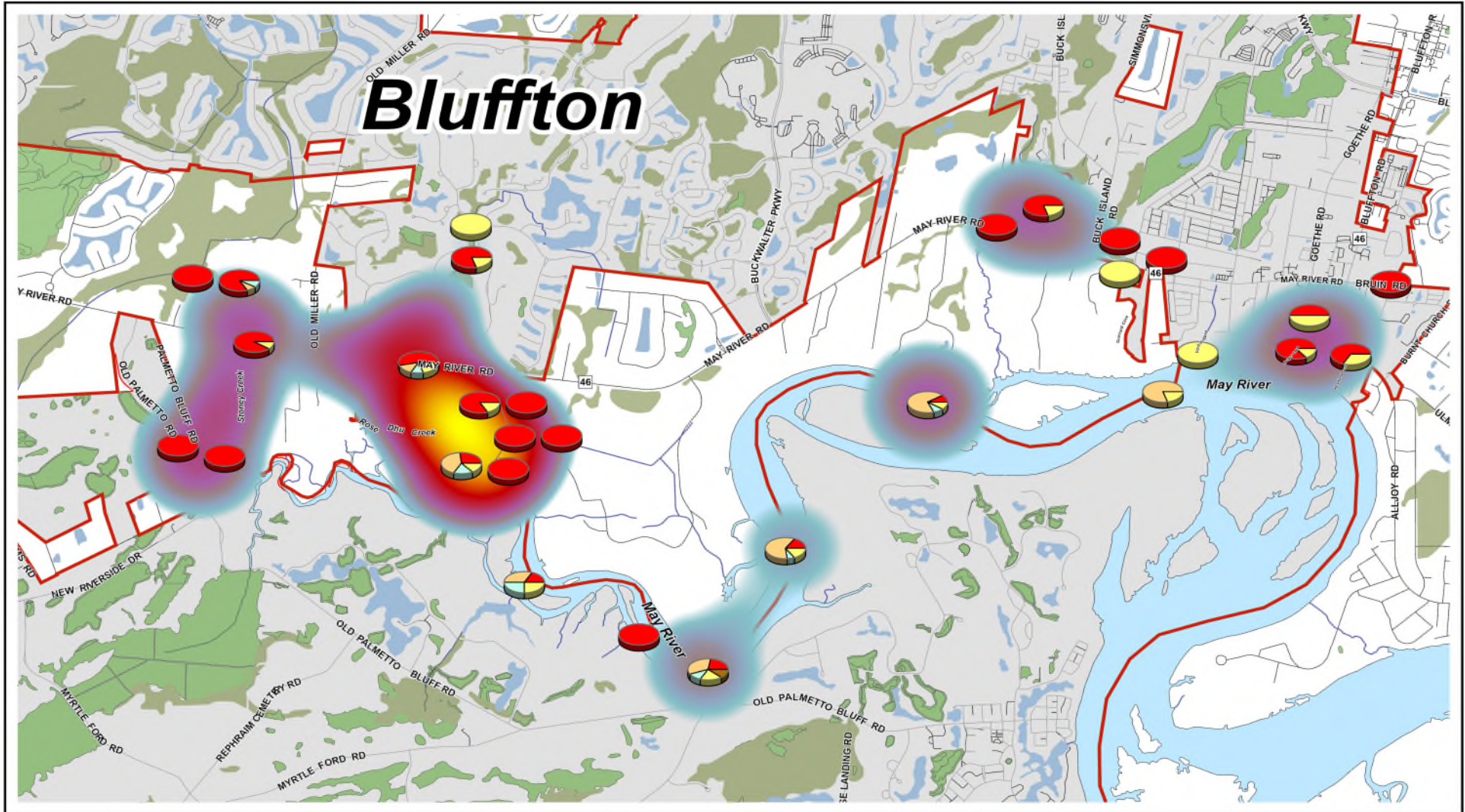
E. coli form geomeans updated as of: 8/15/2023

	USCB Water Quality Samples	Microbial Source Tracking Samples	MS4 Quarterly Samples Collected
FY 2024 YTD Totals	80	10	45
FY 2023 Totals	584	108	108
FY 2022 Totals	447	78	119

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



## MICROBIAL SOURCE TRACKING (MST) LOCATIONS

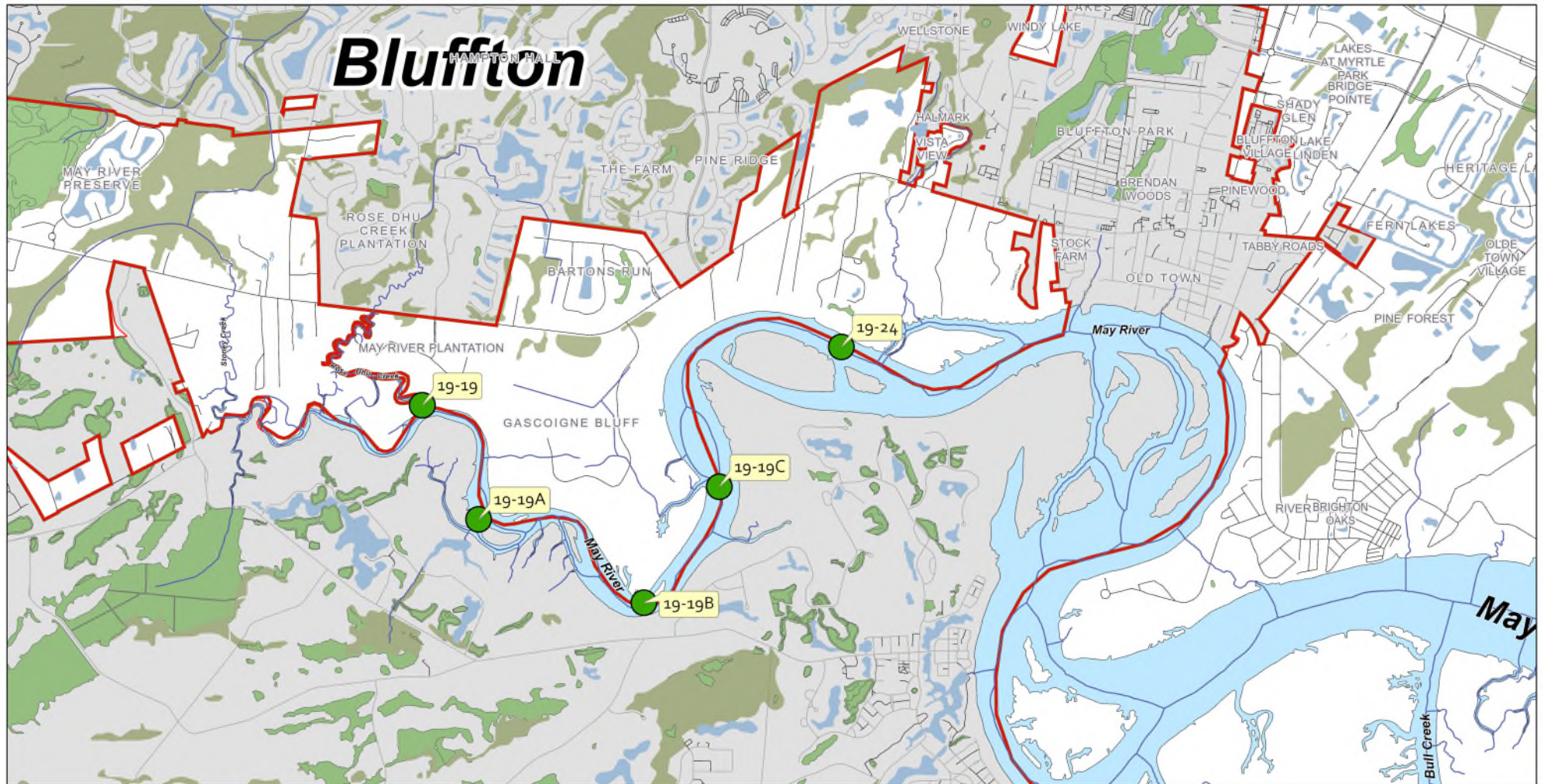
Samples at Sites With Positive Detection  
and the Intensity of Positive Hits

Town of Bluffton  
Beaufort County, SC



Updated Date: 8/15/2023

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

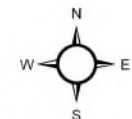


- MST Sampling Location Without Detection
- MST Sampling Location With Detection
- Flowline
- Street
- Town Jurisdiction
- County Jurisdiction

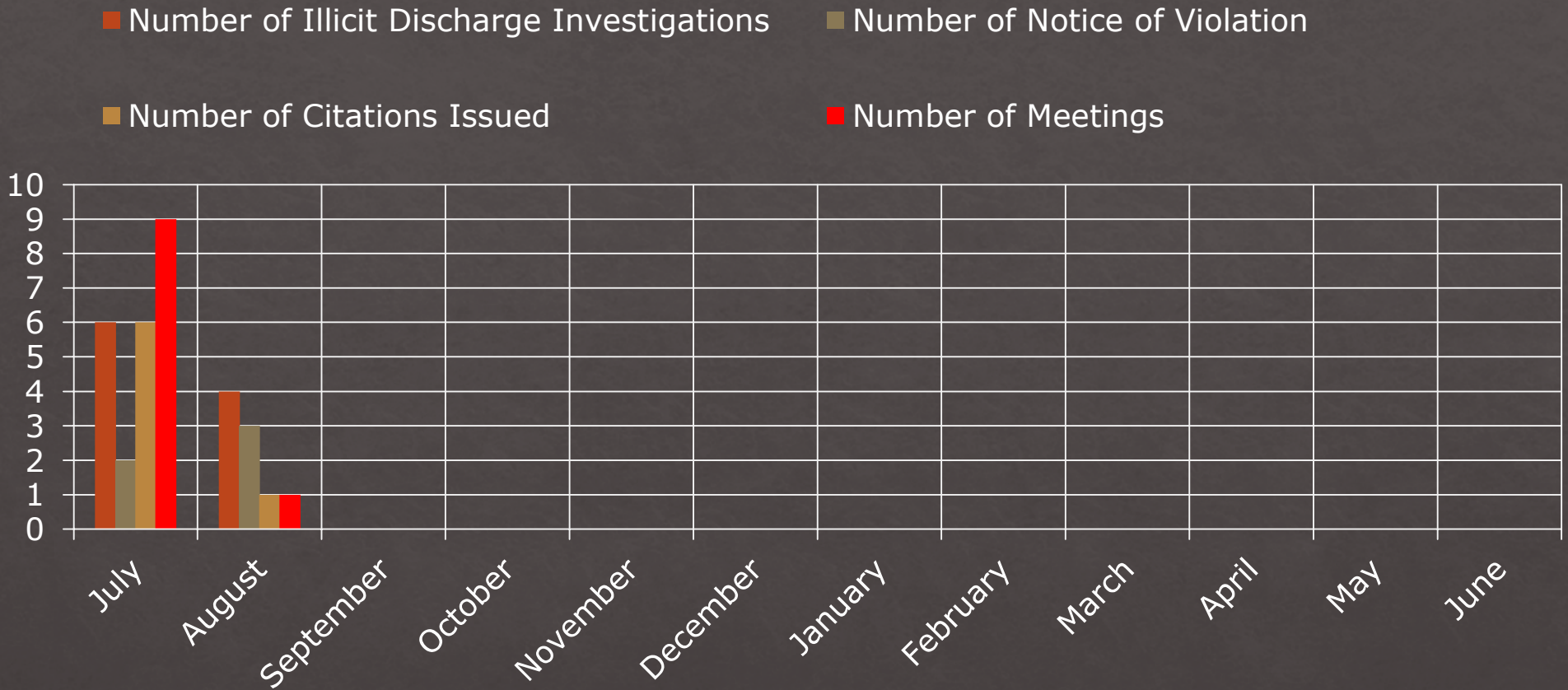
## MICROBIAL SOURCE TRACKING LOCATIONS

Sampling Results July 2023

Town of Bluffton  
Beaufort County, SC

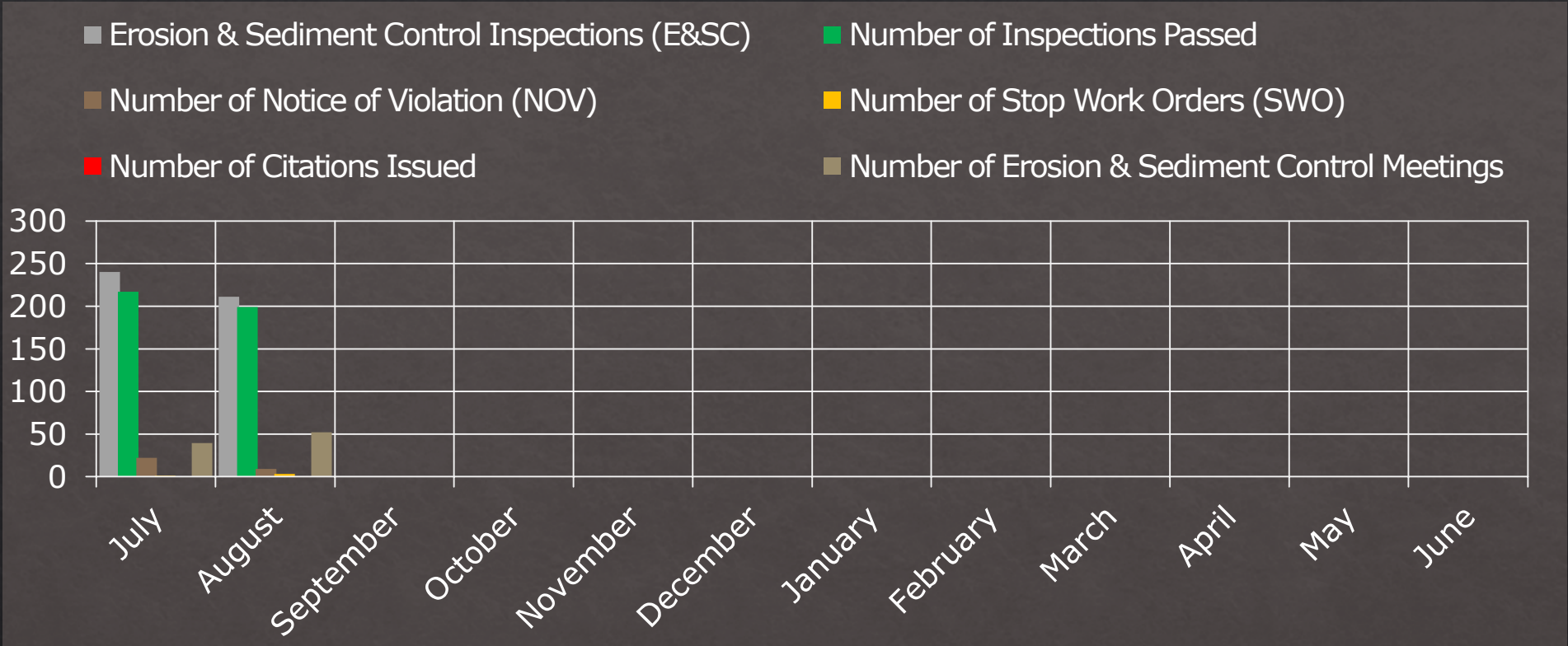


# MS4 Minimum Control Measure #3 – IDDE: Illicit Discharge Investigations



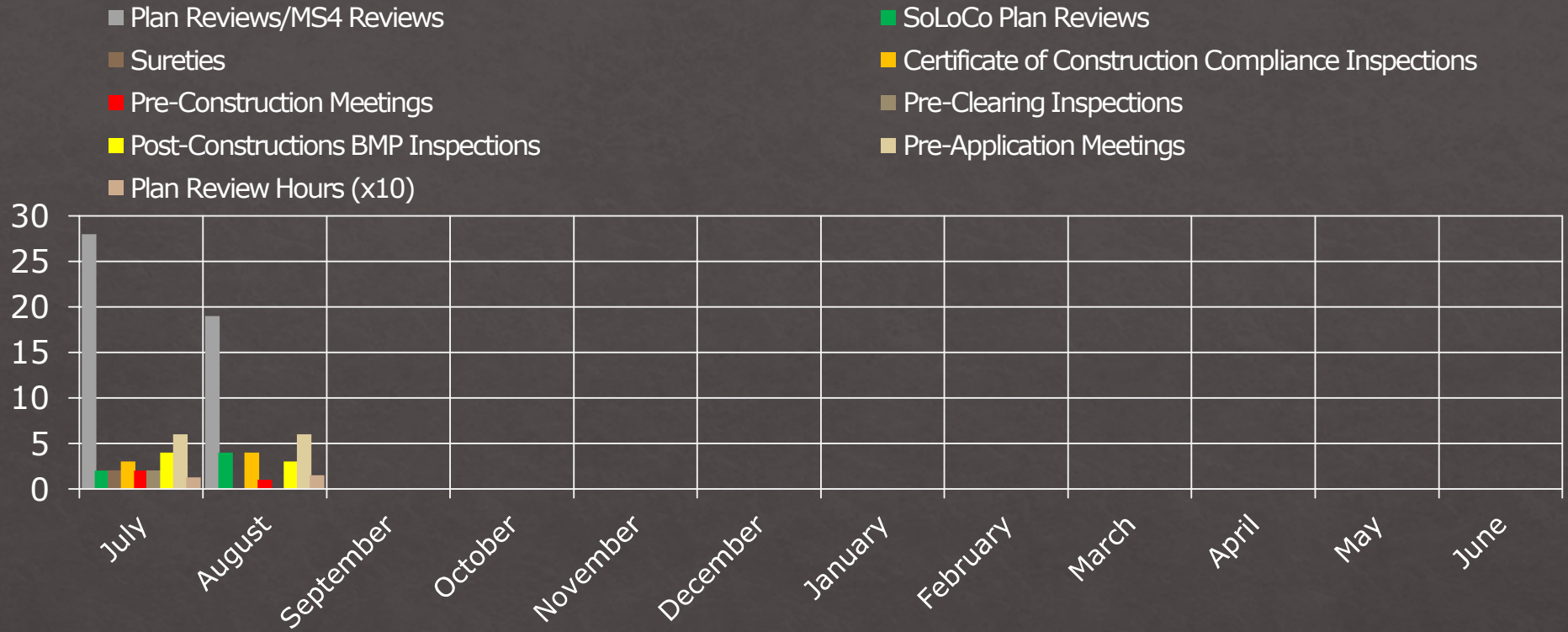
	Number of Illicit Discharge Investigations	Number of Notices of Violation Issued	Number of Citations Issued	Number of Meetings
FY 2024 YTD Totals	10	5	7	10
FY 2023 Totals	27	89	1	20
FY 2022 Totals	30	5	3	17

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



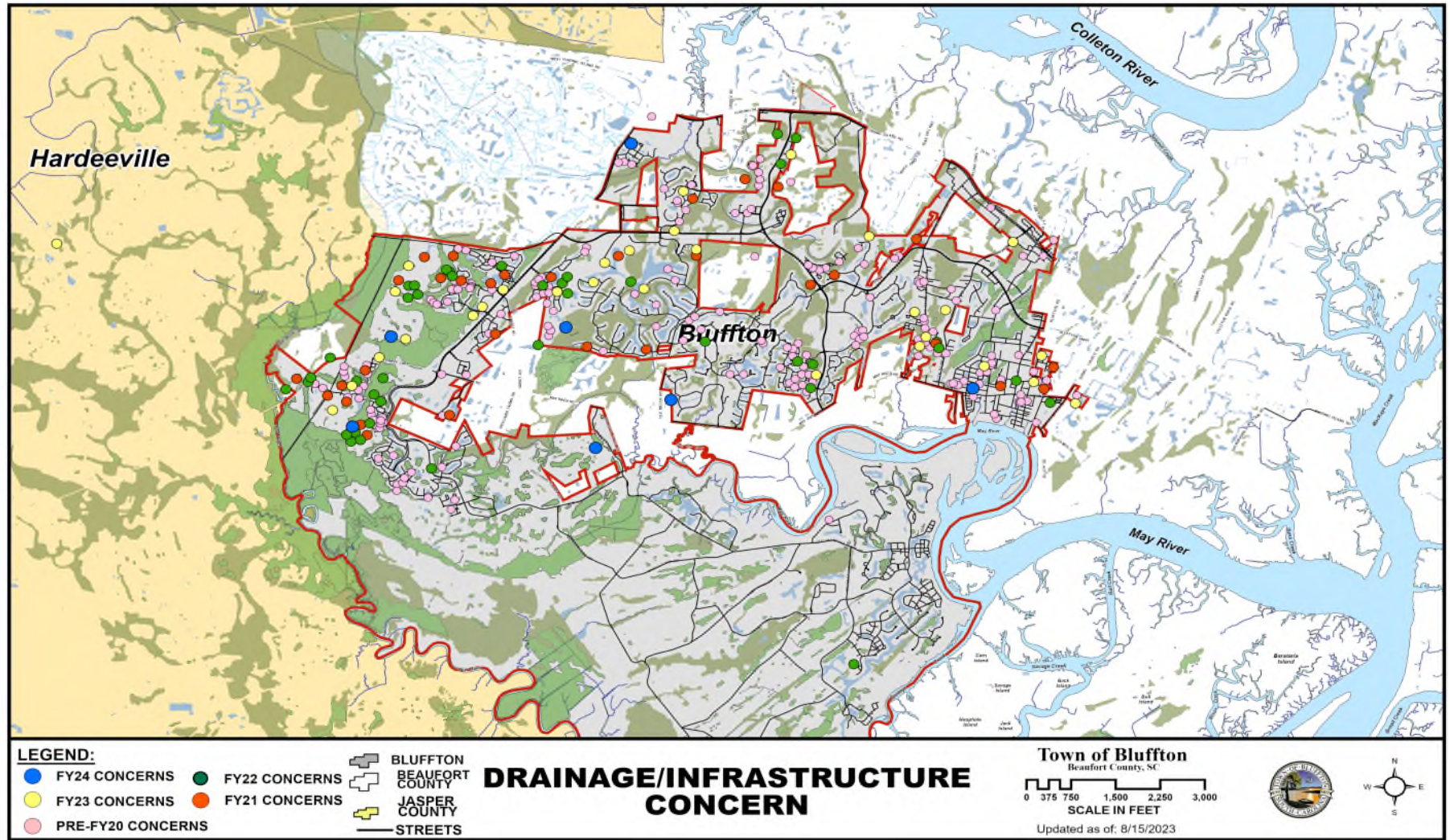
	Number of Sediment & Erosion Control Inspections	Number of Inspections Passed	Number of NOV's Issued	Number of SWO Issued	Number of Citations Issued	Number of E&SC Meetings
FY 2024 YTD Totals	451	416	31	4	0	91
FY 2023 Totals	2,321	2,030	266	26	0	577
FY 2022 Totals	3,127	2,701	392	49	0	673

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



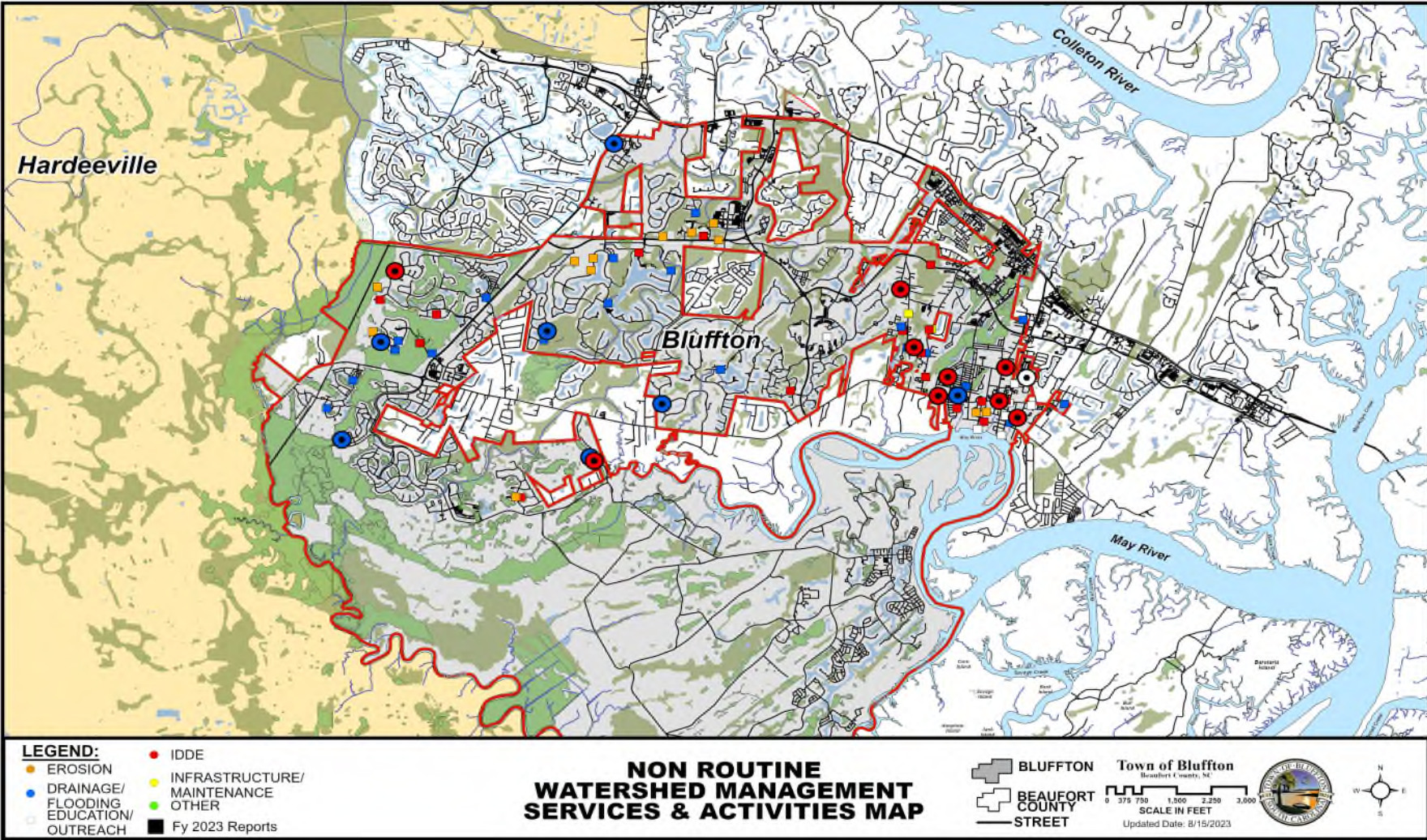
	Plan Reviews MS4 Reviews	SoLoCo Plan Reviews	Sureties	CCC Inspections	Pre-Construction Meetings	Pre-Clearing Inspections	Post Construction BMP Inspections	Pre-Application Meetings	Total Plan Review Hours
FY 2024 YTD	47	6	2	7	3	2	7	12	27.50 Hrs.
FY 2023 Totals	297	67	42	40	15	13	45	50	386 Hrs.
FY 2022 Totals	231	13	42	26	30	23	44	26	454 Hrs.

# Citizen Drainage, Maintenance and Inspections Concerns Map



	Number of Drainage Concerns Investigated	Number of Meetings
FY 2024 YTD Totals	7	0
FY 2023 Totals	61	52
FY 2022 Totals	38	34

# Citizen Request for Watershed Mngt. Services & Activities Map



	Number of Citizen Requests Investigated	Number of Meetings
FY 2024 YTD Totals	15	13
FY 2023 Totals	46	23
FY 2022 Totals	33	21

# FY24 CIP Master Project Schedule

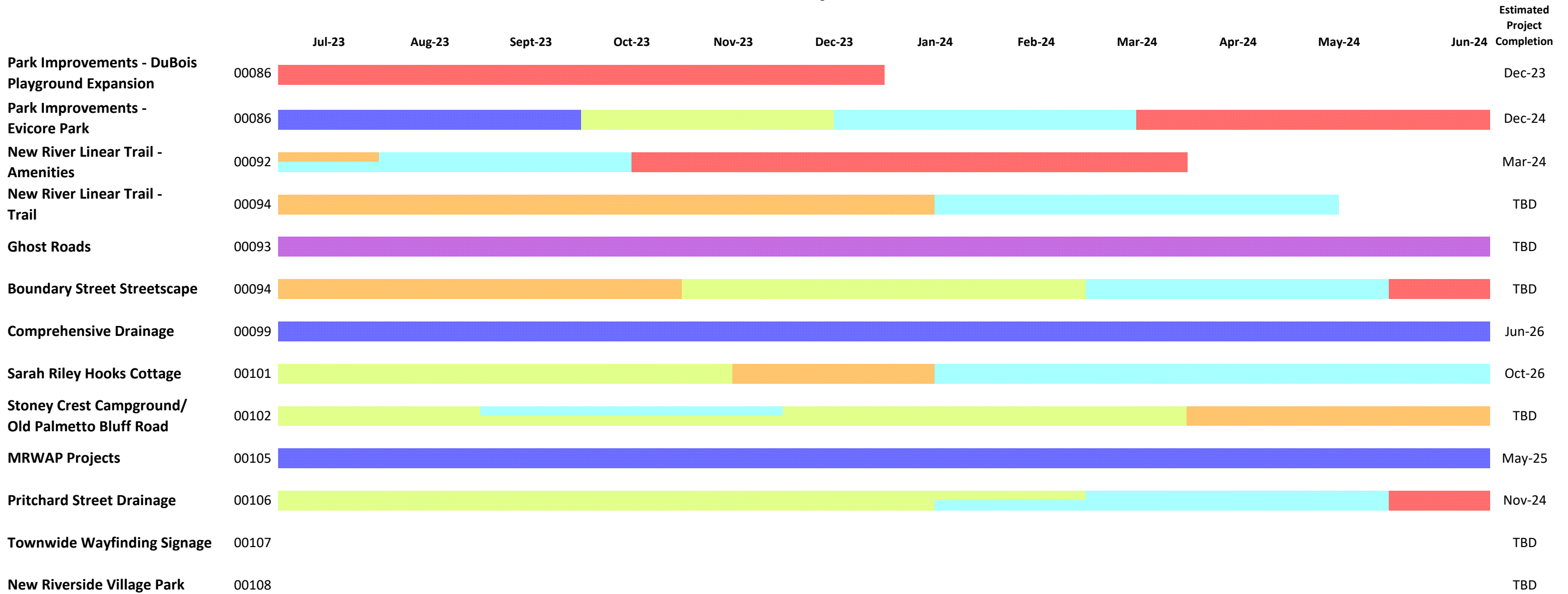


■ Planning & Conceptual Design
 ■ Final Design & Construction Documents
 ■ Permitting
 ■ Easement & Land Acquisition
 ■ Bidding & Contracts
 ■ Construction

\*SUBJECT TO CHANGE\*



# FY24 CIP Master Project Schedule



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

\*SUBJECT TO CHANGE\*



## MEMORANDUM

Date: September 07, 2023

To: Stormwater Management Utility Board

From: Stephen Carter, Stormwater Infrastructure Superintendent

Re: **Maintenance Project Report**

This report will cover five minor or routine projects. The Project Summary Reports are attached.

### **Minor or Routine Projects:**

- **Bluffton Tree Removal – Bluffton (4):** The scope of work included removing trees from roadside ditches and workshelves. The total cost was **\$35,963.00**.
- **Port Royal Island Tree Removal – Port Royal Island (6,9):** The scope of work included removing trees from roadside ditches and workshelves. The total cost was **\$6,543.63**.
- **Port Royal Island Valley Drain – Port Royal Island (6,9):** This project improved 13,474 linear feet of drainage system. The scope of work included cleaning out 13,474 linear feet of valley drain. The total cost was **\$12,707.21**.
- **Sheldon Vacuum Truck – Sheldon (5):** This project improved 30 linear feet of drainage system. The scope of work included jetting (5) crossline pipes, (15) driveway pipes and 30 linear feet of roadside pipe. The total cost was **\$6,683.84**.
- **St Helena Island Vacuum Truck – St Helena Island (8):** The scope of work included cleaning out (26) catch basins, jetting (5) crossline pipes and (2) driveway pipes. The total cost was **\$9,505.56**.



**Beaufort County Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** Bluffton Tree Removal - Bluffton Parkway and Bluffton Road

**Activity:** Routine/Preventive Maintenance

**Duration:** 01/10/2023 - 05/23/2023

**Narrative Description of Project:**

Removed fallen trees from roadside and workshelf.

**2023-417/BlufftonTree Removal**

	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	2.00	\$67.46	\$0.00	\$0.00	\$0.00	\$41.64	\$109.10
DITCHI / Ditch - Inspection	16.00	\$376.20	\$62.25	\$41.60	\$0.00	\$128.72	\$608.77
HAUL / Hauling	8.00	\$284.64	\$152.48	\$142.44	\$0.00	\$175.68	\$755.24
ONJV / Onsite Job Visit	31.00	\$1,361.96	\$134.85	\$126.42	\$0.00	\$248.40	\$1,871.63
RMTRD / Remove trees - Ditch	765.00	\$19,838.00	\$1,666.50	\$1,584.88	\$0.00	\$9,528.89	\$32,618.26
<b>Grand Total</b>	<b>822.00</b>	<b>\$21,928.25</b>	<b>\$2,016.08</b>	<b>\$1,895.34</b>	<b>\$0.00</b>	<b>\$10,123.33</b>	<b>\$35,963.00</b>

**Before**



**During**

**(No Picture Available)**

**After**





Project: Bluffton Tree Removal- Bluffton Road Channel Map #1














Activity: Routine/ Preventive Maintenance

Project #: 2023-417

Township/SW Dist: Bluffton/4

Completed: May 2023

**Legend**

- Drainage Type**
-  Access Pipe
  -  Bleeder Pipe
  -  Channel Pipe
  -  Channel
  -  Stream
  -  Crossline Pipe
  -  Driveway Pipe
  -  Lateral
  -  Lateral Pipe
  -  River
  -  Road Pipe
  -  Roadside
  -  Roadside Pipe

0 3570 140 210 280 Feet

**1 inch = 210 feet**

Prepared By: BC Stormwater Management Utility

Date Print:08/21/23

File:C:\project summaries map\Bluffton Tree Removal- Bluffton Road Channel Map #1\_2023-417



Project: Bluffton Tree Removal- Bluffton Parkway  
Map #2

Activity: Routine/ Preventive Maintenance

Project #: 2023-417

Township/SW Dist: Bluffton/4

Completed: May 2023

Legend	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

0 475950 1,900 2,850 3,800 Feet

1 inch = 2,100 feet

Prepared By: BC Stormwater Management Utility

Date Print:08/21/23

File:C:\project summaries map\Bluffton Tree Removal- Bluffton Parkway\ Map #2\_2023-417



**Beaufort County Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** Port Royal Island Tree Removal - Ihly Farm Road, LH Nelson Drive, Depot Road and Parris Island Gateway.

**Activity:** Routine/Preventive Maintenance

**Duration:** 03/09/2023 - 06/21/2023

**Narrative Description of Project:**

Removed fallen trees from roadside and workshelf.

**2023-414A/Port Royal Island Tree Removal**

	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	1.00	\$33.73	\$0.00	\$0.00	\$0.00	\$20.82	\$54.55
HAUL / Hauling	29.00	\$904.46	\$552.74	\$481.74	\$0.00	\$567.24	\$2,506.18
RMTR / Remove trees-roads	8.00	\$259.26	\$153.28	\$28.70	\$0.00	\$160.04	\$601.28
RMTRW / Remove trees - Workshelf	60.00	\$1,785.52	\$290.72	\$144.28	\$0.00	\$1,161.10	\$3,381.62
<b>Grand Total</b>	<b>98.00</b>	<b>\$2,982.97</b>	<b>\$996.74</b>	<b>\$654.72</b>	<b>\$0.00</b>	<b>\$1,909.20</b>	<b>\$6,543.63</b>

**Before**

**(No Picture Available)**

**During**



**After**





Project: Port Royal  
Island Tree Removal-  
Ihly Farm Road  
Channel Map #1

Activity: Routine/  
Preventive  
Maintenance














Project #:  
2023-414A

Township/SW Dist:  
Port Royal Island/6,9

Completed:  
June 2023

**Legend**

**Drainage Type**

-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe

0 40 80 160 240 320  
Feet

**1 inch = 250 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 08/15/23

File: C:\project summaries map\Port Royal Island Tree Removal- Ihly Farms Road Channel Map #1\_2023-414A



Project: Port Royal  
Island Tree Removal-  
LH Nelson Subdivision  
Channel Map #2

Activity: Routine/  
Preventive  
Maintenance














Project #:  
2023-414A

Township/SW Dist:  
Port Royal Island/6,9

Completed:  
June 2023

### Legend

#### Drainage Type

-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe

0 2040 80 120 160  
Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 08/15/23

File: C:\project summaries map\Port Royal Island Tree Removal- LH Nelson Subdivision Channel Map #2\_2023-414A



Project: Port Royal  
Island Tree Removal-  
Depot Road Map #3

Activity: Routine/  
Preventive  
Maintenance

Project #:  
2023-414A














Township/SW Dist:  
Port Royal Island/6,9

Completed:  
June 2023



**Legend**

**Drainage Type**

-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe

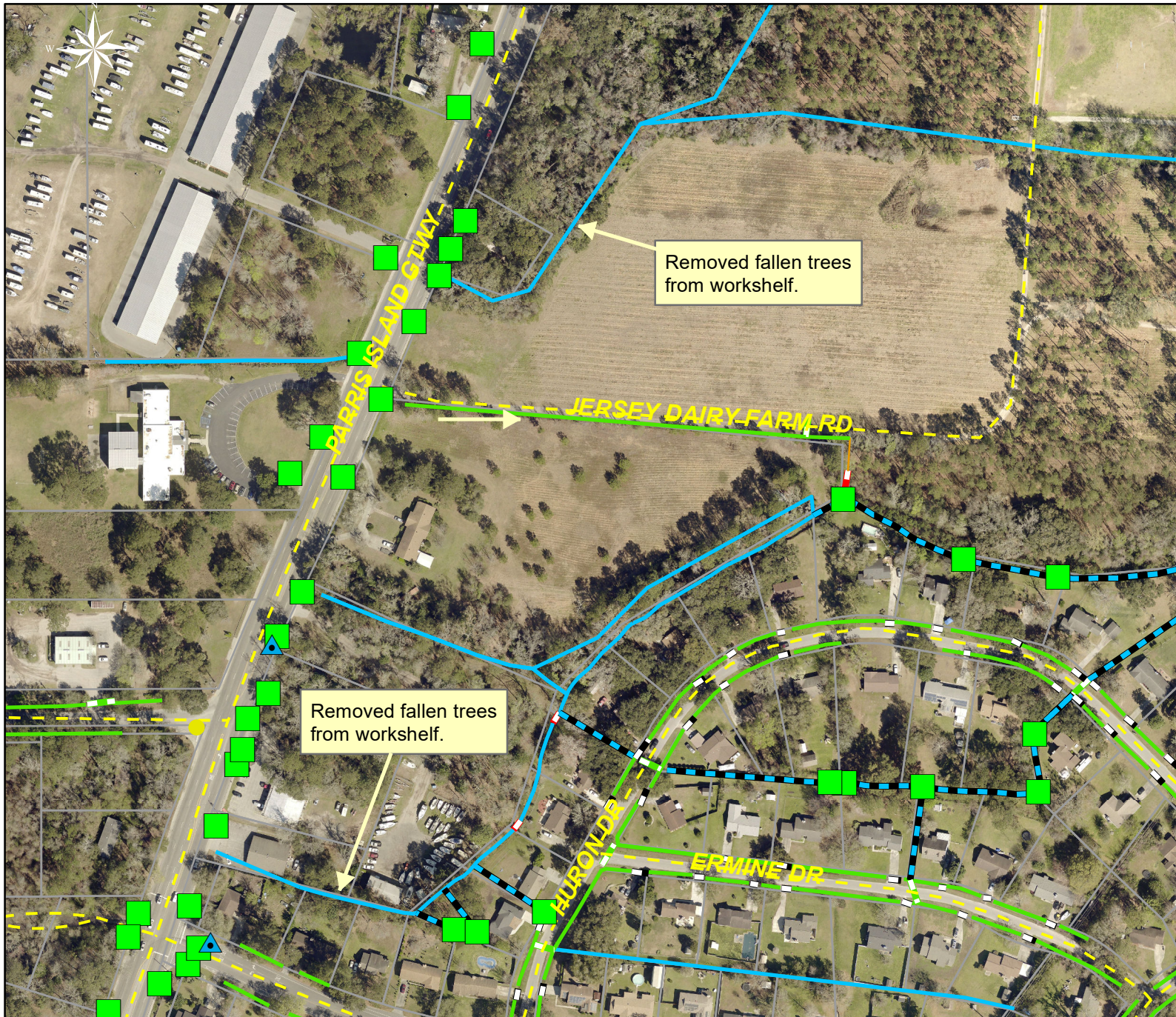
0 1530 60 90 120  
Feet

**1 inch = 130 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 08/15/23

File:C:\project summaries map\Port Royal Island Tree Removal- Depot Road Map #3\_2023-414A



Project: Port Royal  
Island Tree Removal-  
Parris Island Gateway  
Map #4

Activity: Routine/  
Preventive  
Maintenance

Project #:  
2023-414A

Township/SW Dist:  
Port Royal Island/6,9

Completed:  
June 2023

Legend	
<b>Drainage Type</b>	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

0 35 70 140 210 280  
Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 08/15/23

File: C:\project summaries map\Port Royal Island Tree Removal- Parris Island Gateway Map #4\_2023-414A



**Beaufort County Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** Port Royal Island Valley Drains

**Activity:** Routine/Preventive Maintenance

**Duration:** 01/12/2023 - 05/19/2023

**Narrative Description of Project:**

Project improved 13,474 L.F. of drainage system. Cleaned out 13,474 L.F. of valley drains. This project consisted of the following areas: Poppy Hill Circle (4,082 L.F.), Smalls Hill Road (1,460 L.F.), Roseida Road Ext (3,580 L.F.), Jay Street (1,712 L.F.), and Donaldson Camp Road (2,640 L.F.).

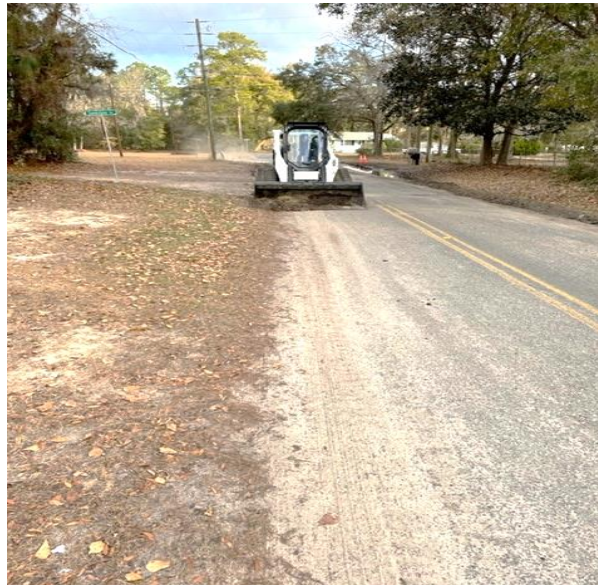
**2023-314 / Port Royal Island Valley Drains**

	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	2.50	\$84.33	\$0.00	\$0.00	\$0.00	\$52.05	\$136.38
COVD / Cleaned Out Valley Drains	151.00	\$3,986.14	\$733.73	\$392.29	\$0.00	\$2,483.19	\$7,595.35
HAUL / Hauling	44.00	\$1,333.24	\$838.64	\$386.77	\$0.00	\$836.40	\$3,395.05
ONJV / Onsite Job Visit	20.00	\$971.68	\$87.00	\$24.96	\$0.00	\$496.80	\$1,580.44
<b>Grand Total</b>	<b>217.50</b>	<b>\$6,375.38</b>	<b>\$1,659.37</b>	<b>\$804.02</b>	<b>\$0.00</b>	<b>\$3,868.44</b>	<b>\$12,707.21</b>

**Before**

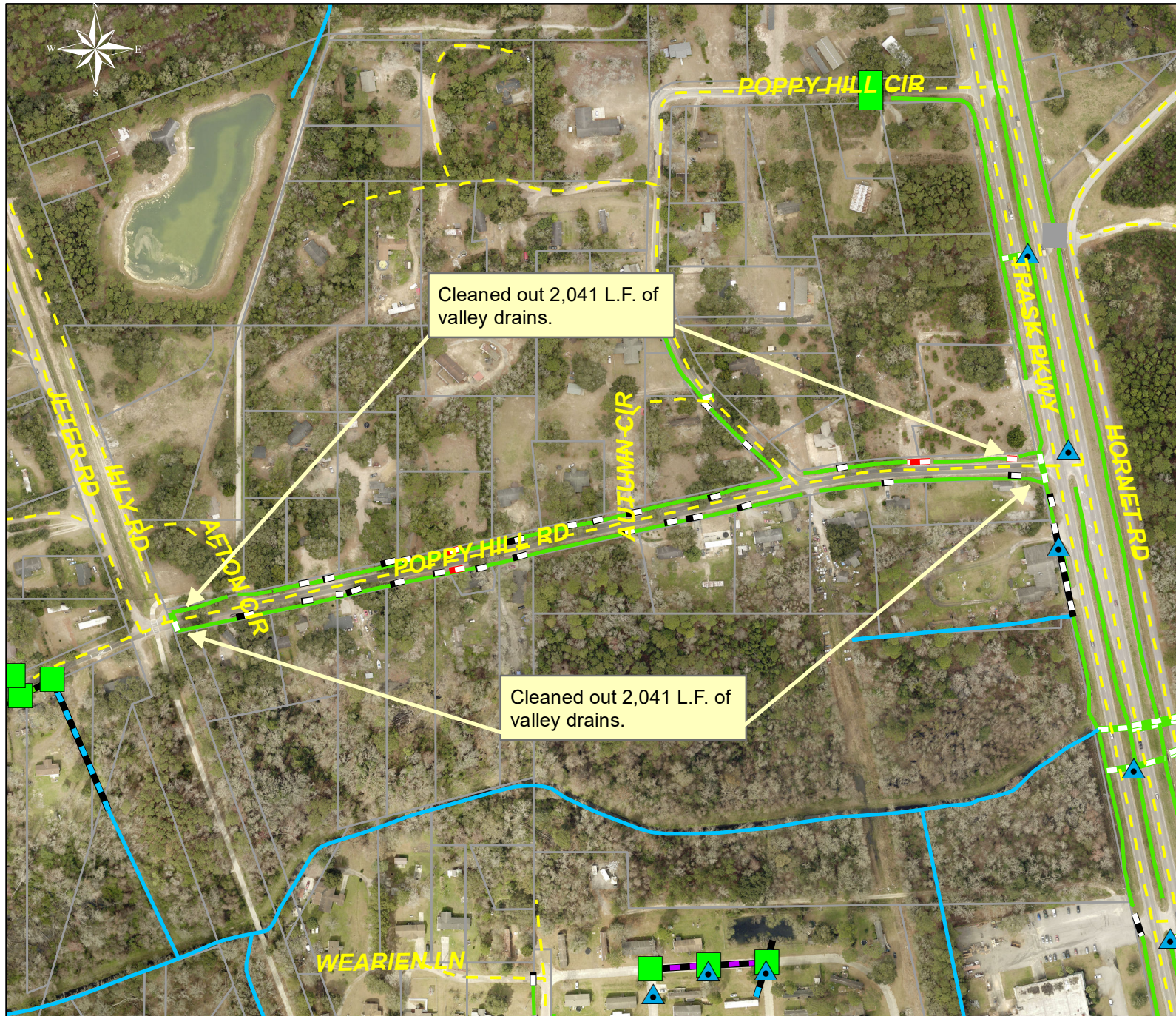


**During**



**After**





Project: Port Royal Island Valley Drains-  
Poppy Hill Circle  
Map #1

Activity: Routine/  
Preventive  
Maintenance














Project #:  
2023-314

Township/SW Dist:  
Port Royal Island/6,9

Completed:  
May 2023

**Legend**

**Drainage Type**

-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe

0 65 130 260 390 520  
Feet

**1 inch = 330 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 08/15/23

File: C:\project summaries map\Port Royal Island Valley Drains- Poppy Hill Road Map#1\_2023-314

Project: Port Royal Island Valley Drains-  
Smalls Hill Road  
Map #2

Activity: Routine/  
Preventive  
Maintenance

Project #:  
2023-314














Township/SW Dist:  
Port Royal Island/6,9

Completed:  
May 2023



**Legend**

**Drainage Type**

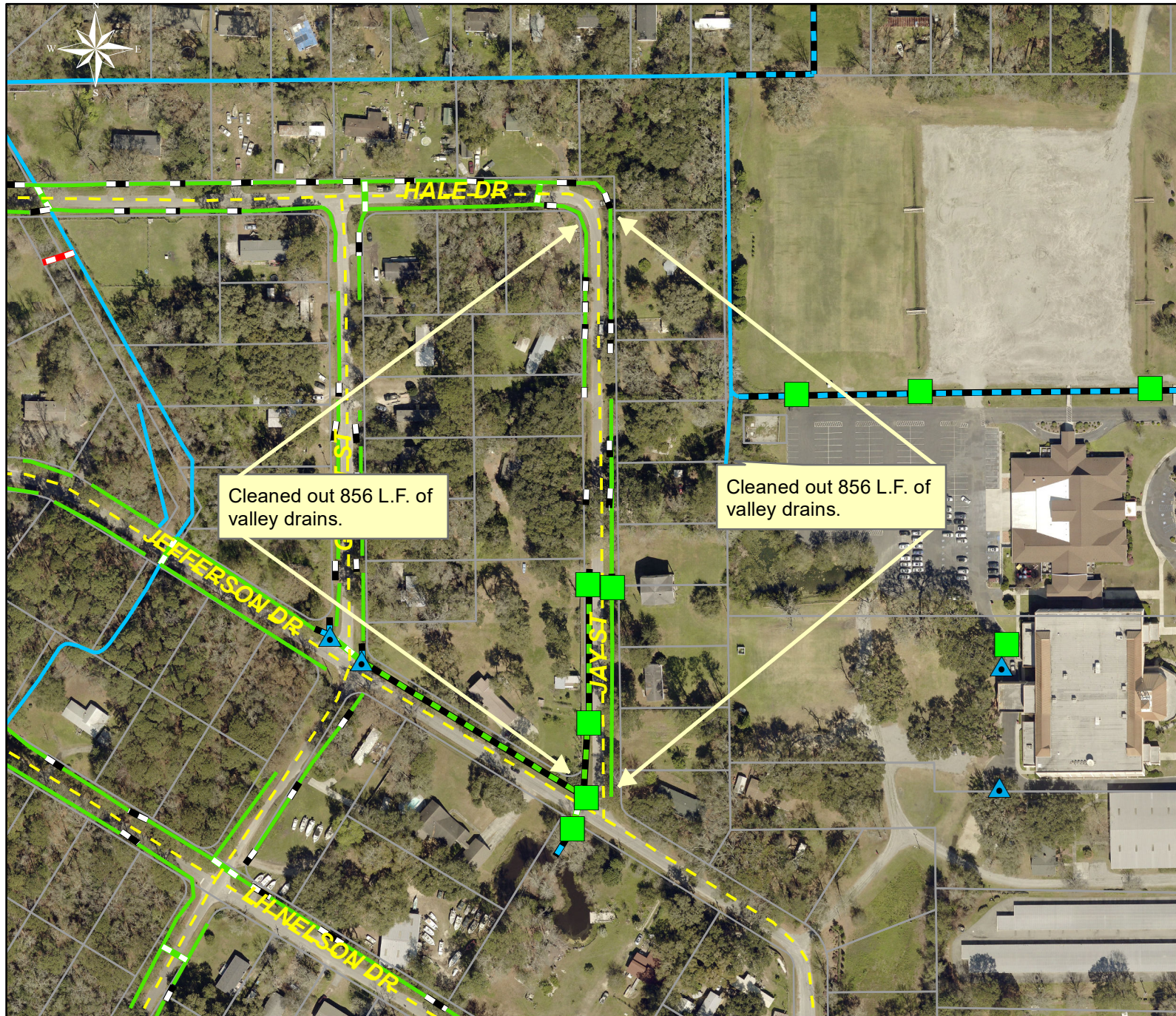
-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe



1 inch = 130 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 08/15/23

File: C:\project summaries map\Port Royal Island Valley Drains- Smalls Hill Road Map#2\_2023-314



Project: Port Royal  
Island Valley Drains-  
Jay Street  
Map #3

Activity: Routine/  
Preventive  
Maintenance














Project #:  
2023-314

Township/SW Dist:  
Port Royal Island/6,9

Completed:  
May 2023

**Legend**

**Drainage Type**

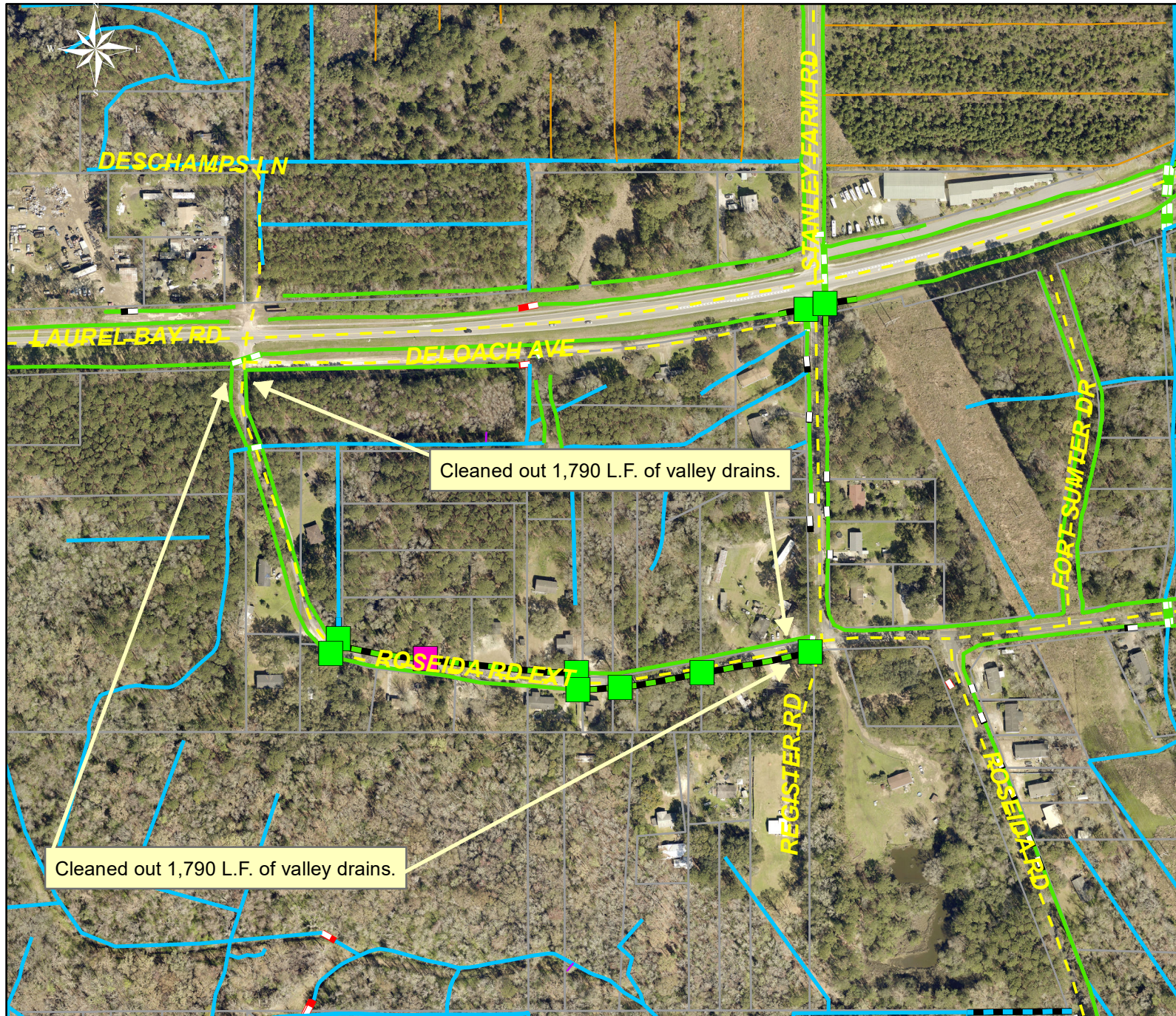
-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe

0 40 80 160 240 320  
Feet

1 inch = 210 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 08/15/23

File: C:\project summaries map\Port Royal Island Valley Drains- Jay Street Map#3\_2023-314



Project: Port Royal Island Valley Drains-  
Roseida Road EXT  
Map #4

Activity: Routine/  
Preventive  
Maintenance

Project #:  
2023-314

Township/SW Dist:  
Port Royal Island/6,9

Completed:  
May 2023

### Legend

#### Drainage Type

- Access Pipe
- Bleeder Pipe
- Channel Pipe
- Channel
- Stream
- Crossline Pipe
- Driveway Pipe
- Lateral
- Lateral Pipe
- River
- Road Pipe
- Roadside
- Roadside Pipe

0 65 130 260 390 520  
Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 08/15/23

File: C:\project summaries map\Port Royal Island Valley Drains- Roseida Road EXT Map#4\_2023-314



Project: Port Royal Island Valley Drains- Donaldson Camp Road Map #5

Activity: Routine/ Preventive Maintenance














Project #: 2023-314

Township/SW Dist: Port Royal Island/6,9

Completed: May 2023

**Legend**

**Drainage Type**

-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe

0 30 60 120 180 240 Feet

**1 inch = 160 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 08/15/23

File: C:\project summaries map\Port Royal Island Valley Drains- Donaldson Camp Road Map#5\_2023-314





**Beaufort County Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** Sheldon Vacuum Truck  
 Twickenham Road, Paige Point Bluff, Huspah Creek Drive,  
 Floyd Road and Oree Road.

**Activity:** Routine/Preventive Maintenance  
**Duration:** 08/30/2022 - 03/28/2023

**Narrative Description of Project:**

Project improved 30 L.F. of drainage system. Jetted (5) crossline pipes, (15) driveway pipes and 30 L.F. of roadside pipe.

**2023-308 / Sheldon Vacuum Truck**

	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	1.50	\$50.60	\$0.00	\$0.00	\$0.00	\$31.23	\$81.83
CLPJT / Crossline Pipe - Jetted	20.00	\$526.66	\$170.68	\$277.28	\$0.00	\$217.84	\$1,192.46
DITCHI / Ditch - Inspection	2.00	\$83.44	\$8.70	\$14.40	\$0.00	\$0.00	\$106.54
DPJT / Driveway Pipe - Jetted	32.00	\$967.77	\$553.88	\$263.03	\$0.00	\$555.46	\$2,340.14
HAUL / Hauling	8.00	\$239.76	\$152.48	\$146.25	\$0.00	\$152.48	\$690.97
ONJV / Onsite Job Visit	12.00	\$500.64	\$52.20	\$19.66	\$0.00	\$0.00	\$572.50
SD / Soft Digging	40.00	\$978.51	\$135.12	\$45.05	\$0.00	\$540.72	\$1,699.40
<b>Grand Total</b>	<b>115.50</b>	<b>\$3,347.38</b>	<b>\$1,073.06</b>	<b>\$765.67</b>	<b>\$0.00</b>	<b>\$1,497.73</b>	<b>\$6,683.84</b>

**Before**



**During**

**(No Picture Available)**

**After**





Project: Sheldon Vacuum Truck-Twickenham Road Map #1

Activity: Routine/ Preventive Maintenance














Project #: 2023-308

Township/SW Dist: Sheldon/5

Completed: March 2023

**Legend**

**Drainage Type**

-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe



**1 inch = 830 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 06/21/23

File: C:\project summaries map\Sheldon Vac Truck- Twickenham Road Map #1\_2023-308



Project: Sheldon Vacuum Truck- Huspah Creek Drive Map #2

Activity: Routine/ Preventive Maintenance














Project #: 2023-308

Township/SW Dist: Sheldon/5

Completed: March 2023

**Legend**

**Drainage Type**

-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe



**1 inch = 270 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 06/21/23

File: C:\project summaries map\Sheldon Vacuum Truck- Huspah Creek Drive Map #2\_2023-308



Project: Sheldon Vacuum Truck- Paige Point Bluff Map #3

Activity: Routine/ Preventive Maintenance














Project #: 2023-308

Township/SW Dist: Sheldon/5

Completed: March 2023

**Legend**

**Drainage Type**

-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe

0 2550 100 150 200 Feet

**1 inch = 170 feet**

Prepared By: BC Stormwater Management Utility

Date Print:06/21/23

File:C:\project summaries map/Sheldon Vacuum Truck- Paige Point Bluff Map #3\_2023-308



Project: Sheldon Vacuum Truck-Oree Road Map #4

Activity: Routine/ Preventive Maintenance

Project #: 2023-308

Township/SW Dist: Sheldon/5

Completed: March 2023

**Legend**

**Drainage Type**

- Access Pipe
- Bleeder Pipe
- Channel Pipe
- Channel
- Stream
- Crossline Pipe
- Driveway Pipe
- Lateral
- Lateral Pipe
- River
- Road Pipe
- Roadside
- Roadside Pipe

0 60 120 240 360 480 Feet

**1 inch = 250 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 06/21/23

File: C:\project summaries map\Sheldon Vac Truck- Oree Road Map #4\_2023-308



Project: Sheldon  
Vacuum Truck-  
Floyd Road  
Map #5

Activity: Routine/  
Preventive  
Maintenance














Project #:  
2023-308

Township/SW Dist:  
Sheldon/5

Completed:  
March 2023

### Legend

#### Drainage Type

-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe



**1 inch = 210 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 06/21/23

File: C:\project summaries map\Sheldon Vac Truck- Floyd Road Map #5\_2023-308



**Beaufort County Public Works**  
**Stormwater Infrastructure**  
Project Summary

**Project Summary:** St Helena Island Vacuum Truck  
Levant Byas Road, Tombee Road, Luther Warren Drive and  
Chisholm Road

**Activity:** Routine/Preventive Maintenance  
**Duration:** 01/03/2023 - 06/15/2023

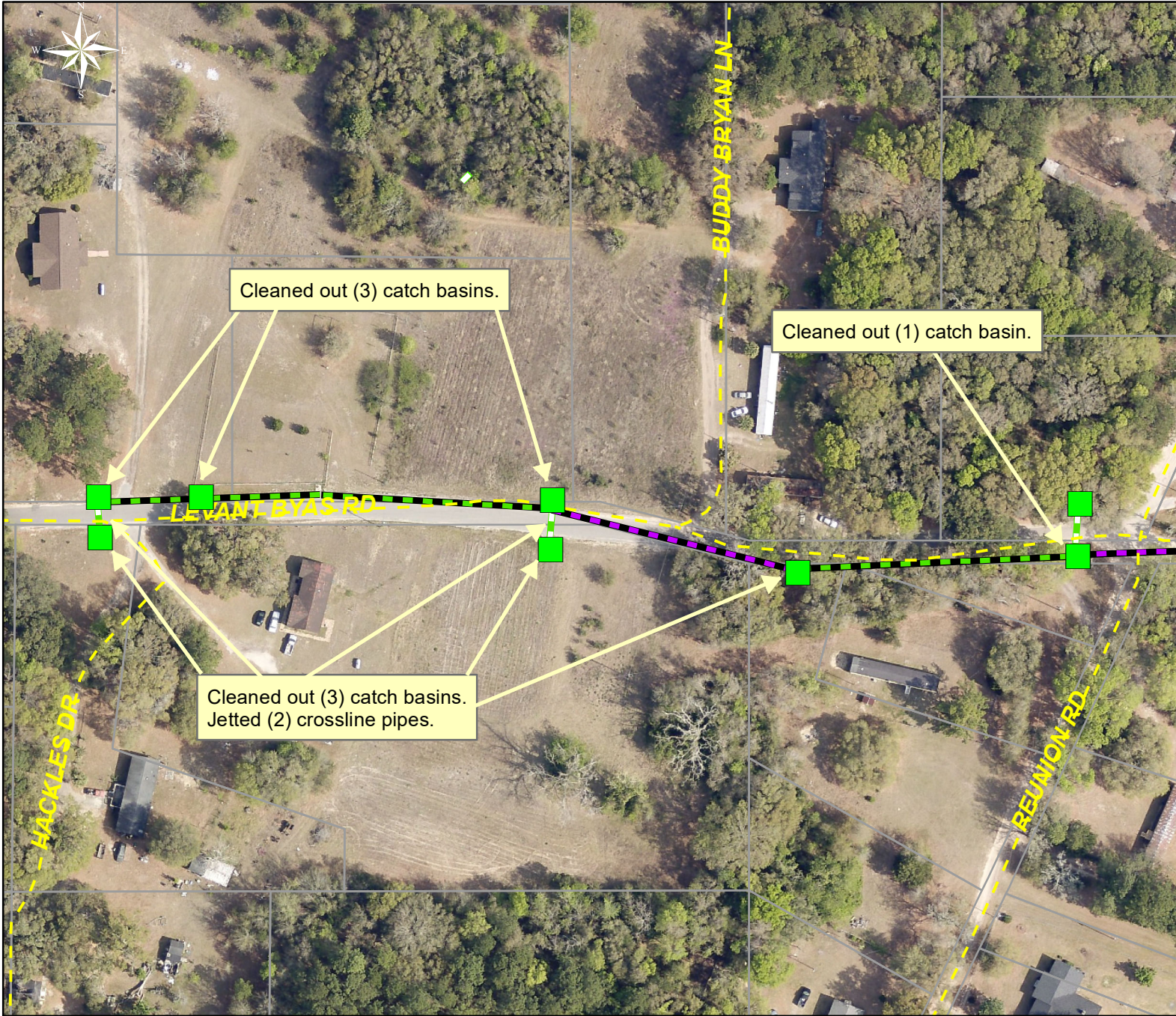
**Narrative Description of Project:**

Cleaned out (26) catch basins and jetted (5) crossline pipes and (2) driveway pipes.

**2023-309A / St Helena Island Vacuum Truck**

	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	1.00	\$33.73	\$0.00	\$0.00	\$0.00	\$20.82	\$54.55
CBCO / Catch basin - clean out	124.00	\$3,922.08	\$2,566.08	\$904.33	\$0.00	\$2,058.52	\$9,451.01
<b>Grand Total</b>	<b>125.00</b>	<b>\$3,955.81</b>	<b>\$2,566.08</b>	<b>\$904.33</b>	<b>\$0.00</b>	<b>\$2,079.34</b>	<b>\$9,505.56</b>

**(No Pictures Available)**



Project: St. Helena  
Island Vacuum  
Truck - Levant Byas  
Road Map #1

Activity: Routine/  
Preventive  
Maintenance

Project #:  
2023-309A

Township/SW Dist:  
St. Helena Island/8

Completed:  
June 2023

### Legend

- Drainage Type**
- Access Pipe
  - Bleeder Pipe
  - Channel Pipe
  - Channel
  - Stream
  - Crossline Pipe
  - Driveway Pipe
  - Lateral
  - Lateral Pipe
  - River
  - Road Pipe
  - Roadside
  - Roadside Pipe

0 30 60 120 180 240  
Feet

1 inch = 130 feet

Prepared By: BC Stormwater Management Utility

Date Print: 06/19/23

File: C:\project summaries map\SHI Vacuum Truck- Levant Byas Road Map #1\_2023-309A





Project: St. Helena Island Vacuum Truck - Tombee Road Map #2

Activity: Routine/ Preventive Maintenance

Project #: 2023-309A

Township/SW Dist: St. Helena Island/8

Completed: June 2023

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe



1 inch = 420 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 06/19/23

File:C:\project summaries map\SHI Vacuum Truck- Tombee Road Map #2\_2023-309A



Project: St. Helena  
Island Vacuum  
Truck - Luther  
Warren Drive  
Map #3

Activity: Routine/  
Preventive  
Maintenance

Project #:  
2023-309A

Township/SW Dist:  
St. Helena Island/8

Completed:  
June 2023

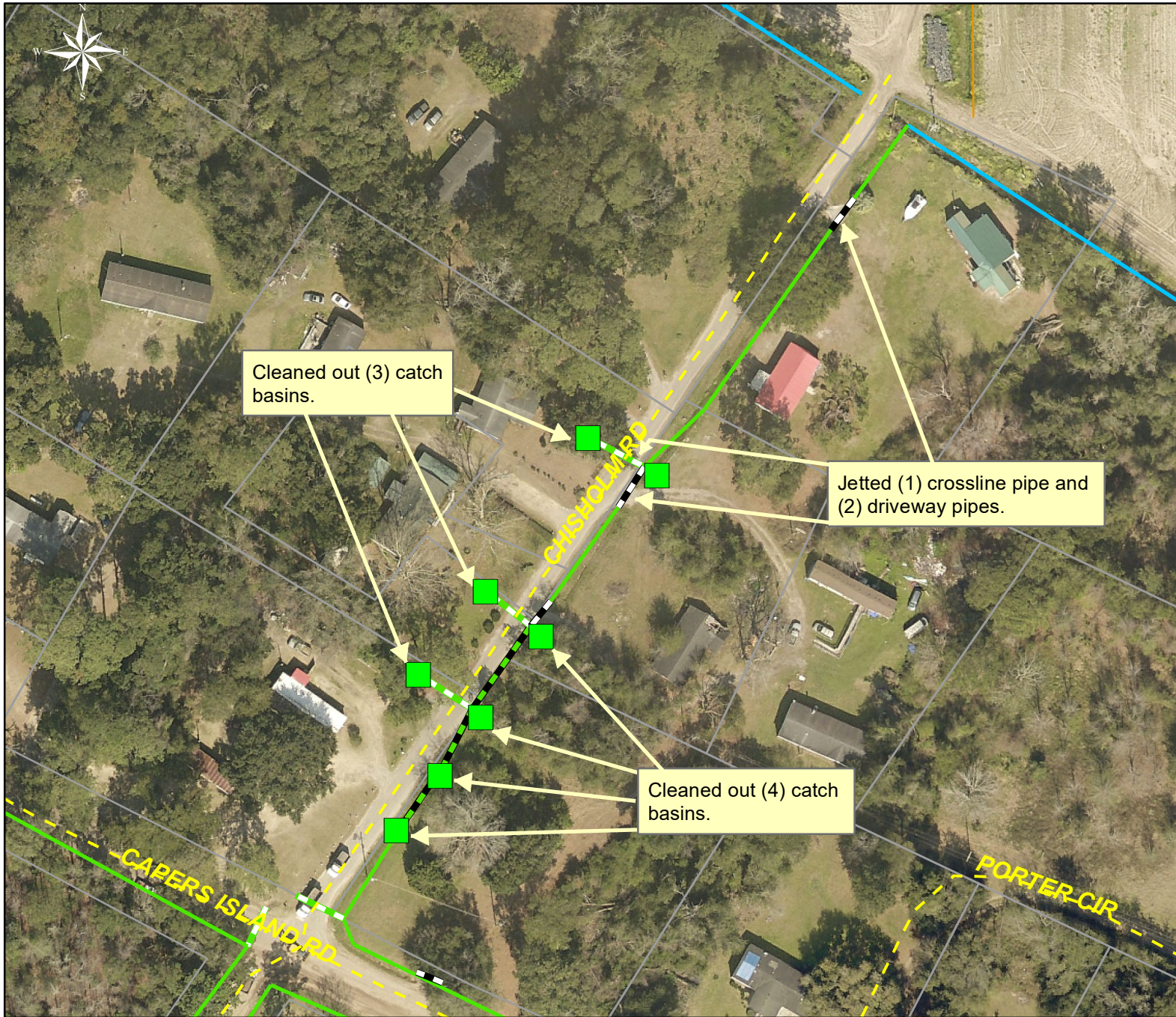
Legend	
<b>Drainage Type</b>	
Access Pipe	
Bleeder Pipe	
Channel Pipe	
Channel	
Stream	
Crossline Pipe	
Driveway Pipe	
Lateral	
Lateral Pipe	
River	
Road Pipe	
Roadside	
Roadside Pipe	

0 50 100 200 300 400  
Feet

1 inch = 210 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 08/22/23

File:C:\project summaries map\SHI Vacuum Truck- Luther Warren Drive Map #3\_2023-309A



Project: St. Helena Island Vacuum Truck - Chisholm Road Map #4

Activity: Routine/ Preventive Maintenance

Project #: 2023-309A

Township/SW Dist: St. Helena Island/8

Completed: June 2023

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe



1 inch = 100 feet

Prepared By: BC Stormwater Management Utility

Date Print: 08/22/23

File:C:\project summaries map\SHI Vacuum Truck- Chisholm Road Map #4\_ 2023-309A

### Board Consolidation Update

At the request of County Council, Public Works staff have been working to consolidate the three boards the Environmental team report to. These efforts will be presented during the Finance, Administration, and Economic Development Committee on October 16<sup>th</sup> at 3pm. County staff will be meeting with the Legal Department and Boards and Commissions staff in late September to review the findings prior to the October 16<sup>th</sup> meeting. Staff will have a better update at the October 18<sup>th</sup> Stormwater Utility Board meeting.

Please reach out to Neil Desai, the Public Works Director, if you have any questions.



## Beaufort County Stormwater Management Utility Board (SWMU Board) Meeting Minutes

August 16th, 2023, at 2:00 p.m.

County Council Chambers, 100 Ribaut Rd, Beaufort, SC

### Board Members

#### Present

James Clark  
Marc Feinberg  
Ron Buchanan  
Dennis Ross  
Ed Warner  
Ellen Sturup Comeau  
Jacob Terry

#### Absent

Steve Andrews

### Ex-Officio Members

#### Present

#### Absent

Nate Farrow  
Jeff Netzinger

### Beaufort County Staff

Katie Herrera  
Linda Augustine  
Dafiney Butler  
Pamela Cobb  
Stephen Carter

### Visitors

Alice Howard, County Council

#### 1. Meeting called to order – Marc Feinberg at 2:00 pm

- A. Agenda – Approved
- B. Approval of Minutes – Approved

#### 2. Introductions – Completed.

#### 3. Public Comment(s) – None.

#### 4. Special Shout Out – Welcome Dafiney Butler aboard as the new Environmental Assistant.

#### 5. Reports

*Reports attached in agenda*

#### **Highlights:**

##### A. Utility Update – Katie Herrera

- ✓ Stormwater Utility Budget was approved by County Council.
- ✓ Southern Lowcountry Regional Board (SoLoCo)
  - Amendments were approved in late January and Beaufort County continues to coordinate with other implementing partners.

- ✓ Special Presentation
  - Chairman Feinberg requested the Board members to discuss a potential fall meeting, location TBD. Katie Herrera mentioned possibly the Church of God, Cypress Wetlands, or the Town of Bluffton.
  - 6 different areas where we have projects going on (take a look at those).
- ✓ Annual Financial Report
  - After the discussion with the Municipalities last year, unaudited information was fine due to them not coming into compliance until a later date.
  - C/O of fiscal year 2023

## **B. Monitoring Update – Katie Herrera**

### ***Highlights:***

- ✓ The Current Principal Investigator has resigned from her position effective August 18<sup>th</sup>.
- ✓ USCB is considering rewriting the Memorandum of understanding in place. USCB is still operating under the previous MOU for Beaufort County.
- ✓ County Installed a continuous monitoring sampling station on the 278 overpass.
  - It's been collecting data as of 8/15/2023.

## **C. Stormwater Implementation Committee (SWIC) Report – Katie Herrera**

### ***Highlights:***

- ✓ Staff met last Friday to talk about the CWI fee report. The report will be out by August 16<sup>th</sup>.

## **D. Regional Coordination – Katie Herrera**

- ✓ Katie Herrera provided an update on the status of the Old Woodlands neighborhood and the driveway replacements have been completed. There has also been a surveyor engaged to survey the drainage easement, and this too has been completed.
- ✓ Town of Bluffton, regarding the baseline water quality study in partnership with DNR. Supporting their efforts within the county.

## **E. Stormwater Related Projects – Katie Herrera**

### ***Highlights:***

- ✓ Shell Point Community –1 Bid came back. On August 22<sup>nd</sup> staff will inform the community of what to expect. Mailers will go out the community as well.
- ✓ Huspah Ct N – should start next Fiscal Year/Month
- ✓ Bessies Lane – Approval received on Last Monday
- ✓ Church of God – CWI just wrapped up. Minor sink holes was fixed
- ✓ Tuxedo Park Pond – should go back out for bid. Chairman Feinberg asked questions about the project. Revised the bid to make it more clear for bidders.
- ✓ Author Horne Project- No update

## **F. Professional Contracts Report – Julianna Corbin**

### ***Highlights:***

- ✓ Brewer Memorial – Closing out with engineer of record.
- ✓ Stormwater engineering consulting services – Woolpert
  - b) Scope #11 – Northern Lady’s Island Drainage Study Phase II – Report draft is pending. Allocated funds – \$213,650.00
  - c) Scope #12 – Monitoring Station and rain gauge at Okatie River headwaters almost in. Allocated funds - \$58,804.15
  - e) Scope #14 – Rivers End Water Quality Improvements – Data compilation, stormwater inventory and survey, potential BMP identification, Model development, alternatives analysis, and drainage report. Allocated funds - \$174,465.00. Approved February 16, 2023. Inventory complete and survey to begin first week of April.

## **G. Municipal Reports**

### ***Highlights:***

- ✓ Town of Hilton Head (Brian Eber)
  - New Stormwater Maintenance Program Administrator
  - 2 New Stormwater Inspectors
  - July 1<sup>st</sup> Stormwater Plan review fees
- ✓ Town of Bluffton (From Bill Baugher)
  - Passed their budget
  - Rivershed Action Plan – watershed retrofit projects funding secured.
  - May River baseline study got approved, 2004, update baseline study for right now.
  - Sewer program is moving forward.
- ✓ City of Beaufort (Katie Herrera)
  - Leveraged funds from Federal Program for the Baynard St Drainage Project.

## **H. MS4 Update – Katie Herrera**

### ***Highlights:***

- ✓ Plan Review – steady influx.
- ✓ Stormwater Permits
- ✓ Monthly Inspection summary – staying very busy, team is excited about keeping in compliance.
- ✓ Weather Station Data
- ✓ Education Report presented by Julianna. (Pond Buffers, Riverside Buffers, harmful bacteria)
- ✓ MS4 Statewide General permit – Have a draft version created. Also creating a
- ✓ Staff working with Hilton Head Airport.
- ✓ Trying to fill positions within Public Works. Taylor Brewer will be our new Stormwater Program Manager starting September 5<sup>th</sup>.
- ✓ Carolyn W went to Capital Projects, Julianna leaves on June 28<sup>th</sup>, continue to interview for vacant positions. 4 staff members attended the International Erosion Control conference in Tennessee. New camera truck in, Scott Youmans is jumping in to get it operational. Stephen Carter is now the Superintendent of Infrastructure.

- ✓ State Meeting, September 7<sup>th</sup>.
- ✓ No approvals from DHEC as of current date

**I. Maintenance Projects Report – Stephen Carter.**

**Highlights:**

- ✓ Major projects:
  - Wimbee Landing Road
- ✓ Minor or routine projects:
  - Bluffton Vacuum Truck
  - Hilton Head Island Airport-Bush hog
  - Port Royal Island Vacuum Truck
  - Town of Hilton Head Island Vacuum Truck

**J. Liaison Report – Alice Howard**

- ✓ Staffing concerns for department. Stephen Carter mentioned about county paying for the CDL program to get members certified.
- ✓ Green Print committee members have been meeting about the 1 cent sale tax can be used for major projects.

**6. Unfinished Business –**

- ✓ Board Consolidation
  - Stormwater Utility
  - Solid Waste and Recycle
  - Keep Beaufort County Beautiful
- ✓ Current Boards will be ending as of December 31st and there will be only one board starting January 1<sup>st</sup> as The Environmental Board.
- ✓ It was requested a study be performed on what the consolidation would look like, to include cost estimates.

**7. New Business-**

- ✓ Research the consolidation of other combined Solid Waste and Stormwater Boards.

**8. No Public Comment.**

- ✓ None.

**9. Meeting Adjourned**





BEAUFORT COUNTY  
STORMWATER MANAGEMENT UTILITY BOARD AGENDA  
Wednesday, October 18th, 2:00 p.m.  
County Council Chambers  
Beaufort, South Carolina 843.255.2805

1. CALL TO ORDER – 2:00p.m.

In accordance with South Carolina Code of Laws, 1976, as amended, Section 30-4-80(d), all local media was duly notified of the time, date, place and agenda of this meeting.

- A. Approval of Agenda
- B. Approval of Minutes – August 16th, 2023 ([backup](#))

2. INTRODUCTIONS

3. PUBLIC COMMENT

4. REPORTS

- A. Utility Update – Katie Herrera ([backup](#))
- B. Monitoring Update – Katie Herrera ([backup](#))
- C. Stormwater Implementation Committee Report – Katie Herrera ([backup](#))
- D. Stormwater Related Projects – Taylor Brewer ([backup](#))
- E. Upcoming Professional Contracts Report – Taylor Brewer ([backup](#))
- F. Regional Coordination – Katie Herrera ([backup](#))
- G. Municipal Reports – Taylor Brewer ([backup](#))
- H. MS4 Update – Taylor Brewer ([backup](#))
- I. Staff Update – Taylor Brewer ([backup](#))
- J. Maintenance Projects Report – Stephen Carter ([backup](#))
- K. Liaison Report - Ms. Alice Howard

5. UNFINISHED BUSINESS

- A. Board Consolidation Update - Katie Herrera ([backup](#))

6. NEW BUSINESS

7. PUBLIC COMMENT

8. NEXT MEETING AGENDA

- A. Wednesday, December 13th ([backup](#))

9. ADJOURNMENT

