



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 – Carl Wright ([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





## 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

#### Absent

Steve Andrews  
Patrick Mitchell

### Ex-Officio Members

#### Present

Van Willis

#### Absent

Nate Farrow  
Jeff Netzinger  
Bill Baugher

### Beaufort County Staff

Katie Herrera  
Linda Augustine  
Dafiney Butler  
Pamela Cobb  
Stephen Carter

### Visitors

Alice Howard, County Council  
Ellen Sturup Comeau  
Jacob Terry

#### 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 (Jacob Terry)
  - New Stormwater Maintenance Program Administrator
  - 2 New Stormwater Inspectors
  - July 1<sup>st</sup> Stormwater Plan review fees
- ✓ City of Beaufort (Katie Herrera)
  - Leveraged funds from Federal Program for the Baynard St Drainage Project.
- ✓ **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 UTILITY  
120 Shanklin Road  
Beaufort, South Carolina 29906  
Voice (843) 255-2805 Facsimile (843) 255-9436**



September 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 has completed the tax year 2023 tax run with information provided to the Auditor on time.

## Monitoring Update

1. Lab Update (From Lab Manager Dr. Pettay)

- i. [See attached report.](#)

## Stormwater Implementation Committee (SWIC) Report

1. SWIC Committee will be meeting on October 18, 2023 prior to the SWUB meeting.

## Regional Coordination

1. Old Woodlands
  - a. Survey has been performed on drainage easement.
  - b. Staff working with town of Hilton Head to convey drainage easement for 55 Gardner Drive.

## Municipal Reports

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

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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 – work has begun by the contractor in the designated project areas.
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 – Contractor is installing sediment & erosion control BMPs.
  - b) Bessies Lane – Working with contractor to schedule start date.
  - c) Church of God – Project completed, however an erosion concern was found at an outfall resulting in \$80k worth of repairs needed.
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 – Staff working with Woolpert on website for public. Allocated funds - \$58,804.15
  - d) Scope #13 – NPDES SMS4 general permit assistance 2023. Allocated funds -

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\$40,000.00.

- 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. 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 – Woolpert has completed tax run for 2023. 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. Stormwater Awareness Week Update – Taylor Brewer
- 4. Monthly Inspection summary - [See the attached chart](#) for Beaufort County Stormwater staff inspection, complaint, IDDE, and violations summary for the past 12 months.
- 5. Public Education – [No Update.](#)
- 6. MS4 Statewide General permit – EPA has provided comments to SCDOT's MS4 permit.

#### **Staff Update**

- 1. Staff working to fill all vacant positions.

## USCB Water Quality Lab Update September 2023

### Beaufort County

**USCB/Beaufort County Contract MOU:** New contract is in place as of 6/7/22 with an expiration of 5 years on 6/6/27. New contract revisions will be submitted by USCB with changes stating the Principal Investigator must be a PhD-holding faculty at USCB. This is a newly created requirement by Vice Chancellor Skipper will follow what Town of Bluffton agreed to for continuation of services with USCB Water Quality Laboratory.

**Monitoring for 2023** includes monitoring for the following categories:

Category 1: TMDL monitoring

Category 2: IDDE screening and monitoring

Category 3: Water quality monitoring (baseline, based upon 303d list)

Category 4: MOA points

Category 5: Special project monitoring

**Status:** Third quarter sampling concluded with all wet weather samples collected, however, dry samples were not collected.

### Town of Bluffton

**USCB/Town of Bluffton MOU:** New contract agreed upon between Town of Bluffton and USCB was executed on July 18, 2023 with a duration of five years (6/30/2028).

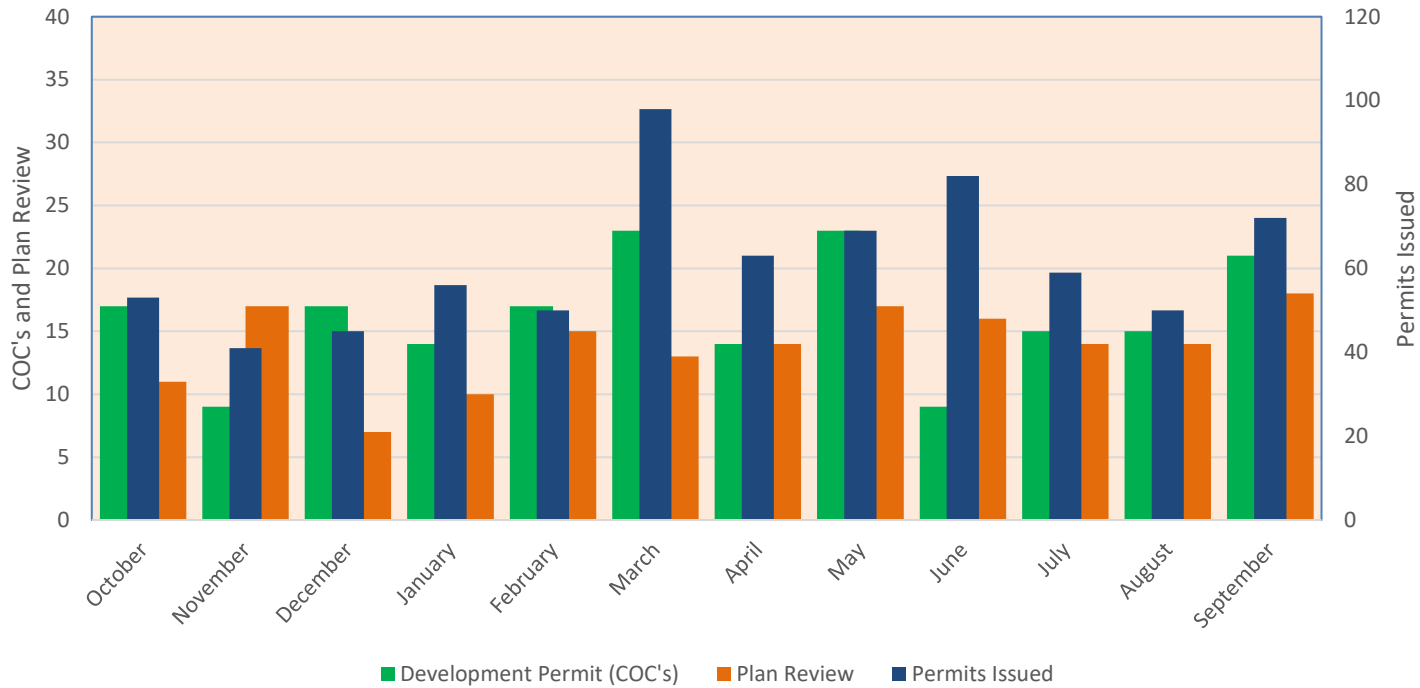
**Monitoring for 2023** includes monitoring for the following categories: MS4, TMDL, Monthly, CIP, MRWAP and shared locations, along with sample collection for Bridge Street sites for wet weather. **Status:** Monitoring continues with additional sampling sites and increased frequency of 2X a month.

### USCB Water Quality Laboratory

Danielle Mickel resigned as Lab Director and Co-PI of the Water Quality Lab on 8/15/23 and effective 8/18/23. A job advertisement to hire a Lab Manager has been created and is waiting for university approval. In addition, a part-time laboratory assistant was hired on 8/27/23. The new hire will primarily process samples for the Town of Bluffton, but will also assist with Beaufort County samples and in the generation of sample and monthly reports to the County and the Town of Bluffton. The hiring of an assistant will allow Hamp Simkins to focus on the collection and analysis of Beaufort County samples.

**Palmetto Bluff:** FY 2023 sampling efforts are 12x/year for 6 wet/6 dry events including the additional parameters requested by Town of Bluffton. **Status:** Continued collection.

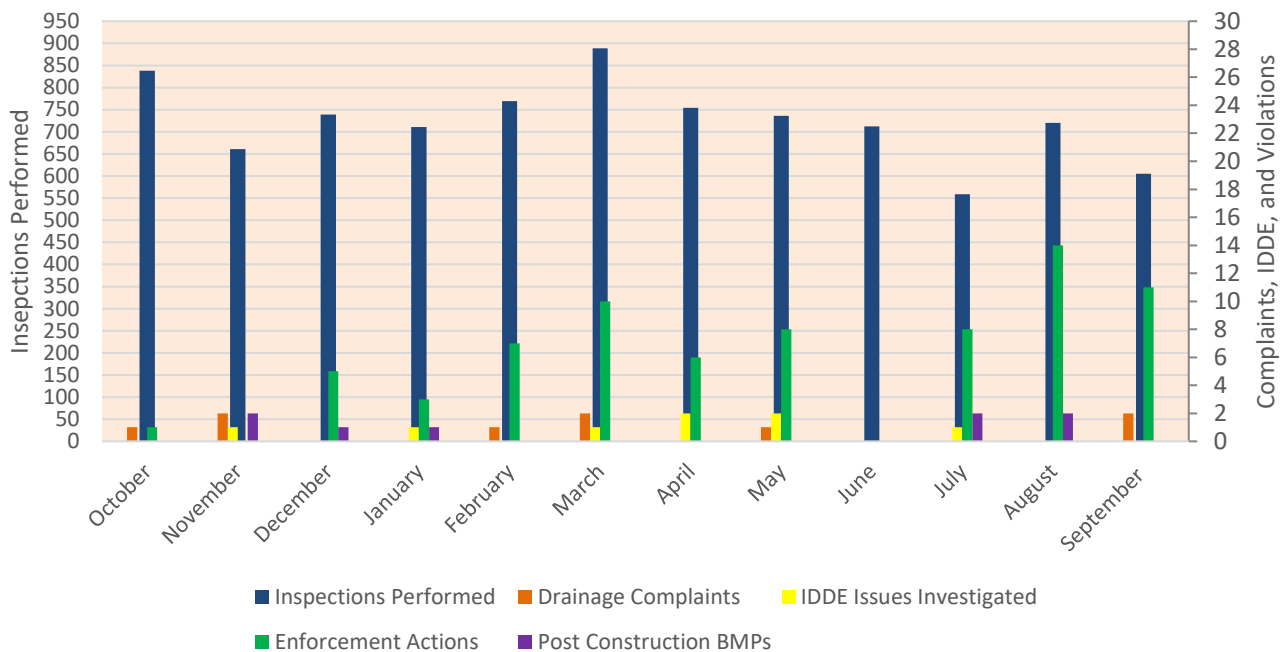
### MS4 Minimum Control Measure #5 Stormwater Plan Review



TYPE	October	November	December	January	February	March	April	May	June	July	August	September	Last 12 Months
Development Permit (COC's)	17	9	17	14	17	23	14	23	9	15	15	21	194
Plan Review	11	17	7	10	15	13	14	17	16	14	14	18	166
Permits Issued	53	41	45	56	50	98	63	69	82	59	50	72	738



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



TYPE	October	November	December	January	February	March	April	May	June	July	August	September	Last 12 Months
Inspections Performed	838	661	739	711	769	889	754	736	712	559	720	605	8693
Drainage Complaints	1	2	0	0	1	2	0	1	0	0	0	2	9
IDDE Issues Investigated		1	0	1	0	1	2	2	0	1	0	0	8
Enforcement Actions	1	0	5	3	7	10	6	8	0	8	14	11	73
Post Construction BMPs	0	2	1	1	0	0	0	0	0	2	2	0	8



## MEMORANDUM

Date: October 02, 2023

To: Stormwater Management Utility Board

From: Stephen Carter, Stormwater Infrastructure Superintendent

Re: **Maintenance Project Report**

This report will cover three major projects and four minor or routine projects. The Project Summary Reports are attached.

### **Major Projects:**

- **Lady's Island Airport – Lady's Island (7):** This project improved 9,237 linear feet of drainage system. The scope of work included grubbing and clearing 1,850 linear feet of channel, bush hogging 4,590 linear feet of channel and 1,774 linear feet of roadside ditch. Cleaned out 1,023 linear feet of roadside ditch and installed (1) access pipe. Hauled fill dirt from the airport to put in stock at Public Works Complex. Hydroseeded for erosion control. The total cost was **\$306,391.39**.
- **Marblehead Road – Hilton Head Island (3):** The scope of work included replacing and jetting (2) driveway pipes. The total cost was **\$19,708.82**.
- **Old Woodland Plantation – ToHHI (3):** This project improved 2,535 linear feet of drainage system. The scope of work included cleaning out 2,535 linear feet of roadside ditch. The total cost was **\$24,439.78**.

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

- **Pleasant Point Road Channel – Lady's Island (7):** This project improved 458 linear feet of drainage system. The scope of work included cleaning out 458 linear feet of channel and installing (1) access pipe. The total cost was **\$2,251.31**.
- **Bluffton Sinkhole Repairs – Bluffton (4):** The scope of work included repairing sinkholes. The total cost was **\$11,470.56**.
- **St Helena Valley Drains – St. Helena Island (8):** This project improved 31,390 linear feet of drainage system. The scope of work included cleaning out 31,390 linear feet of valley drains. The total cost was **\$14,588.59**.
- **Southern Magnolia Drive – Lady's Island (7):** The scope of work included replacing (1) driveway pipe and jetting (2) driveway pipes. Handseeded for erosion control. The total cost was **\$13,989.78**.



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

**Project Summary:** Lady's Island Airport

**Activity:** Routine/Preventive Maintenance

**Duration:** 07/09/2022 - 04/11/2023

**Narrative Description of Project:**

Project improved 9,237 L.F. of drainage system. Grubbed and cleared 1,850 L.F. of channel, bush hogged 4,590 L.F. of channel and 1,774 L.F. of roadside ditch. Cleaned out 1,023 L.F. of roadside ditch. Installed (1) access pipe. Hauled fill dirt from airport to stock at Public Works Complex. Hydroseeded for erosion control.

**2023-577 / Lady's Island Airport**

	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Cost</b>	<b>Total Cost</b>
APINS / Access pipe - installed	34.00	\$1,037.62	\$234.50	\$1,523.24	\$0.00	\$659.72	\$3,455.08
AUDIT / Audit Project	14.00	\$582.68	\$0.00	\$0.00	\$0.00	\$291.48	\$874.16
BUSH / Bush Hogged	16.00	\$494.00	\$88.77	\$47.24	\$0.00	\$197.68	\$827.69
CBH / Channel- bushhogged	56.00	\$1,655.76	\$729.51	\$303.23	\$0.00	\$703.52	\$3,392.02
CGRB / Channel - grubbed	16.00	\$494.00	\$355.26	\$91.04	\$0.00	\$314.08	\$1,254.38
CLJS / Cleaned up jobsite	152.00	\$5,007.92	\$1,676.22	\$668.84	\$0.00	\$3,121.60	\$10,474.58
FENINST / Fence Installation	32.00	\$859.64	\$102.04	\$123.76	\$0.00	\$517.72	\$1,603.16
GACA / Grubbed and Cleared	32.00	\$988.00	\$710.52	\$113.75	\$0.00	\$395.36	\$2,207.63
HAUL / Hauling	2,284.00	\$70,937.45	\$63,153.13	\$32,798.93	\$0.00	\$38,066.42	\$204,955.92
HMT / Haul Material	16.00	\$438.96	\$152.48	\$148.92	\$0.00	\$270.96	\$1,011.32
HYDR / Hydroseeding	32.00	\$922.96	\$171.65	\$2,056.02	\$0.00	\$586.80	\$3,737.43
INSPRD / Inspection - Road	8.00	\$273.40	\$17.40	\$30.72	\$0.00	\$173.80	\$495.32
LM / Loading Materials	600.00	\$19,153.01	\$12,266.64	\$2,875.03	\$0.00	\$12,044.16	\$46,338.84

**Continued on the next page**

**2023-577 / Lady's Island Airport cont'd**

	<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>
LW / Level Worksite	64.00	\$2,119.60	\$1,387.30	\$291.15	\$0.00	\$1,107.28	\$4,905.33
ONJV / Onsite Job Visit	108.00	\$4,716.16	\$796.20	\$199.37	\$0.00	\$1,615.36	\$7,327.09
PS / Push up soil	32.00	\$1,162.72	\$906.45	\$448.92	\$0.00	\$521.92	\$3,040.01
RDBH / Roadside ditch - bushhogged	16.00	\$494.00	\$106.76	\$64.00	\$0.00	\$197.68	\$862.44
RMTRW / Remove trees - Workshelf	64.00	\$1,476.14	\$205.52	\$150.42	\$0.00	\$741.20	\$2,573.28
RSDCL / Roadside Ditch - Cleanout	55.00	\$1,741.13	\$295.41	\$145.62	\$0.00	\$1,091.15	\$3,273.31
SPD / Spreading Dirt	32.00	\$796.16	\$34.80	\$36.20	\$0.00	\$499.84	\$1,367.00
WSBH / Workshelf - Bush Hogged	16.00	\$494.00	\$106.76	\$64.00	\$0.00	\$197.68	\$862.44
WSL / Workshelf - Level	16.00	\$546.80	\$426.12	\$232.44	\$0.00	\$347.60	\$1,552.96
<b>Grand Total</b>	<b>3,695.00</b>	<b>\$116,392.11</b>	<b>\$83,923.44</b>	<b>\$42,412.83</b>	<b>\$0.00</b>	<b>\$63,663.01</b>	<b>\$306,391.39</b>

**Before**



**During**



**After**





Project: Lady's Island Airport

Activity: Routine/  
Preventive  
Maintenance

Project #:  
2023-577














Township/SW Dist:  
Lady's Island/7

Completed:  
April 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 80 160 320 480 640  
Feet

**1 inch = 420 feet**

Prepared By: BC Stormwater Management Utility  
Date Print:09/21/23  
File:C:\project summaries map\Lady's Island Airport\_2023-577





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

**Project Summary:** Marblehead Road

**Activity:** Routine/Preventive Maintenance

**Duration:** 05/30/2023 - 07/26/2023

**Narrative Description of Project:**

Replaced and jetted (2) driveway pipes.

**2023-597 / Marblehead Road**

	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Cost</b>	<b>Total Cost</b>
AUDIT / Audit Project	1.00	\$41.62	\$0.00	\$0.00	\$0.00	\$20.82	\$62.44
CCSRT / Concrete construction	16.00	\$602.88	\$34.80	\$22.24	\$0.00	\$372.16	\$1,032.08
DPJT / Driveway Pipe - Jetted	24.00	\$765.57	\$341.36	\$61.66	\$0.00	\$320.08	\$1,488.67
DPRPL / Driveway Pipe - Replaced	40.00	\$1,378.30	\$284.30	\$1,236.00	\$0.00	\$850.80	\$3,749.40
DWASPH / Driveway - Asphalt	16.00	\$548.01	\$438.49	\$74.64	\$0.00	\$338.28	\$1,399.42
HAUL / Hauling	32.00	\$1,052.12	\$609.92	\$1,466.69	\$0.00	\$649.40	\$3,778.13
NONPRO / Non-Professional Services	0.00	\$0.00	\$0.00	\$0.00	\$928.00	\$0.00	\$928.00
ONJV / Onsite Job Visit	32.00	\$1,609.60	\$139.20	\$52.82	\$0.00	\$993.60	\$2,795.22
PP / Project Preparation	56.00	\$1,909.94	\$204.08	\$96.91	\$0.00	\$1,178.96	\$3,389.89
STAGING / Staging Materials/Equipment	16.00	\$563.11	\$77.74	\$44.48	\$0.00	\$347.60	\$1,032.93
UTLOC / Utility locates	1.00	\$32.55	\$0.00	\$0.00	\$0.00	\$20.09	\$52.64
<b>Grand Total</b>	<b>234.00</b>	<b>\$8,503.70</b>	<b>\$2,129.89</b>	<b>\$3,055.44</b>	<b>\$928.00</b>	<b>\$5,091.79</b>	<b>\$19,708.82</b>

**Before**



**During**



**After**







Project: ToHHI-  
Marblehead Road

Activity: Routine/  
Preventive  
Maintenance














Project #:  
2023-597

Township/SW Dist:  
Hilton Head Island/3

Completed:  
July 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: 06/28/23

File: C:\project summaries map\ToHHI - Marblehead Road\_2023-597





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

**Project Summary:** Old Woodland Plantation -  
Indian Trail and Marblehead Road

**Activity:** Routine/Preventive Maintenance

**Duration:** 05/30/2023 - 07/26/2023

**Narrative Description of Project:**

Project improved 2,535 L.F. of drainage system. Cleaned out 2,535 L.F. of roadside ditch.

<b>2023-544 / Old Woodland Plantation</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Cost</b>	<b>Total Cost</b>
AUDIT / Audit Project	2.00	\$83.24	\$0.00	\$0.00	\$0.00	\$41.64	\$124.88
HAUL / Hauling	84.00	\$2,566.52	\$6,601.56	\$0.00	\$0.00	\$1,584.24	\$10,752.32
RSDCL / Roadside Ditch - Cleanout	219.00	\$6,347.47	\$4,178.32	\$0.00	\$0.00	\$2,984.15	\$13,509.94
UTLOC / Utility locates	1.00	\$32.55	\$0.00	\$0.00	\$0.00	\$20.09	\$52.64
<b>Grand Total</b>	<b>306.00</b>	<b>\$9,029.78</b>	<b>\$10,779.88</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$4,630.12</b>	<b>\$24,439.78</b>

**Before**



**During**



**After**







Project: Old Woodlands Plantation- Marblehead Road and Indian Trail Map #1

Activity: Routine/ Maintenance














Project #: 2023-544

Township/SW Dist: ToHHI/3

Completed: July 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

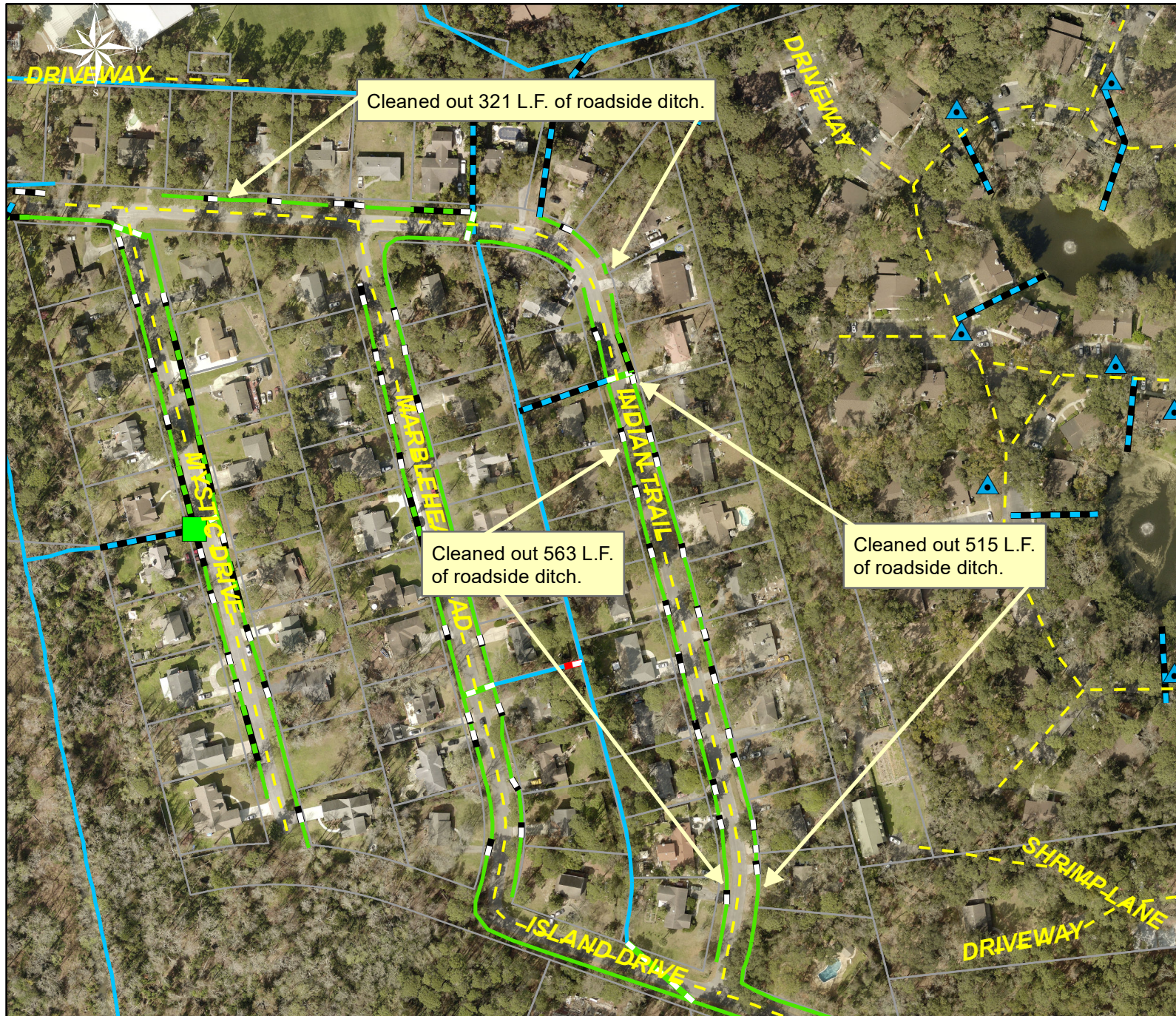
1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 08/16/23

File:C:\project summaries map\Old Woodlands Plantation- Marblehead Road & Indian Trail Map#1\_2023-544





Project: Old Woodlands Plantation- Marblehead Road and Indian Trail Map #2

Activity: Routine/ Maintenance

Project #: 2023-544

Township/SW Dist: ToHHI/3

Completed: July 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: 08/16/23

File:C:\project summaries map\Old Woodlands Plantation- Marblehead Road & Indian Trail Map#2\_2023-544





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

**Project Summary:** Pleasant Point Road Channel

**Activity:** Routine/Preventive Maintenance

**Duration:** 05/12/2023

**Narrative Description of Project:**

Project improved 458 L.F. of drainage system. Cleaned out 458 L.F. of channel ditch and installed (1) access pipe.

<b>2023-604 / Pleasant Point Road</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Cost</b>	<b>Total Cost</b>
APINS / Access pipe - installed	16.00	\$563.11	\$156.44	\$215.88	\$0.00	\$347.60	\$1,283.03
AUDIT / Audit Project	0.50	\$20.81	\$0.00	\$0.00	\$0.00	\$10.41	\$31.22
HAUL / Hauling	12.00	\$370.56	\$228.72	\$109.06	\$0.00	\$228.72	\$937.06
<b>Grand Total</b>	<b>28.50</b>	<b>\$954.48</b>	<b>\$385.16</b>	<b>\$324.94</b>	<b>\$0.00</b>	<b>\$586.73</b>	<b>\$2,251.31</b>

**Before**

(No Picture Available)

**During**



**After**







Project: Pleasant Point Road Channel

Activity: Routine/ Preventive Maintenance














Project #: 2023-604

Township/SW Dist: Lady's Island/7

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 = 170 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 08/17/23

File:C:\project summaries map\Pleasant Point Road Channel\_2023-604





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

**Project Summary:** Bluffton Sinkhole Repair

Parkside Drive, Lake Linden Drive, Okatie Center Blvd N  
and Capers Creek Drive.

**Activity:** Routine/Preventive Maintenance

**Duration:** 04/10/2023 - 06/08/2023

**Narrative Description of Project:**

Repaired sinkholes

**2023-424A/Bluffton Sinkhole Repair**

	<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	3.00	\$124.86	\$0.00	\$0.00	\$0.00	\$62.46	\$187.32
HAUL / Hauling	36.00	\$1,178.16	\$686.16	\$197.81	\$0.00	\$727.20	\$2,789.33
ONJV / Onsite Job Visit	8.00	\$390.72	\$34.80	\$8.70	\$0.00	\$248.40	\$682.62
PRRECON / Project Reconnaissance	8.00	\$208.56	\$34.80	\$38.92	\$0.00	\$128.72	\$411.00
SR / Sinkhole repair	133.00	\$4,009.32	\$486.88	\$402.10	\$0.00	\$2,501.99	\$7,400.29
<b>Grand Total</b>	<b>188.00</b>	<b>\$5,911.62</b>	<b>\$1,242.64</b>	<b>\$647.53</b>	<b>\$0.00</b>	<b>\$3,668.77</b>	<b>\$11,470.56</b>

**Before**



**During**



**After**





Project: Bluffton Sinkhole/ Washout Repair- Lake Linden Drive Map #1

Activity: Routine Preventive/ Maintenance

Project #: 2023-424A

Township/SW Dist: Bluffton/4

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 20 40 80 120 160 Feet

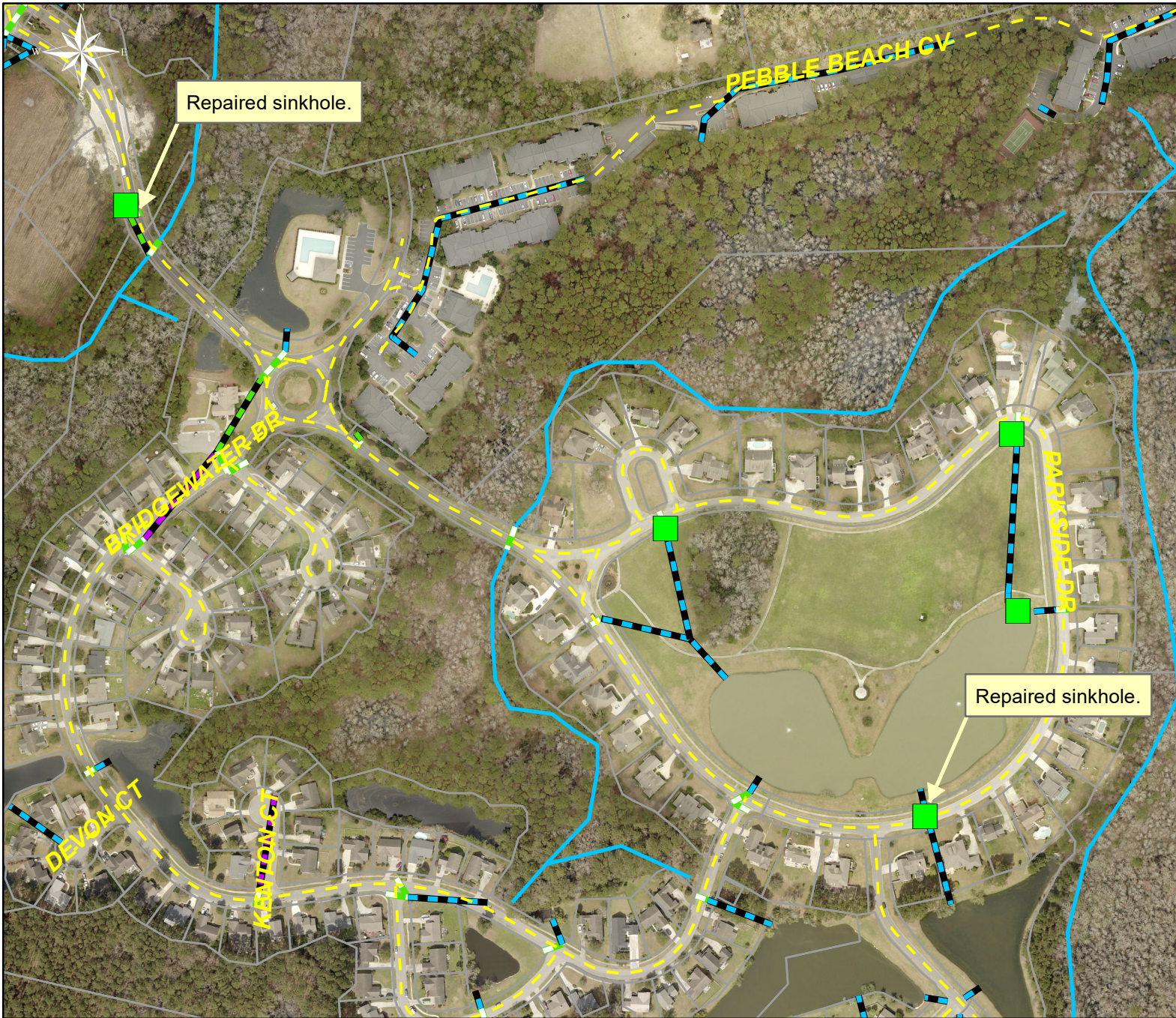
1 inch = 130 feet

Prepared By: BC Stormwater Management Utility

Date Print: 10/04/23

File: C:\project summaries map\Bluffton Sinkhole\Washout Repair- Lake Linden Drive Map #1\_2023-424A





Project: Bluffton Sinkhole/ Washout Repair- Parkside Drive Map #2














Activity: Routine Preventive/ Maintenance

Project #: 2023-424A

Township/SW Dist: Bluffton/4

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 60 120 240 360 480 Feet

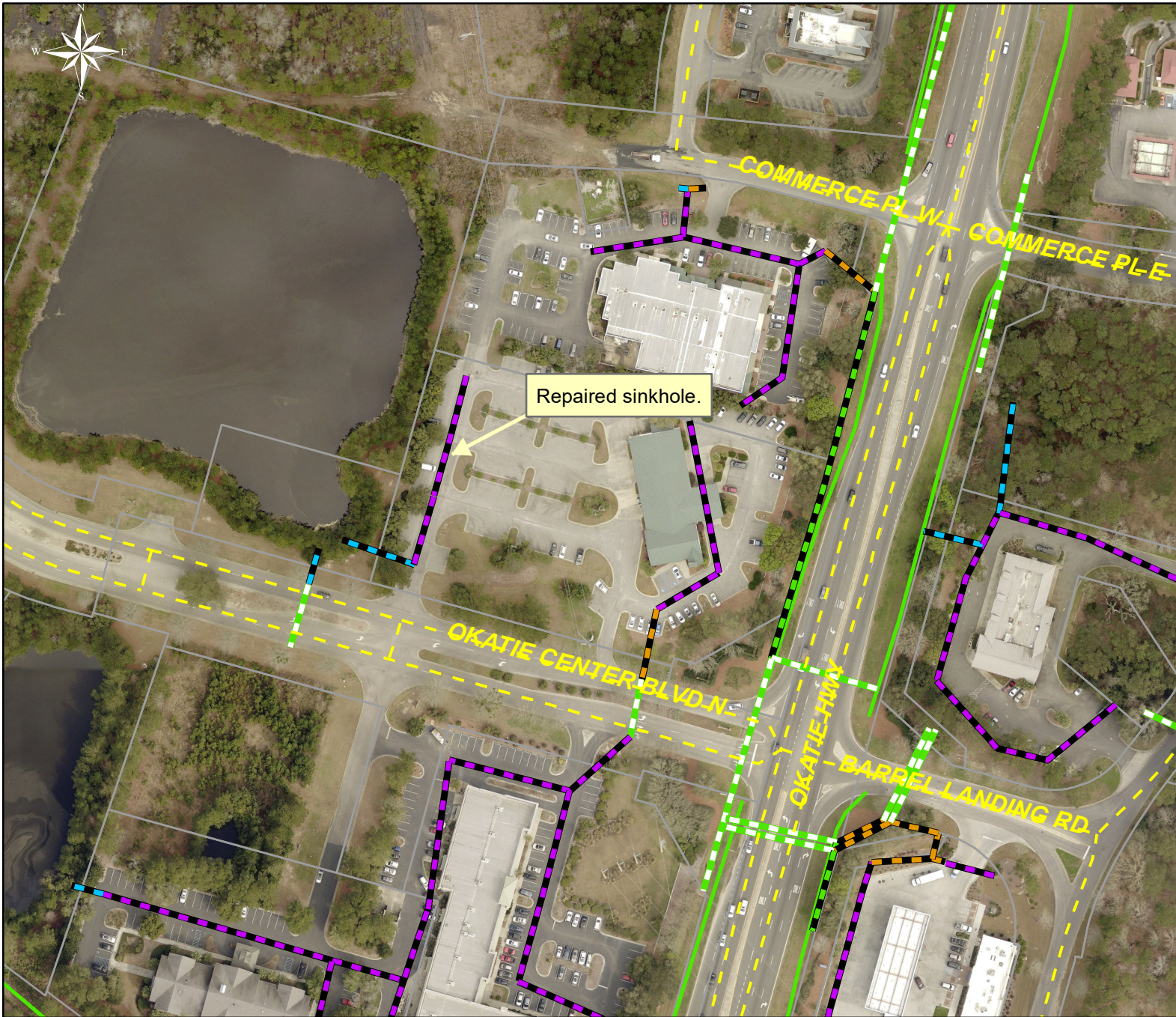
1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print: 10/04/23

File: C:\project summaries map\Bluffton Sinkhole\Washout Repair- Parkside Drive Map #2\_2023-424A





Project: Bluffton Sinkhole/ Washout Repair- Okatie Center BLVD N Map #3














Activity: Routine Preventive/ Maintenance

Project #: 2023-424A

Township/SW Dist: Bluffton/4

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

02040 80 120160  
 Feet

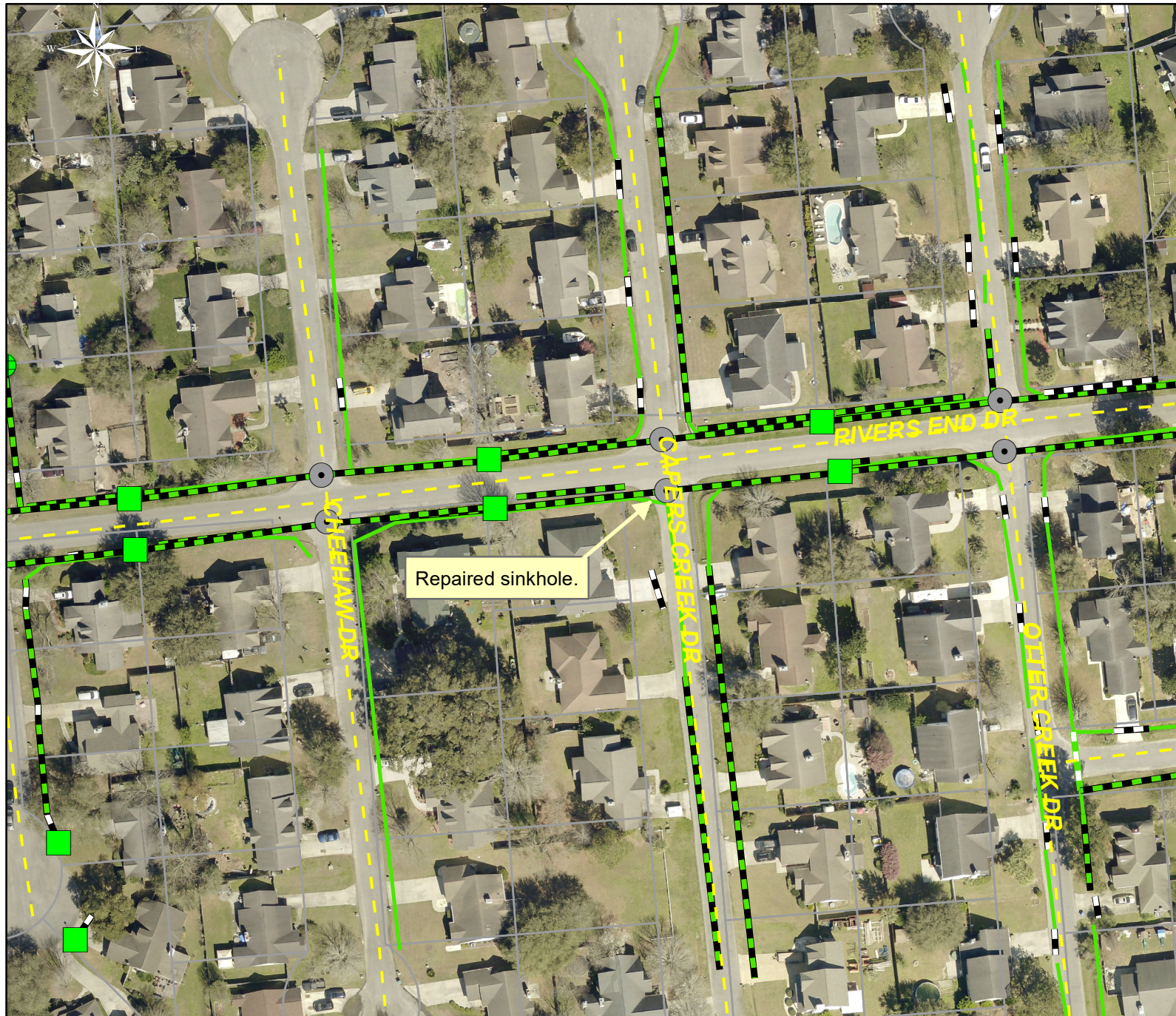
**1 inch = 170 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 10/04/23

File: C:\project summaries map\Bluffton Sinkhole/Washout Repair- Okatie Center BLVD N Map #3\_2023-424A





Project: Bluffton Sinkhole/ Washout Repair- Capers Creek Drive Map #4

Activity: Routine Preventive/ Maintenance

Project #: 2023-424A

Township/SW Dist: Bluffton/4

Completed: June 2023

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

0 15 30 60 90 120 Feet

1 inch = 100 feet

Prepared By: BC Stormwater Management Utility

Date Print: 10/04/23

File: C:\project summaries map\Bluffton Sinkhole\Washout Repair- Capers Creek Drive Map #4\_2023-424A





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

**Project Summary:** St Helena Island Valley Drains

**Activity:** Routine/Preventive Maintenance

**Duration:** 01/13/2023 - 03/24/2023

**Narrative Description of Project:**

Project improved 31,390 L.F. of drainage system. Cleaned out 31,390 L.F. of valley drains. This project consisted of the following areas: Queens Road (2,158 L.F.), Hunters Grove Road (4,784 L.F.), Vineyard Point Road (8,012 L.F.), White Sands Circle (866 L.F.), Tombee Road (7,404 L.F.), Luther Warren Drive (2,664 L.F.), James Grant Road (1,968 L.F.) and The Avenue (3,534 L.F.).

**2023-312 / St Helena 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	4.00	\$166.48	\$0.00	\$0.00	\$0.00	\$83.28	\$249.76
CLJS / Cleaned up jobsite	4.00	\$119.88	\$33.16	\$23.64	\$0.00	\$74.00	\$250.68
COVD / Cleaned Out Valley Drains	180.00	\$4,513.02	\$733.20	\$674.82	\$0.00	\$2,566.92	\$8,487.96
HAUL / Hauling	44.00	\$1,323.64	\$838.64	\$584.48	\$0.00	\$841.76	\$3,588.52
ONJV / Onsite Job Visit	42.00	\$1,752.24	\$182.70	\$76.73	\$0.00	\$0.00	\$2,011.67
<b>Grand Total</b>	<b>274.00</b>	<b>\$7,875.26</b>	<b>\$1,787.70</b>	<b>\$1,359.67</b>	<b>\$0.00</b>	<b>\$3,565.96</b>	<b>\$14,588.59</b>

**Before**



**During**



**After**







Project: St. Helena  
Island Valley Drains -  
Queens Road  
Map #1

Activity: Routine/  
Preventive  
Maintenance














Project #:  
2023-312

Township/SW Dist:  
St. Helena Island/8

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 50 100 200 300 400  
Feet

**1 inch = 250 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 10/02/23

File: C:\project summaries map\SHI Valley Drains- Queens Road Map #1\_2023-312





Project: St. Helena Island Valley Drains - Hunters Grove Road Map #2

Activity: Routine/ Preventive Maintenance

Project #: 2023-312

Township/SW Dist: St. Helena Island/8

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 50 100 200 300 400 Feet

**1 inch = 250 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 10/02/23

File: C:\project summaries map\SHI Valley Drains- Hunters Grove Road Map #2\_2023-312





Project: St. Helena Island Valley Drains - Vineyard Point Road Map #3

Activity: Routine/ Preventive Maintenance

Project #: 2023-312

Township/SW Dist: St. Helena Island/8

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 85 170 340 510 680 Feet

1 inch = 420 feet

Prepared By: BC Stormwater Management Utility

Date Print: 10/02/23

File: C:\project summaries map\SHI Valley Drains- Vineyard Point Road Map #3\_2023-312





Project: St. Helena  
Island Valley Drains -  
White Sands Circle  
Map #4

Activity: Routine/  
Preventive  
Maintenance














Project #:  
2023-312

Township/SW Dist:  
St. Helena Island/8

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

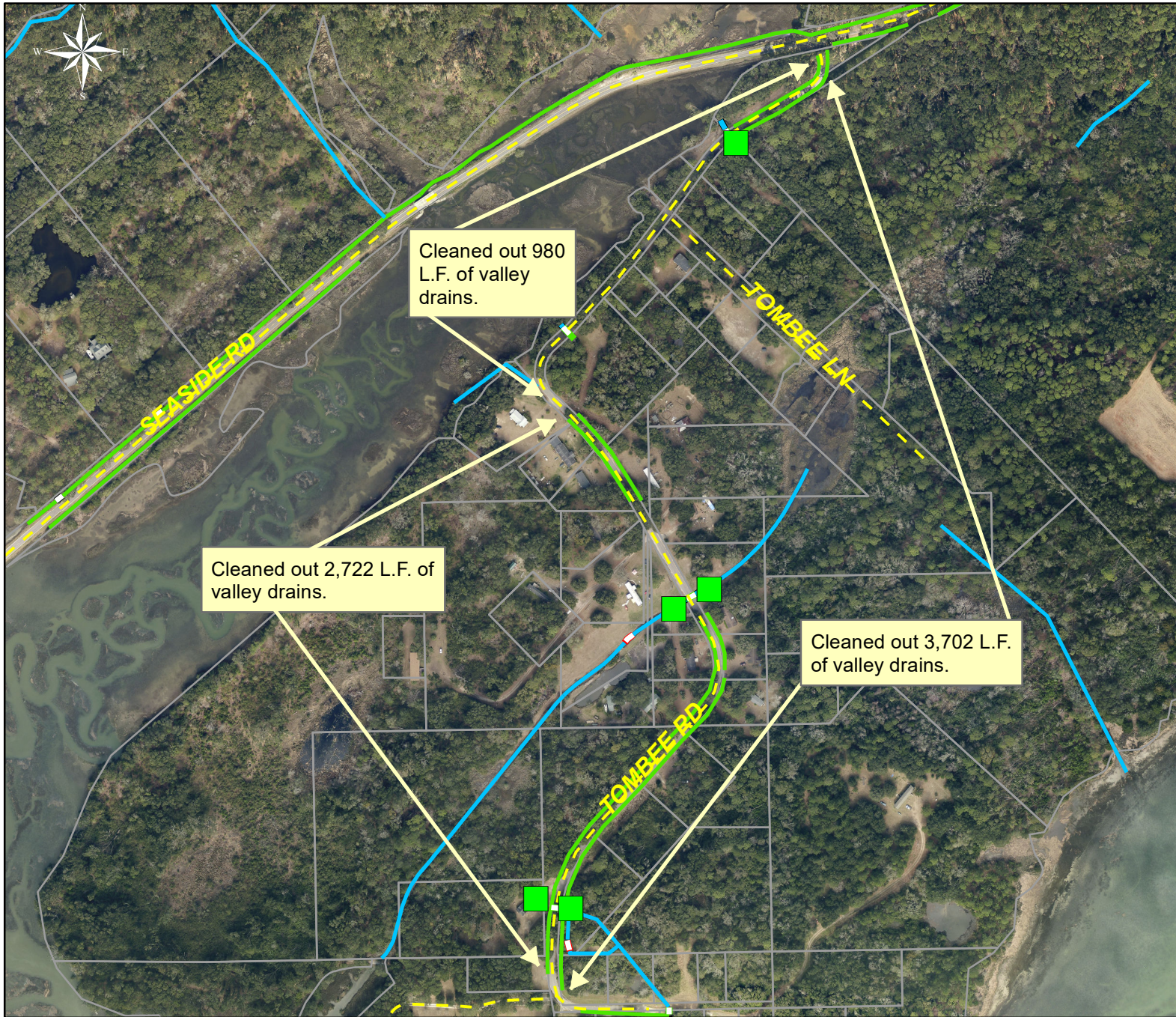
**1 inch = 170 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 10/02/23

File: C:\project summaries map\SHI Valley Drains- White Sands Circle Map #4\_2023-312





Project: St. Helena Island Valley Drains - Tombee Road Map #5

Activity: Routine/ Preventive Maintenance

Project #: 2023-312

Township/SW Dist: St. Helena Island/8

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 75 150 300 450 600 Feet

1 inch = 420 feet

Prepared By: BC Stormwater Management Utility

Date Print: 10/02/23

File: C:\project summaries map\SHI Valley Drains- Tombee Road Map #5\_2023-312





Project: St. Helena  
Island Valley Drains -  
Luther Warren Drive  
Map #6

Activity: Routine/  
Preventive  
Maintenance

Project #:  
2023-312

Township/SW Dist:  
St. Helena Island/8

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 50 100 200 300 400  
Feet

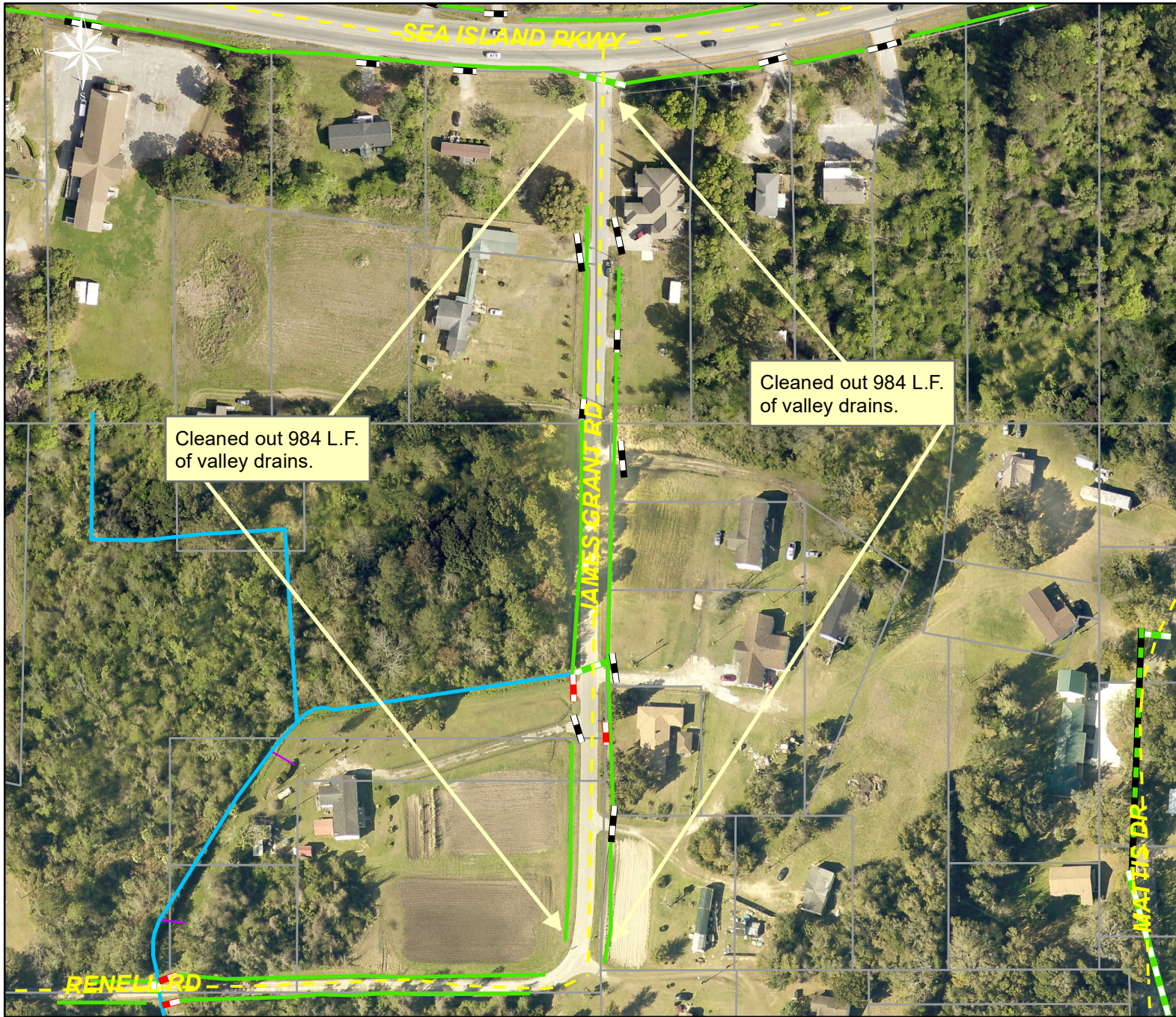
**1 inch = 290 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 10/02/23

File: C:\project summaries map\SHI Valley Drains- Luther Warren Drive Map #6\_2023-312





Project: St. Helena  
Island Valley Drains -  
James Grant Road  
Map #7

Activity: Routine/  
Preventive  
Maintenance














Project #:  
2023-312

Township/SW Dist:  
St. Helena Island/8

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: 10/02/23

File: C:\project summaries map\SHI Valley Drains- James Grant Road Map #7\_2023-312





Project: St. Helena  
Island Valley Drains -  
The Avenue  
Map #8

Activity: Routine/  
Preventive  
Maintenance

Project #:  
2023-312

Township/SW Dist:  
St.Helena Island/8

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 55110 220 330 440  
Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 10/02/23

File: C:\project summaries map\St. Helena Island Valley Drains- The Avenue Map #8\_2023-312





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

**Project Summary:** Southern Magnolia Drive

**Activity:** Routine/Preventive Maintenance

**Duration:** 04/17/2023 - 08/01/2023

**Narrative Description of Project:**

Replaced (1) driveway pipe and jetted (2) driveway pipes. Handseeded for erosion control.

<b>2023-599 / Southern Magnolia Drive</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Cost</b>	<b>Total Cost</b>
AUDIT / Audit Project	2.00	\$83.24	\$0.00	\$0.00	\$0.00	\$41.64	\$124.88
DPJT / Driveway Pipe - Jetted	20.00	\$573.51	\$111.44	\$73.84	\$0.00	\$354.02	\$1,112.81
DPRPL / Driveway Pipe - Replaced	24.00	\$771.67	\$155.48	\$527.62	\$0.00	\$476.32	\$1,931.09
HAND / HANDSEEDED	8.00	\$281.56	\$108.75	\$219.89	\$0.00	\$173.80	\$784.00
HAUL / Hauling	31.00	\$1,031.09	\$1,781.46	\$289.62	\$0.00	\$636.48	\$3,738.65
NONPRO / Non-Professional Services	0.00	\$0.00	\$0.00	\$0.00	\$4,500.00	\$0.00	\$4,500.00
ONJV / Onsite Job Visit	8.00	\$402.40	\$34.80	\$8.34	\$0.00	\$248.40	\$693.94
STAGING / Staging Materials/Equipment	16.00	\$563.11	\$93.26	\$47.80	\$0.00	\$347.60	\$1,051.77
UTLOC / Utility locates	1.00	\$32.55	\$0.00	\$0.00	\$0.00	\$20.09	\$52.64
<b>Grand Total</b>	<b>110.00</b>	<b>\$3,739.13</b>	<b>\$2,285.19</b>	<b>\$1,167.11</b>	<b>\$4,500.00</b>	<b>\$2,298.35</b>	<b>\$13,989.78</b>

**Before**



**During**



**After**







Project: Southern Magnolia Drive

Activity: Routine/ Preventive Maintenance

Project #: 2023-599

Township/SW Dist: Lady's Island/7

Completed: August 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: 08/17/23

File: C:\project summaries map\Southern Magnolia Drive\_2023-599



# TOWN COUNCIL



## STAFF REPORT

### Projects and Watershed Resilience Department

<b>MEETING DATE:</b>	October 10, 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) 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 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.
  - Initial site investigations completed by contractor to develop project schedule.

- **Next Steps**
    - Pre-construction meeting with BJWSA.
- 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**
- Design for Phases 4, 5, & 6 were 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 was held and comments to consultant being prepared.
- 5. Buck Island Drainage Improvements**
- Drainage project closed out.
  - **Next Steps**
    - IFB closes 10/11/23 for construction of boardwalk handrails.

## **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 FY24. Coordinate conduit and light installation for the east side of the street in conjunction with larger streetscape project.
    - Obtain easements as needed for Phase 2 street lighting.
- 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. Removal of existing roof and sheathing. Install new sheathing and dry structure in. Window and door restoration are ongoing offsite at Huss's shop.
    - SCADpro students are developing conceptual ideas for the Welcome Center for possible construction in FY 2025.
- 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 FY24.

- 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 transmission line easements have been completed, then continue with engineering design into FY 2024.
  - Prepare easement acquisition plats for Phase 1 in CY 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.
- Contract with ICE approved at 9/12/23 Town Council meeting.
- **Next Steps**
  - Engineer designs under way.

## 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 and reconfigured boat trailer parking.
- **Next Steps**
  - Finalize design of area event area based on Council feedback in April Quarterly Workshop.
  - 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.
- Council directed staff to not proceed with sports court design at this time.
- Received responses to RFP splash pad solicitation on 7/12/23.
- **Next Steps**
  - Complete Rotary Hardscape construction in October.
  - Select design/build contractor for the Splash Pad 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 and the equipment has been delivered.
- Obtained bids for RFP solicitation to install the DuBois playground equipment.
- Contractor installed perimeter sidewalk for the DuBois Playground Expansion.

- Requested proposal from T&H for landscape and hardscape improvements at Evicore Park.
- **Next Steps**
  - Palmetto Recreation Equipment, LLC to install DuBois playground equipment.
  - Continue preliminary design of 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**
  - Challenge course completed.
  - FY 2024 begin design for FY 2025 construction of 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.
- Executed design contracts with Meadors Inc. and complete construction documents for the cottage in FY 2024.
- Executed design contracts with JK Tiller and complete site development design in FY 2024.
- **Next Steps**
  - Complete design of Cottage and grounds.
  - Begin restoration construction of cottage in FY 2025.

### **4. Ghost Roads**

- Surveying and easement exhibits are complete.
- Bridge Street Quit Claim Deeds are complete. Pritchard and Colcock Streets Quit Claim Deeds are 99% complete. Staff is currently working with Lawrence, Lawton, Green, Pope, Allen and Water Street property owners to obtain Quit Claim Deeds.
- 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 UPDATE**

- 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.
- 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 and intermittent flow data in real time. 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 and current data review indicates staff and instrumentation are collecting quality flow monitoring data.
  - The Town's Calhoun Street Dock tidal elevation gauge was repaired and is recording tidal elevation data. Water Environmental Consultants (WEC) and staff continue efforts to 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.
  - 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. Needs for the Buck Island/Simmons ville area for flooding were included. Staff has compiled comments and the proposed scope of work and working with Sea Grant to revise the initial scope. Two (2) automatic samplers were deployed in the Bridge Street Streetscape water quality project outfalls following completion of the Streetscape project, The goal was to collect water quality samples for post-construction monitoring. The Town of Bluffton's Watershed Management Division Office weather station recorded 3.82 inches of rainfall on 9/10/23. One (1) automatic sampler was activated due to discharge at the outfall. Fecal indicator bacteria, nutrient, and total suspended solids (TSS) samples were collected from the automatic sampler and submitted to USCB's Water Quality Laboratory for analysis. Results are pending.



4. **Municipal Separate Storm Sewer System (MS4) Program Update**
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 9/28/23. **Attachment 3**
  - Staff hosted the Town's Beach Sweep/River Sweep which will be held September 16, 2023, from 9:00am-11:30am at Oyster Factory Park. Approximately one hundred (100) volunteers attended the event.
  - Staff held a SoLoCo Compliance Calculator workshop for stakeholders, specifically civil engineers and landscape architects. Approximately forty-five (45) stakeholders attended the workshop.
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**
    - Staff conducted quarterly MS4 sampling for the summer MS4 season on 8/29/23, one day prior to the threat posed by Tropical Storm/Hurricane Idalia. The human genetic marker was detected at one (1) Town monitoring location, MRR10 (Hwy 46 Stoney Creek overpass). Staff conducted door-to-door septic tank inspections on 9/18/23. Educational handouts, in English and Spanish, on the importance of septic tank maintenance were provided to residents of inspected parcels.
    - 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 9/20/23. 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)**
  - Andrea Moreno is now at Notary Public for South Carolina.
  - Christina Hurd and Nicole Wright received their Certified Erosion Prevention and Sediment Control Inspector (CEPSCI) certification.
  - Staff conducted a facility inspection of the 10-Acre Site and discussed findings with Public Services.
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

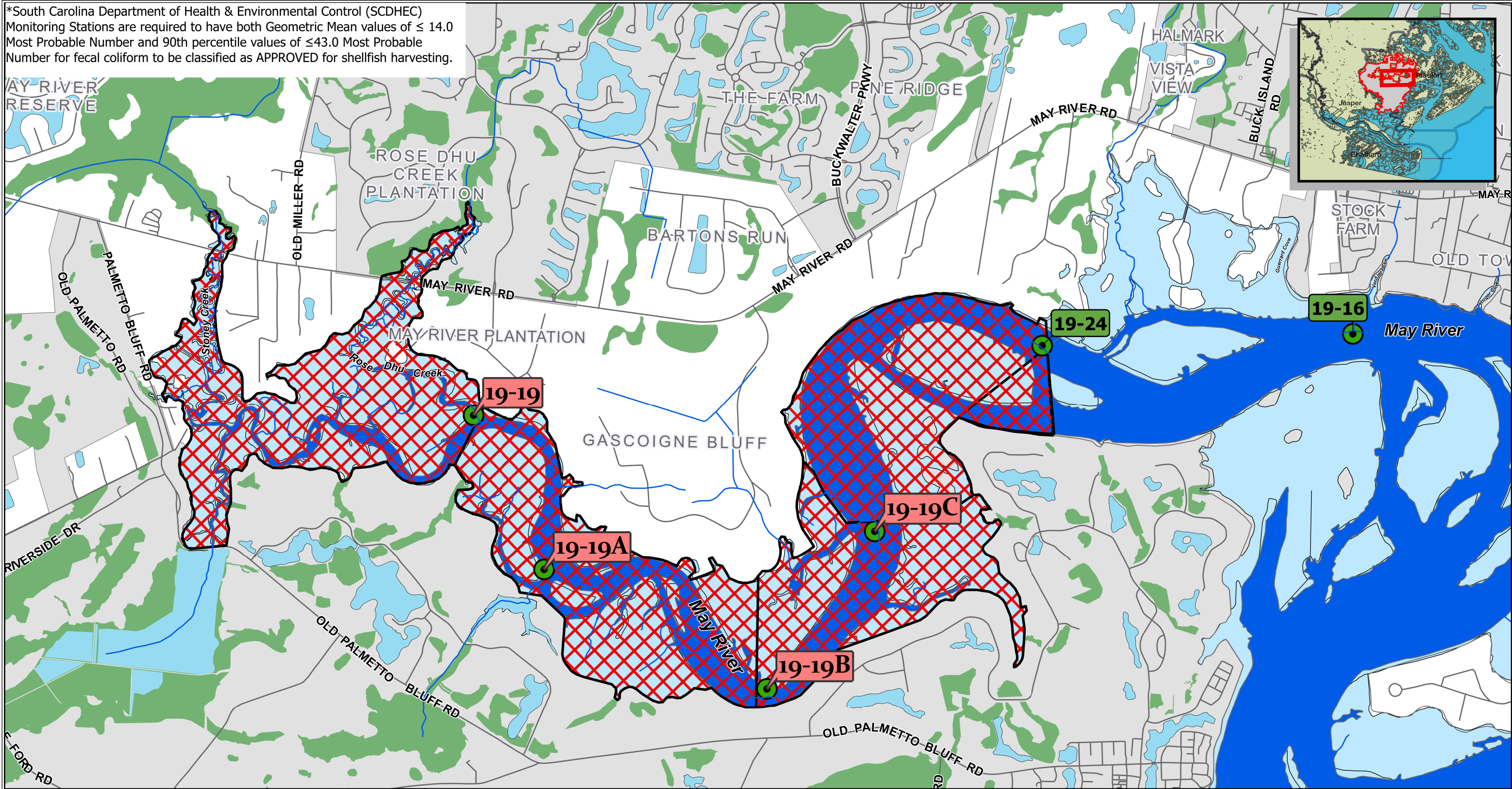
**SCDHEC Regulatory Requirements:**

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.



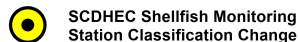
SCDHEC Shellfish Monitoring Stations



Restricted  
2022/2023 Shellfish  
Season



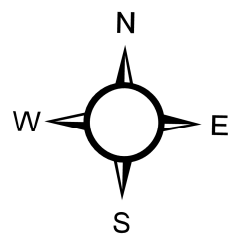
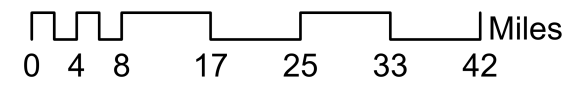
Open SCDHEC Shellfish  
Monitoring Stations



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, September 28, 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 COMMENT**
  - VI. **OLD BUSINESS**
    1. Finalization of WAPAC Strategic Plan Priorities for FY25-26 - Beth Lewis, Water Quality Program Manager
  - VII. **NEW BUSINESS**
    1. Development of the Strategic Plan Priority Five (5) to Establish an Agreement with Beaufort County to Implement the May River Watershed Action Plan within the County's Jurisdiction of the Watershed for Both Structural Stormwater Projects and Non-Structural Programs such as Implementing the Green Print Map within the Rural & Critical Lands Program - Beth Lewis, Water Quality Program Manager
  - VIII. **DISCUSSION**
  - IX. **ADJOURNMENT**
- NEXT MEETING DATE: October 26, 2023**

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*“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.”*

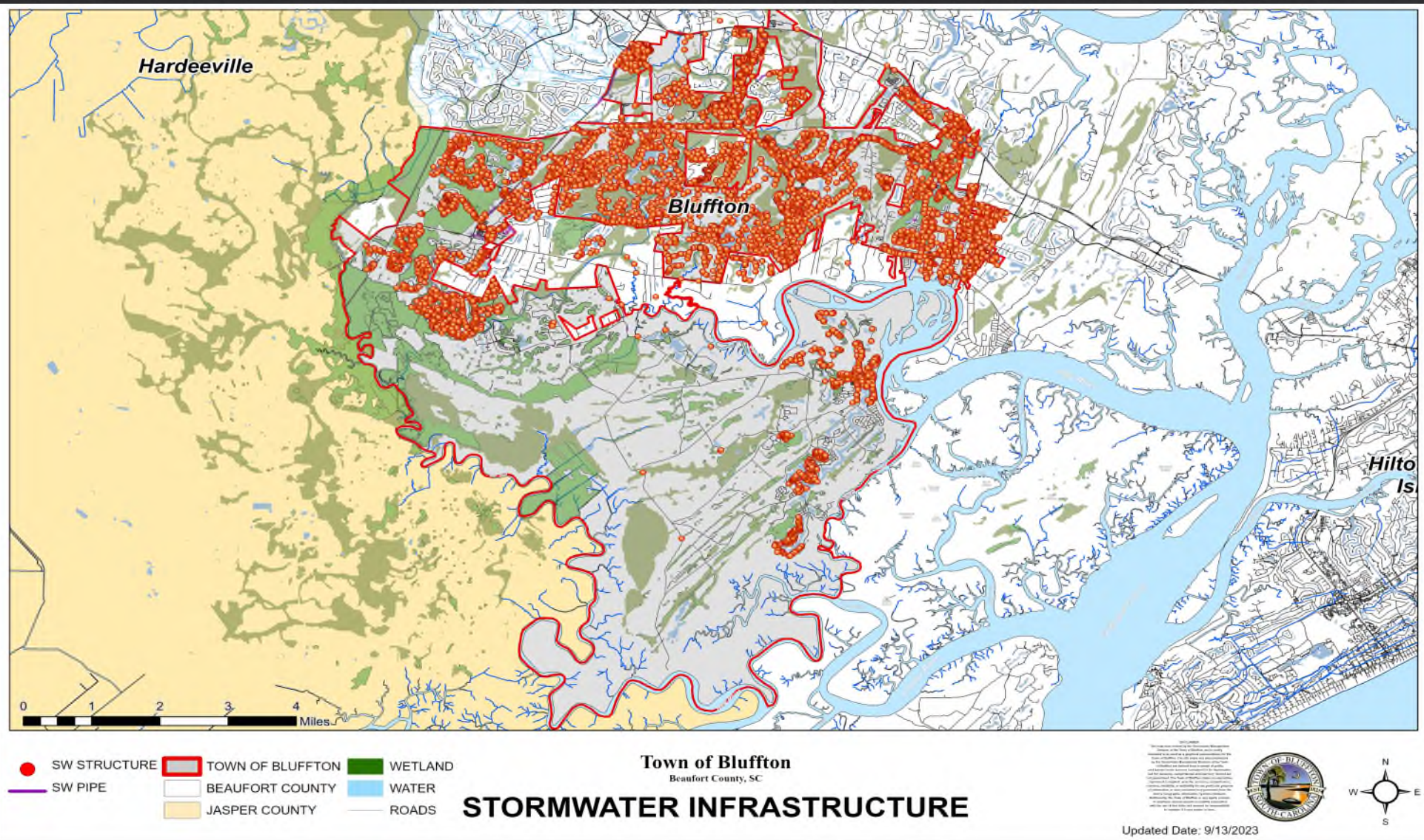
*In accordance with the requirements of Title II of the Americans with Disabilities Act of 1990 ("ADA"), the Town of Bluffton will not discriminate against qualified individuals with disabilities on the basis of disability in its services, programs, or activities. The Town of Bluffton Council Chambers 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 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 Stormwater Technician. Public comment is limited to 3 minutes per speaker.*



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

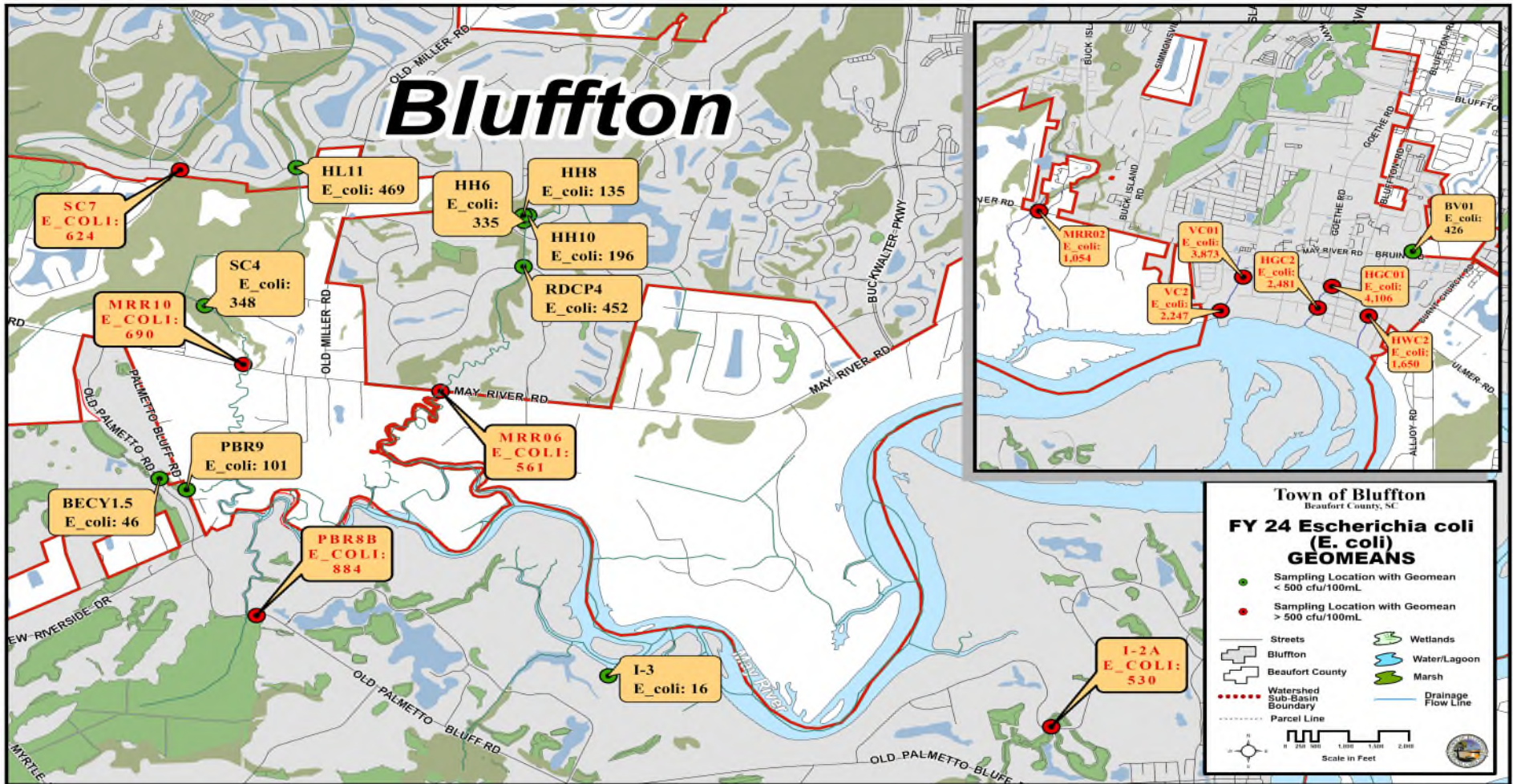


## Stormwater Infrastructure Inventory Collection Status

Collection Totals	16,676
FY 2024 YTD	19



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

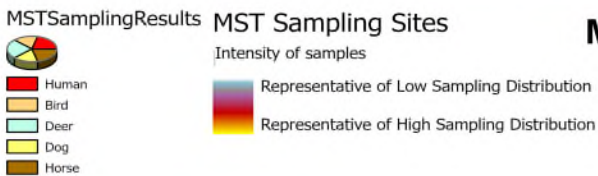
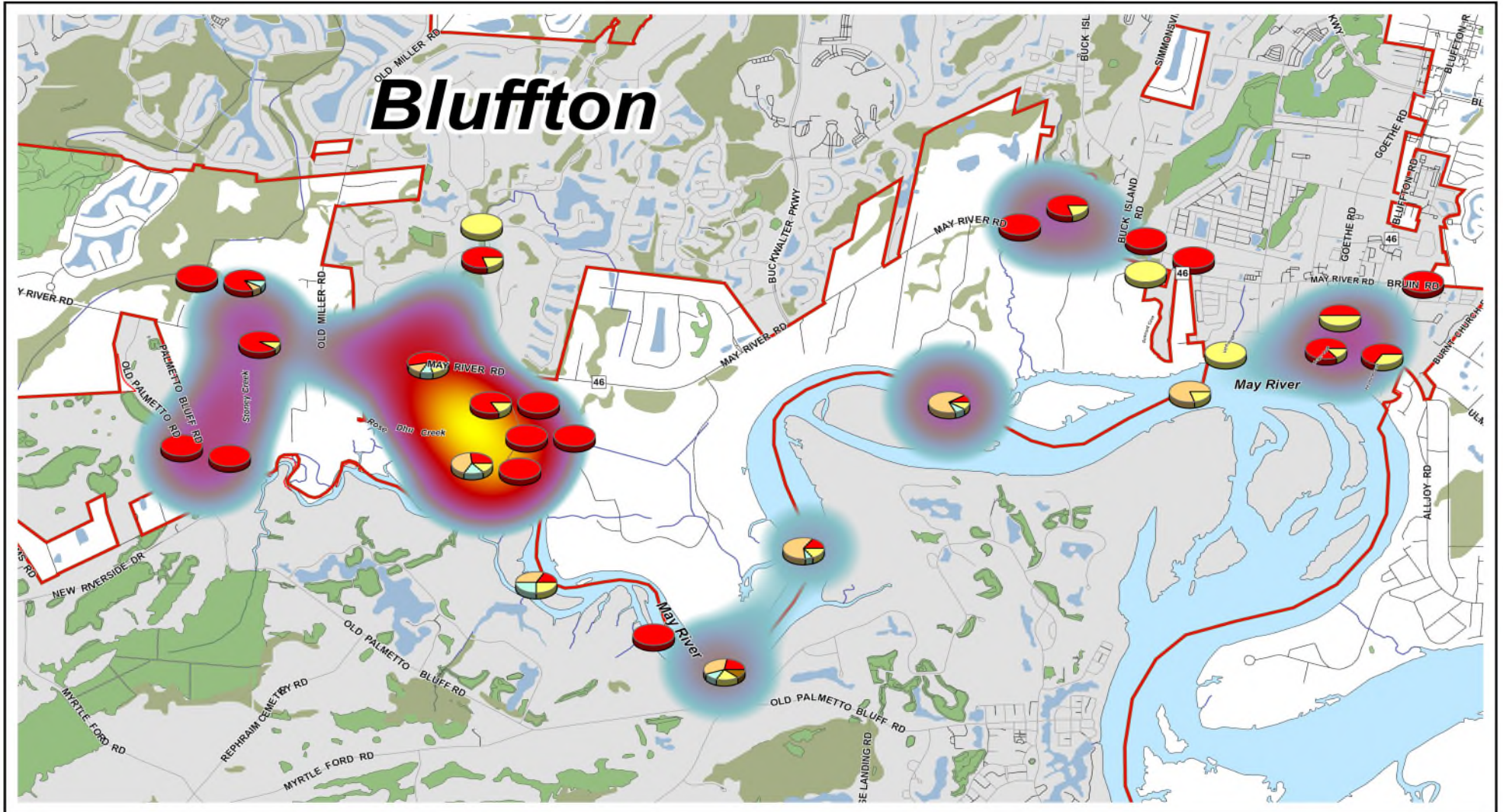


	USCB Water Quality Samples	Microbial Source Tracking Samples	MS4 Quarterly Samples Collected
FY 2024 YTD Totals	141	19	81
FY 2023 Totals	584	108	108
FY 2022 Totals	447	78	119

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

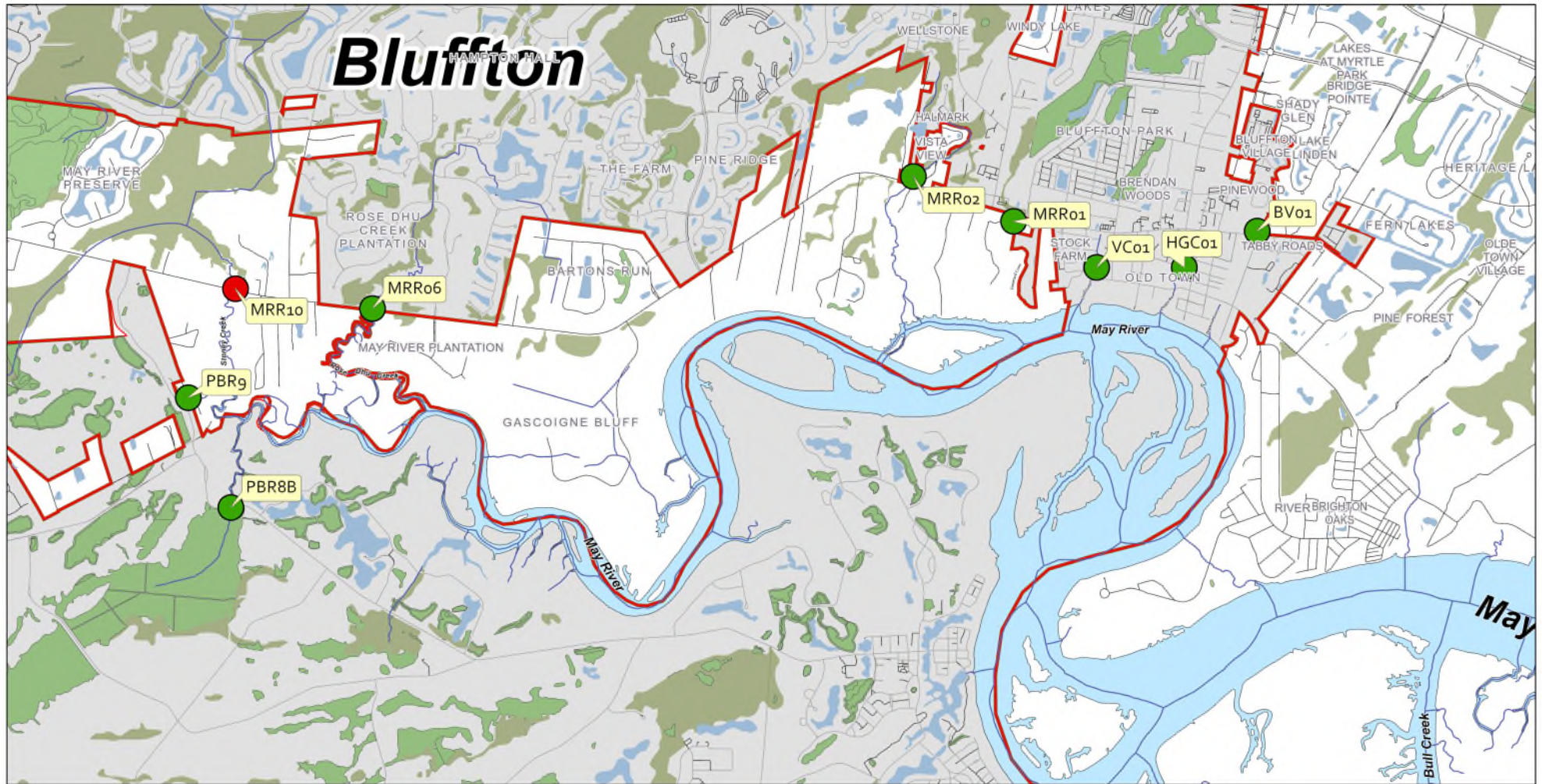
Samples at Sites With Positive Detection  
and the Intensity of Positive Hits

Town of Bluffton  
Beaufort County, SC





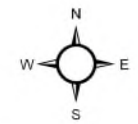
# MS4 Minimum Control Measure #3 – IDDE: Microbial Source Tracking (MST) Map – Human Sources



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

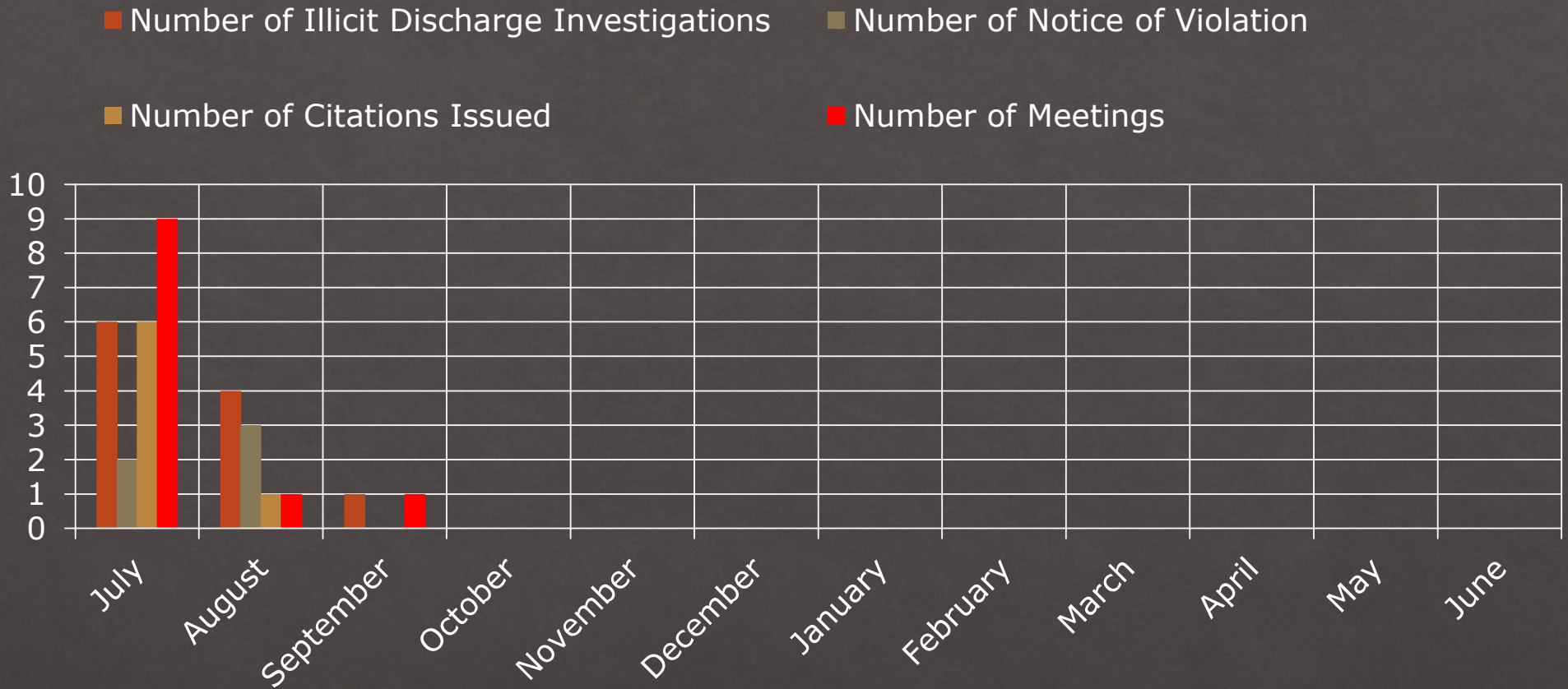
## MICROBIAL SOURCE TRACKING LOCATIONS Sampling Results August 2023 MS4 Sampling

Town of Bluffton  
Beaufort County, SC



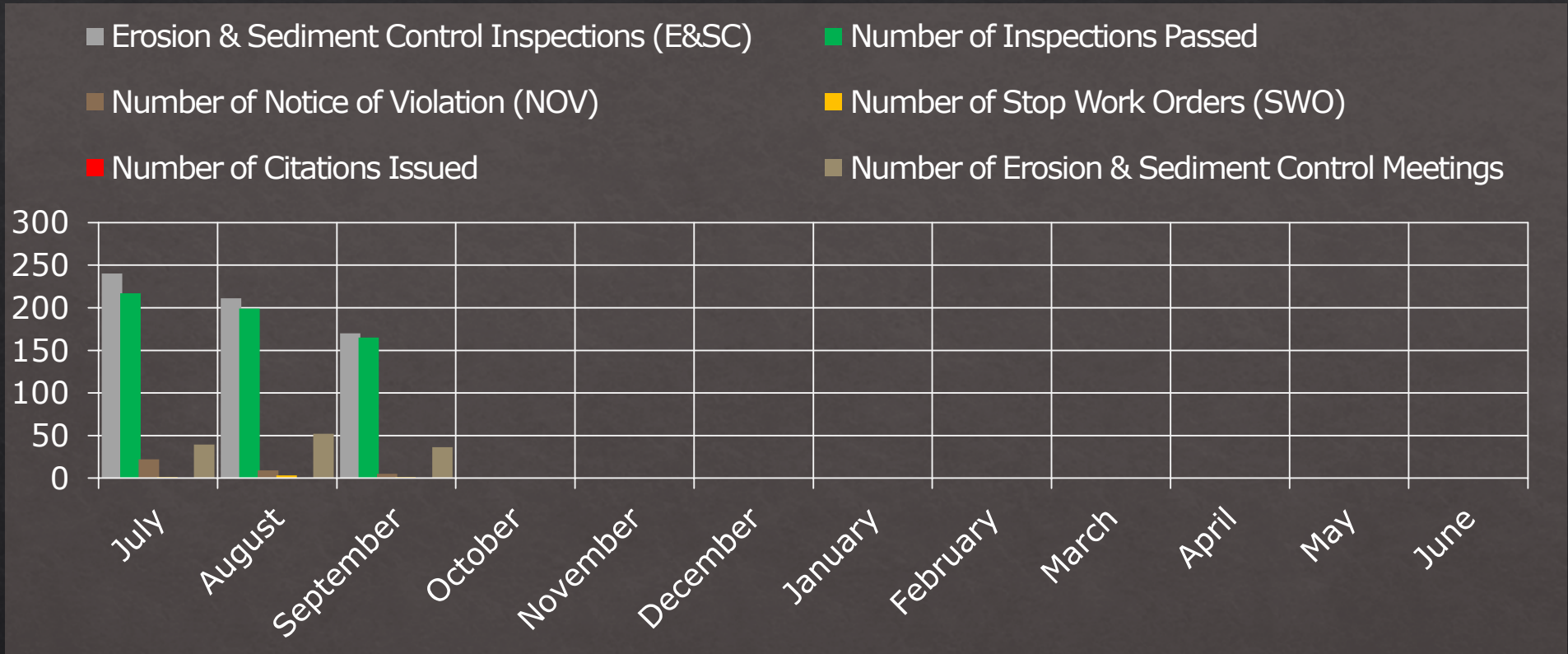


# MS4 Minimum Control Measure #3 – IDDE: Illicit Discharge Investigations



	Number of Illicit Discharge Investigations	Number of Notices of Violation Issued	Number of Citations Issued	Number of Meetings
FY 2024 YTD Totals	11	5	7	11
FY 2023 Totals	27	89	1	20
FY 2022 Totals	30	5	3	17

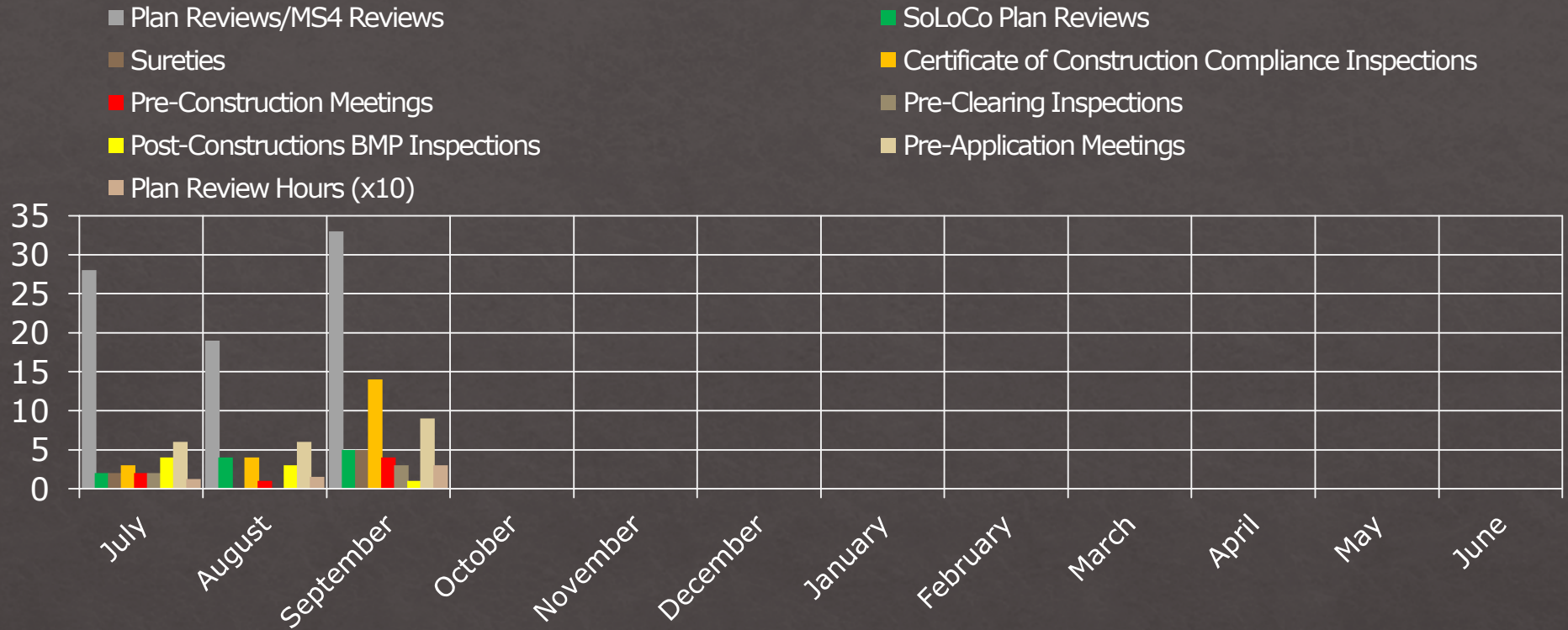
# MS4 Minimum Control Measure #4 - Construction Site Stormwater Runoff Control



	Number of Sediment & Erosion Control Inspections	Number of Inspections Passed	Number of NOVs Issued	Number of SWO Issued	Number of Citations Issued	Number of E&SC Meetings
FY 2024 YTD Totals	621	581	36	5	0	127
FY 2023 Totals	2,321	2,030	266	26	0	577
FY 2022 Totals	3,127	2,701	392	49	0	673



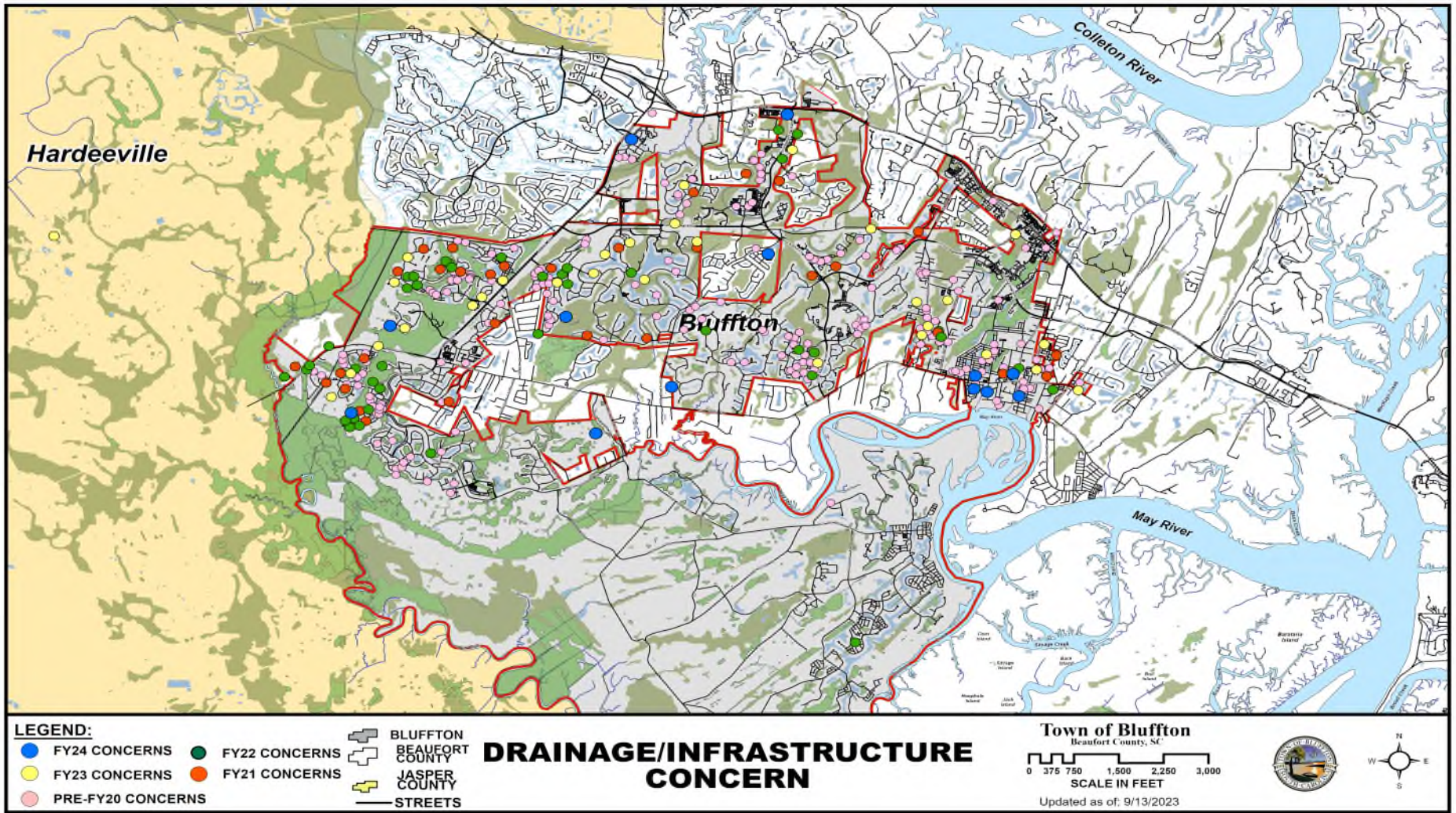
# MS4 Minimum Control Measure #5 Stormwater Plan Review & Related Activity



	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	80	11	7	21	7	5	8	21	57.50 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.



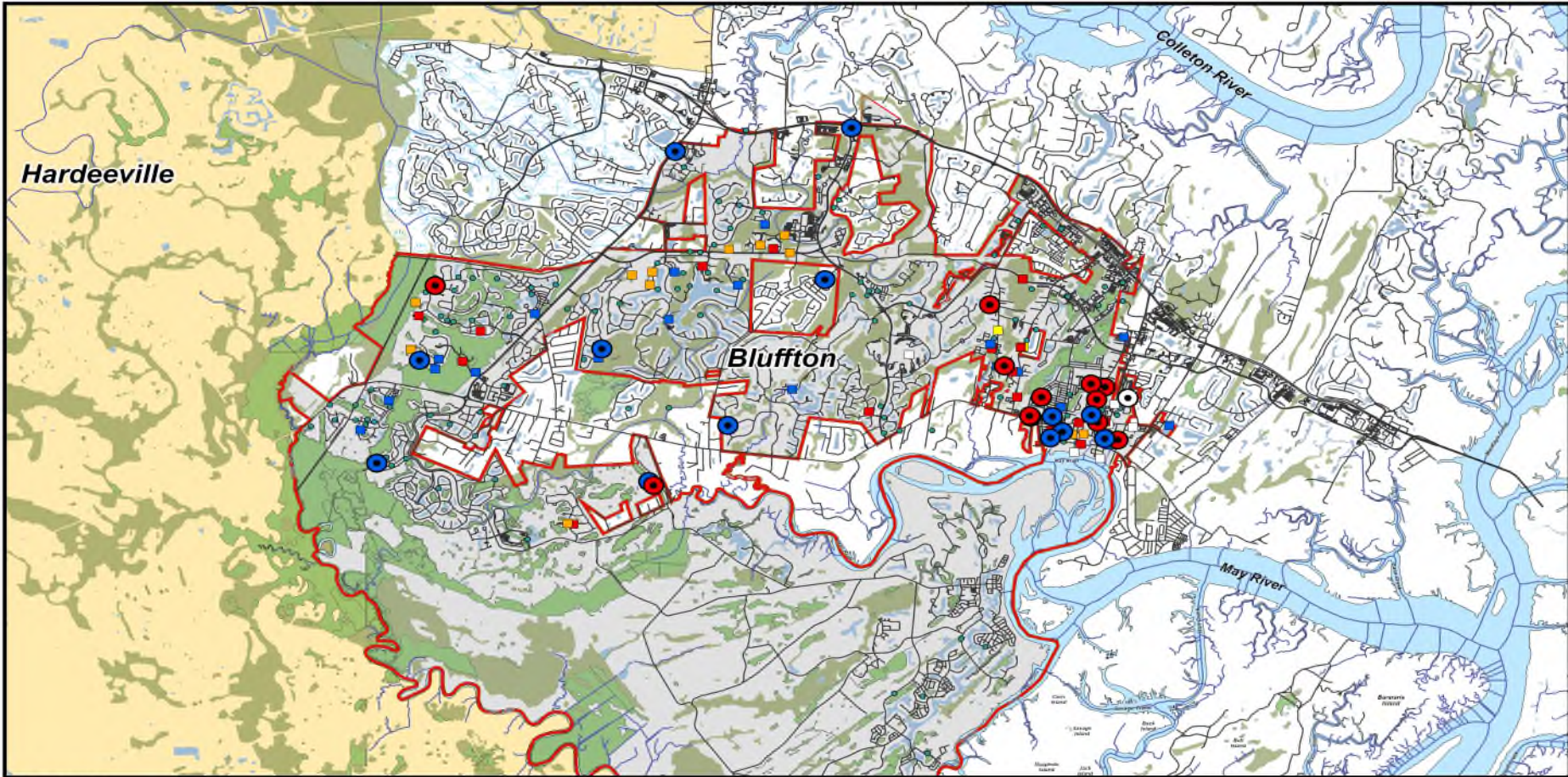
# Citizen Drainage, Maintenance and Inspections Concerns Map



	Number of Drainage Concerns Investigated	Number of Meetings
FY 2024 YTD Totals	14	0
FY 2023 Totals	61	52
FY 2022 Totals	38	34



# Citizen Request for Watershed Mngt. Services & Activities Map



**LEGEND:**

- EROSION
- IDDE
- DRAINAGE/ FLOODING EDUCATION/ OUTREACH
- INFRASTRUCTURE/ MAINTENANCE OTHER
- Fy 2023 Reports

**NON ROUTINE WATERSHED MANAGEMENT SERVICES & ACTIVITIES MAP**

BLUFFTON

BEAUFORT COUNTY

STREET

Town of Bluffton

Beaufort County, SC

0 375 750 1,500 2,250 3,000

SCALE IN FEET

Updated Date: 9/13/2023

	Number of Citizen Requests Investigated	Number of Meetings
FY 2024 YTD Totals	25	15
FY 2023 Totals	46	23
FY 2022 Totals	33	21

# FY24 CIP Master Project Schedule

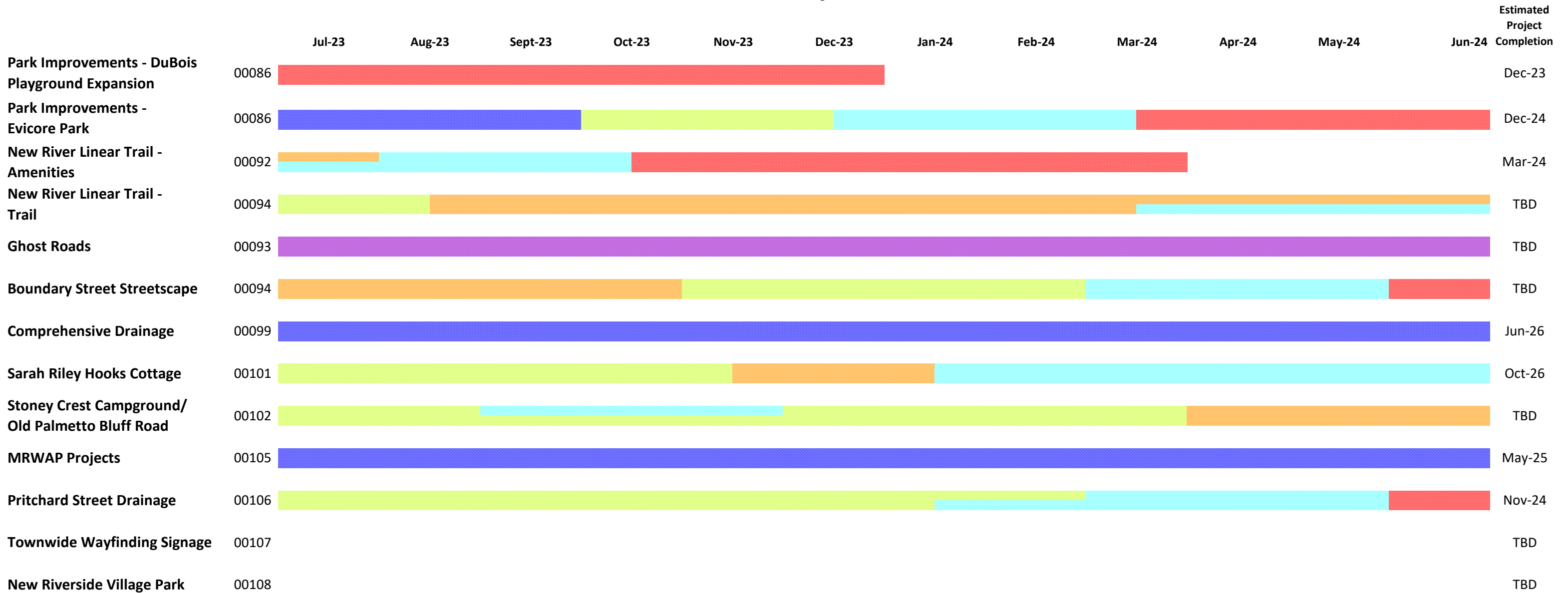


■ Planning & Conceptual Design  
 ■ Final Design & Construction Documents  
 ■ Permitting  
 ■ Easement & Land Acquisition  
 ■ Bidding & Contracts  
 ■ Construction

\*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\*



BEAUFORT COUNTY  
STORMWATER MANAGEMENT UTILITY BOARD AGENDA  
Wednesday, December 13th, 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 – October 18th, 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

6. NEW BUSINESS

7. PUBLIC COMMENT

8. NEXT MEETING AGENDA

- A. Wednesday, February 14th ([backup](#))

9. ADJOURNMENT

