



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

October 12, 2022

Stormwater Utility Board Packet – October 2022

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2. Stormwater Projects Report – [Attached](#)
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4. Draft 12.14.2022 Agenda - [Attached](#)



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, October 19th, 2022, 2:00 p.m.
Evergreen Regional Pond
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 17th, 2022 ([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 – Julianna Corbin ([backup](#))
 - E. Upcoming Professional Contracts Report – Julianna Corbin ([backup](#))
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 - G. Municipal Reports – Katie Herrera ([backup](#))
 - H. MS4 Update – Katie Herrera([backup](#))
 - I. Staff Update – Katie Herrera ([backup](#))
 - J. Maintenance Projects Report – Matthew Rausch ([backup](#))
 - K. Liaison Report - Ms. Alice Howard
5. UNFINISHED BUSINESS
6. NEW BUSINESS
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
- A. Wednesday, December 14th 2022 ([backup](#))
9. ADJOURNMENT





Beaufort County Stormwater Management Utility Board (SWMU Board)

Meeting Minutes

August 17th, 2022 at 2:00 p.m.
Beaufort County Council Chambers

Board Members

Present

Steven Andrews
Ron Buchanan
Patrick Mitchell
Dennis Ross
Ed Warner

Absent

James Clark
James Fargher
Marc Feinberg

Ex-Officio Members

Present

Bill Baugher
Van Willis
Jacob Terry

Absent

Nate Farrow
Jeff Netzinger

Beaufort County Staff

Katie Herrera
Neil Desai
Julianna Corbin
Jon Spencer
Carolyn Wallace

Matt Rausch

Visitors

Alice Howard, County Council
Ellen Sturup Comeau, Clemson Extension
Danielle Mickel

1. Meeting called to order – Mr. Patrick Mitchell at 2:00 pm

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

2. Introductions – Completed.

- ✓ Mr. Mitchell welcomes Mr. Ron Buchannan, Mr. Dennis Ross, and Mr. Ed Warner.

3. Public Comment(s) – None.

4. Special Presentations – None.

5.Reports

A. Utility Update – Mrs. Katie Herrera

- ✓ Mrs. Herrera presents the Barrett Lawrimore Award before the council, which was received for collaborative efforts to develop and implement the Southern Lowcountry Stormwater Manual.
- ✓ Southern Lowcountry Regional Board (SoLoCo)
 - a) The current schedule for completion and finalization on the document and activities of Center for Watershed Protection (CWP) is as follows:
- ✓ Regionalization
 - a) Staff continues to support coordination on permitting standards. Scheduling a meeting with the technical subcommittee scheduled for August 18th.
 - b) Staff continues to support other municipalities in their efforts to move forward with adoption.
 - c) The SoLoCo Manual was the winner of the Barret Lawrimore Regional Cooperation Award from the South Carolina Association of Counties.
 - d) Upcoming SoLoCo presentations – StormCon (September – MD), SESWA (October – HHI)
- ✓ Special presentation suggestions –
 - Suggestions for Future Meetings
 - Research performed by Dr. Montie – Summer 2022
 - Open House – Evergreen Regional Pond – Fall 2022
 - Mike Johnson – CP&P Pipe
 - Dr. Warren Lab update – Fall 2022
- ✓ Military installation and other State and Federal properties SWU fees – See “Delinquent Accounts” below.
- ✓ Delinquent accounts – Phase I Investigations with Gentry Locke Attorneys (looking at data, laws, ordinances, synopsis of case law) to provide recommendations and likely outcomes of either negotiations or litigation.
 - IGA amendments for the Town of Port Royal have been approved. At time of report, still awaiting copies.
- ✓ Reminder: Annual Financial report from the Municipalities are due – Per the Intergovernmental Agreements for the Utility, each year on September 30th, the City and Towns are required to submit a summary of revenue and expenditures for the previous fiscal year.
 - a) Beaufort County – Received.
 - b) Town of Hilton Head Island – Received.
 - c) Town of Bluffton – Received.
 - d) Town of Port Royal – Not received.
 - e) City of Beaufort – Not Received.

B. Monitoring Update – Mrs. Danielle Mickel

- ✓ Mrs. Danielle Mickel addressed the water lab monitoring.

C. Stormwater Implementation Committee (SWIC) Report – Ms. Julianna Corbin

- ✓ Mentioned the Shell Point Task Force implementation and planning meeting with J. Bragg Consulting, Inc.

D. Stormwater Related Projects – Ms. Julianna Corbin

- ✓ Easements – Staff is working on easement requests and meets monthly to review status of each as well as any new easements coming in. Edits to the Extent of Service and Level of Service documents pending Council guidance prior to finalization
- ✓ Complaints – Staff continually works numerous drainage related complaints each month.
 - a) Shell Point Community – Notice to proceed issued to J. Bragg Consultants, Inc August 1, 2022 and kick off meeting scheduled shortly thereafter
- ✓ Factory Creek Watershed Regional Detention Basin “Phase II” (Design Cost = \$63,390, Tree Mitigation Cost is pending, Construction Cost by the Developer) –Staff sent a final letter to the property owner in late June and is preparing to take legal action.
- ✓ Graves Property / Pepper Hall Public / private partnership – Construction continues on site
- ✓ Whitehall property purchase – Construction continues on City property.
- ✓ Lady’s Island Plan, Sea Level Rise, and “no-fill” ordinance – No update at this time
- ✓ Tuxedo Park Pond Dredging- Bid opportunity closed on July 18th with two bids. At time of report, staff is collecting further estimates.
- ✓ Huspah Court North- Bid opportunity closed on July 22nd with no bids. This has prompted staff to draft an RFQ for on-call contractors for such work and to act as an extension of the infrastructure team when needed. This work could be done in house pending schedules.
- ✓ Bessie’s Lane- Similar project scope to Huspah Court North. In house designs were finalized and bid documents posted on July 18th.
- ✓ Arthur Horne Park- County staff continues to cooperate with the engineering team doing the Preliminary Investigatory Feasibility Report (PIFR) and our Natural Resources Conservation Service (NRCS) representative. The majority of this work thus far has been collecting water quality, shellfish, and project information within the HUC-10 watershed. The draft PIFR delivery date is August 22, and the final report will follow mid-September. There may be opportunities to do additional projects within the area as well. The PIFR is being funded through NRCS at no expense to the County.

E. Professional Contracts – Ms. Julianna Corbin

- ✓ CIP FY 18 Grouping Stormwater Projects – (Design - Ward Edwards \$202,000, Andrews Engineering \$560,490, Const. est. \$5,512,900)
- ✓ Brewer Memorial –Closeout process is in progress, and as-built survey data was collected July 25. Educational Signage expected to be received the first week of August and installed shortly thereafter, soft opening event to be scheduled following that milestone.
- ✓ Evergreen Regional Pond 319 grant project – (Design=\$89,286, Construction=\$590,000. Grant=\$229,124) – Project work complete on August 1.
- ✓ Stormwater engineering consulting services – Woolpert
 - Scope #1 – General Services – Anything relating to Stormwater as a catch all scope. Allocated Funds – \$15,000.00.
 - Scope #2 – Southern Lowcountry Design Manual Training – This was completed prior to June of this year. Training set up for in house staff as well as developers in the County. Allocated funds - \$30,000.00.
 - Scope #3 – Comprehensive program audit. Reviewing all components of the MS4 program, CIP list, Utility, asset management, etch. Allocated funds - \$105,000.00. Audit has been completed. Staff are making adjustments to program in accordance with recommendations of the audit.
 - Scope #4 – Tax Run and Utility assistance. In the event the County needed assistance with assessing SW Fees, we have them available on call. We will also look to have them QA/QC data from previous years. Allocated funds - \$29,900.00.
 - Scope #5 – Battery Creek Pond – The grate-style trash rack recommended to relieve issues of trash reaching the marshes of Battery Creek has been installed and staff makes frequent visits to observe function and efficacy. See attached photos.
 - Scope #6 – Turtle Lane drainage study. Continuously flooded property, Stormwater staff wanted to determine if it would be useful to purchase and put BMP in place. Determination was no BMP yet but could fit into larger study of Northern Lady’s Island. Allocated funds - \$10,000.00. Project Completed.
 - Scope #7 – NPDES SMS4 general permit assistance
 - Scope #8 – St. Helena Drainage Study. Final report draft received 6/30
 - Scope #9 – Arthur Horne Park 319 Grant Funding – SC DHEC sent 319 grant decision letter to county staff on July 29 that the project was not selected for funding through the grant opportunity.
 - Scope #10 – Lady’s Island Drainage Study Phase I – County staff received GIS data on 6/30, Phase II (hydrologic and hydraulic modeling) scope authorized by county staff on July 20.
- ✓ Scopes on County and Woolpert Radar:
- ✓ Mint Farm and Rivers End Water Quality Retrofits

F. Regional Coordination – Mrs. Katie Herrera

- ✓ County Staff working with NRCS engineering firm to incorporate projects for water quality amongst the City of Beaufort and Town of Port Royal.

G. Municipal Reports

- ✓ Town of Bluffton – Mr. Bill Baugher
 - Establishing an infrastructure water flow study.
 - Installed a new tidal gauge.
- ✓ Town of Port Royal – Mr. Van Willis
 - Establishing a water park study for Cypress Wet Lands duplication.
- ✓ Town of Hilton Head – Mr. Jacob Terry
 - Working on software updates.

H. MS4 Report – Mrs. Katie Herrera

- ✓ Plan Review
- ✓ Stormwater Permits
- ✓ Monthly Inspection Summary
 - Averaging over 700 inspections.
 - Currently interviewing candidates for senior inspector position.
 - DHEC late fee bill has been resolved.
- ✓ Public Education – Mrs. Ellen Comeau
 - There has been an increase of calls pertaining to septic systems, which is a good thing.
 - There are plans for more festivals in the upcoming months.
- ✓ Public Education – Mrs. Katie Herrera
 - BMPs for Sea Island Parkway open house will be in September.
- ✓ MS4 Statewide General permit – Katie Herrera
 - September 1st will be the SCASM meeting.

I. Staff Update

- ✓ Stormwater Infrastructure is nearly fully staffed
- ✓ Stormwater Regulatory budget for a Senior Stormwater Inspector has been approved.

J. Maintenance Report

- ✓ Several major projects and minor projects.

6. Liaison Report – Beaufort County Council – Alice Howard

Highlights

7. Unfinished Business – Mr. Patrick Mitchell congratulated Mrs. Alice Howard on the winning of her award.

8. New Business

- ✓ Mrs. Katie Herrera is planning to coordinate a special presentation with Woolpert to demonstrate a drainage study with Mr. Glover

9. No Public Comment

10. Meeting Adjourned



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September 2022

Stormwater Manager's Report for the Stormwater Utility Board Meeting

Utility Update

1. Southern Lowcountry Regional Board (SoLoCo)
 - a) The current schedule for completion and finalization on the document and activities of Center for Watershed Protection (CWP) is as follows:
2. Regionalization
 - a) Staff continues to support coordination on permitting standards.
 - A regional meeting was held on August 18th to discuss amending items within the manual to make plan review easier for staff, as well as the development community. A feedback period was provided to the development community and some response was provided by the October 4th deadline. Staff will integrate comments as necessary, and any proposed amendments to the manual shall be provided to the Utility board for comment and review.
 - b) Staff continues to support other municipalities in their efforts to move forward with adoption.
 - City of Beaufort adopted the SoLoCo manual on August 23rd.
 - Jasper County has informed a large development that they will be required to meet the standards of the SoLoCo manual.
 - c) The SoLoCo Manual was the winner of the Barret Lawrimore Regional Cooperation Award from the South Carolina Association of Counties.
 - d) Upcoming SoLoCo presentations –Water Resources (October – Columbia)
3. Special presentation suggestions –
 - Suggestions for Future Meetings
 - Mike Johnson – CP&P Pipe – Spring 2023
 - St. Helena Drainage Study – December 2022
4. Military installation and other State and Federal properties SWU fees – See “Delinquent Accounts” below.
5. Delinquent accounts – Phase I Investigations with Gentry Locke Attorneys (looking at data, laws, ordinances, synopsis of case law) to provide recommendations and likely outcomes of either negotiations or litigation.
 - IGA amendments for the Town of Port Royal have been approved. At time of report, still awaiting copies.

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6. Reminder: Annual Financial report from the Municipalities are due – Per the Intergovernmental Agreements for the Utility, each year on September 30th, the City and Towns are required to submit a summary of revenue and expenditures for the previous fiscal year.
 - a) Beaufort County – Received.
 - b) Town of Hilton Head Island – Received.
 - c) Town of Bluffton – Received.
 - d) Town of Port Royal – Not received.
 - e) City of Beaufort – Not Received.

7. The 2021 Tax Run was completed on time and has been sent on to the Assessors Office.

Monitoring Update

1. Lab Update (From Lab Manager Danielle Mickel)
 - i. [See attached report.](#)
 - ii. With Dr. Alan Warren being let go by USCB, they are requesting a new lab manager be appointed. Both the County and Town of Bluffton staff are providing a coordinated response to this request.

Stormwater Implementation Committee (SWIC) Report

1. CWI reports for FY2022 were sent to each municipality. A meeting will be coordinated in the near future to discuss the future of the CWI fee.

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 coming in. Staff is coordinating with the Legal department to create a resolution to adopt changes to the Level and Extent of service policies.

2. Complaints – Staff continually works numerous drainage related complaints each month.
 - a) Shell Point Community – J. Bragg Consulting has worked with County IT staff to develop a website to be the hub of community communication for the project. Community meeting to relay this information is scheduled for October 11. Scope and fee for design and permitting subconsultants are being finalized with work to commence shortly thereafter.

3. Factory Creek Watershed Regional Detention Basin “Phase II” (Design Cost = \$63,390, Tree Mitigation Cost is pending, Construction Cost by the Developer) – Staff met with Beaufort County legal on Sept 7th.

4. Graves Property / Pepper Hall Public / private partnership – Construction continues on site

5. Whitehall property purchase – Construction continues on City property.

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6. Lady's Island Plan, Sea Level Rise, and "no-fill" ordinance – No update at this time
7. Tuxedo Park Pond Dredging- Project deferred to FY24
8. Huspah Court North- To be contracted through on-call contractor RFQ, which closes on November 4, 2022.
9. Bessie's Lane- Similar project scope to Huspah Court North. To be contracted through on-call contractor RFQ, which closes on November 4, 2022.
10. Arthur Horne Park- The draft Preliminary Investigatory Feasibility Report (PIFR) report, delivered in late August, was positive. The final report was delivered to the State Conservationist and approved to move forward with the Planning phase of the project. This will also be sent to the Governor for notification. Projects included in the PIFR for funding allocation were Southside Park (City of Beaufort), Shanklin Rd wetland retrofit (previously removed from CIP plan), improvements to the Beaufort County Administration Building stormwater pond, and additional allocations to the existing stormwater education campaign. Following the approval process, NRCS and their contractors will be heavily involved in the design process of the park.

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 – Punch list was issued to contractor on September 20. Grand opening event, originally scheduled for late October, has been pushed back to allow for Passive Parks department and Open Land Trust to make updates.
2. Evergreen Regional Pond 319 grant project – (Design=\$89,286, Construction=\$590,000. Grant=\$229,124) – Project closeout project continues with final inspection by Town of Bluffton pending. Public outreach event to be scheduled for late October, early November. Staff is working with 4Waters to complete the final project closeout package to DHEC.
3. Stormwater engineering consulting services – Woolpert
 - a) Scope #1 – General Services – Anything relating to Stormwater as a catch all scope. Allocated Funds – \$15,000.00.
 - b) Scope #2 – Southern Lowcountry Design Manual Training – This was completed prior to June of this year. Training set up for in house staff as well as developers in the County. Allocated funds - \$30,000.00.
 - c) Scope #3 – Comprehensive program audit. Reviewing all components of the MS4 program, CIP list, Utility, asset management, etch. Allocated funds - \$105,000.00. Audit has been completed. Staff are making adjustments to program in accordance with recommendations of the audit.
 - d) Scope #4 – Tax Run and Utility assistance. In the event the County needed assistance with assessing SW Fees, we have them available on call. We will also look to have them QA/QC data from previous years. Allocated funds - \$29,900.00.

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- e) Scope #5 – Battery Creek Pond –Project complete.
- f) Scope #6 – Turtle Lane drainage study. Project Completed.
- g) Scope #7 – NPDES SMS4 general permit assistance
- h) Scope #8 – St. Helena Drainage Study. Final report draft received 6/30. Presentation to the SWUB will be December 2022.
- i) Scope #9 – Arthur Horne Park 319 Grant Funding –Scope completed.
- j) Scope #10 – Lady’s Island Drainage Study Phase I – Woolpert has completed the hydrologic and hydraulic model and continues to run storm scenarios

11. Scopes on County and Woolpert Radar:

- 1. Mint Farm and Rivers End Water Quality Retrofits

Regional Coordination

- 1. See “Stormwater Related Projects” item #10.

Municipal Reports

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

MS4 Report

- 1. Plan Review – [See the attached chart](#) for Beaufort County Stormwater staff plan review workload for the past 12 months.
- 2. Stormwater Permits – [See the attached chart](#) for Beaufort County Stormwater permits issued for the past 12 months.
- 3. Monthly Inspection summary - [See the attached chart](#) for Beaufort County Stormwater staff inspection, complaint, IDDE, and violations summary for the past 12 months.
- 4. Weather Station Data – Report unavailable.
- 5. Public Education – Report unavailable.
- 6. Energov permitting software – Staff is coordinating with the Zoning department to take over

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issuance of Stormwater permits.

7. MS4 Statewide General permit – No update at this time.

Staff Update

1. The Department continues to conduct interviews for all vacant positions in Stormwater.
2. Stormwater Regulatory staff are in full certification education mode with the Master Pond Management, as well as Master Rain Garden held by Clemson University.
3. Katie Herrera was appointed to the Board of Directors for the Southeastern Stormwater Association, beginning in 2023.
4. Johanna Zoran was named the Employee of the Quarter for Public Works between July and September 2022.



MEMORANDUM

Date: October 6, 2022

To: Stormwater Management Utility Board

From: Matthew Rausch, Stormwater Infrastructure Superintendent

Re: **Maintenance Project Report**

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

Major Projects:

- **Eternity Lane Channel – St. Helena Island (8):** This project improved 935 linear feet of drainage system. The scope of work included grubbing and clearing 1,050 linear feet of workshelf by a sub-contractor. Reconstructing and cleaning out 935 linear feet of channel ditch. Installing (2) access pipes, (2) bleeder pipes, rip rap and hydroseeded for erosion control. The total cost was **\$100,503.06**.
- **Cleveland Drive – Port Royal Island (6):** This project improved 9,599 linear feet of drainage system. The scope of work included cleaning out 2,568 linear feet of channel and bush hogging 6,931 of channel. Installing a French drain with 100 linear feet of flex pipe. The total cost was **\$22,598.86**.
- **Joe Allen Drive – Port Royal Island (6):** This project improved 3,970 linear feet of drainage system. The scope of work included grubbing and clearing 155 linear feet of workshelf, reconstructing 578 linear feet of channel ditch, and cleaning out 3,237 linear feet of roadside ditch. Jetted (9) driveways and (3) crossline pipes. Installed rip rap around pipes for erosion control. The total cost was **\$24,698.15**.
- **Pond Maintenance – Lady’s Island (7):** The scope of work included dewatering ponds, removing debris from perimeter of ponds, repairing a check dam, and installing rip rap for erosion control. The total cost was **\$16,040.16**.
- **Huron Drive – Port Royal Island (6,9):** This project improved 20 linear feet of drainage system. The scope of work included extending a driveway pipe by 20 linear feet and installing rip rap for erosion control. The total cost was **\$19,843.31**.

Minor or Routine Projects:

- **MC Riley Park – Bluffton (4):** The scope of work included repairing a sinkhole. The total cost was **\$2,235.92**.
- **Port Royal Island Bush Hog – Port Royal Island (6, 9):** This project improved 78,553 linear feet of drainage system. The scope of work included bush hogging

71,836 linear feet of channel and 6,717 linear feet of roadside ditch. The total cost was **\$54,617.79**.

- **Sheldon Bush Hog 1st Rotation – Sheldon (5):** This project improved 77,028 linear feet of drainage system. The scope of work included bush hogging 70,378 linear feet of channel and 6,650 linear feet of roadside ditch. The total cost was **\$49,451.62**.
- **Sheldon Bush Hog 2nd Rotation – Sheldon (5)** This project improved 87,498 linear feet of drainage system. The scope of work included bush hogging 70,526 linear feet of channel and 16,972 linear feet of roadside ditch. The total cost was **\$55,492.27**.
- **Sheldon Vacuum Truck – Sheldon (5):** This project improved 16 linear feet of drainage system. The scope of work included cleaning out (3) catch basins, jetting (3) driveway pipes, (3) crossline pipes and 16 linear feet of channel pipe. The total cost was **\$2,903.81**.
- **Fox Island Road– Bluffton (4):** This project improved 1,348 linear feet of drainage system. The scope of work included cleaning out 1,348 linear feet of roadside ditch. The total cost was **\$6,303.62**.
- **Westboro Road – Port Royal Island (6,9):** The scope of work included repairing a sinkhole and installing rip rap for erosion control. The total cost was **\$9,824.47**.
- **Frazier Landing Road – Sheldon (5):** This project improved 50 linear feet of drainage system. The scope of work included cleaning out 50 linear feet of roadside ditch and installing (1) driveway pipe and rip rap for erosion control. The total cost was **\$6,602.26**.
- **Ned Court – Bluffton (4):** This project improved 417 linear feet of drainage system. The scope of work included cleaning out 417 linear feet of roadside ditch and (2) catch basins. Jetting (3) driveway pipes, (1) crossline pipe and 40 linear feet of channel pipe. The total cost was **\$4,212.64**.
- **ToHHI Vacuum Truck – Hilton Head Island (3):** This project improved 514 linear feet of drainage system. The scope of work included cleaning (2) catch basins, jetting (1) driveway pipe, (4) crossline pipes, 174 linear feet of channel pipe and 320 linear feet of roadside pipe. Cleaned out and jetted 20 linear feet of trough. The total cost was **\$7,114.27**.
- **Lady’s Island Airport Bush Hog – Lady’s Island (7):** This project improved 34,622 linear feet of drainage system. The scope of work included bush hogging 34,622 linear feet of channel. The total cost was **\$14,187.33**.



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Eternity Lane Channel

Activity: Routine/Preventive Maintenance

Duration: 03/03/2022 - 04/13/2022

Narrative Description of Project:

Project improved 935 L.F. of drainage system. Grubbed and cleared 1,050 L.F. of workshelf by sub-contractor. Reconstructed and cleaned out 935 L.F. of channel ditch. Installed (2) access pipes, (2) bleeder pipes, rip rap and hydroseeded for erosion control.

2022-550 / Eternity Lane Channel

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
APINS / Access pipe - installed	72.00	\$1,885.92	\$555.70	\$729.80	\$0.00	\$1,320.80	\$4,492.22
AUDIT / Audit Project	5.00	\$163.70	\$0.00	\$0.00	\$0.00	\$101.05	\$264.75
BKFILL / Back Fill	24.00	\$739.72	\$146.61	\$138.03	\$0.00	\$490.20	\$1,514.56
BPINST / Bleeder pipe - Installed	24.00	\$790.40	\$316.61	\$238.05	\$0.00	\$512.48	\$1,857.54
CCO / Channel - cleaned out	88.00	\$2,689.04	\$1,233.82	\$364.38	\$0.00	\$1,403.20	\$5,690.44
DEBRIS / Debris Removal	68.00	\$1,579.12	\$601.53	\$318.72	\$0.00	\$1,186.12	\$3,685.49
GRDNRD / Grading - non-roads	24.00	\$695.04	\$290.20	\$137.10	\$0.00	\$471.84	\$1,594.18
HAUL / Hauling	201.00	\$6,151.08	\$3,678.58	\$5,487.70	\$0.00	\$3,363.34	\$18,680.70
HEQ / Haul equipment	28.00	\$782.88	\$398.60	\$268.80	\$0.00	\$382.32	\$1,832.60
HYDR / Hydroseeding	16.00	\$479.44	\$75.62	\$1,005.56	\$0.00	\$321.44	\$1,882.06
LM / Loading Materials	16.00	\$520.56	\$371.76	\$96.84	\$0.00	\$337.52	\$1,326.68

Continued on the next page

2022-550 / Eternity Lane Channel *cont'd*

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
NONPRO / Non-Professional Services	0.00	\$0.00	\$0.00	\$0.00	\$49,200.00	\$0.00	\$49,200.00
RMTRW / Remove trees - Workshelf	16.00	\$438.32	\$34.80	\$46.76	\$0.00	\$305.36	\$825.24
RRI / Rip Rap - Installed	16.00	\$438.32	\$34.80	\$26.72	\$0.00	\$272.40	\$772.24
SG / Shoot Grade	16.00	\$438.32	\$34.80	\$30.06	\$0.00	\$272.40	\$775.58
WSDR / Workshelf - Dressed	32.00	\$876.64	\$69.60	\$94.40	\$0.00	\$577.76	\$1,618.40
WGRB / Workshelf - Grubbed	16.00	\$520.56	\$371.76	\$179.32	\$0.00	\$337.52	\$1,409.16
WSL / Workshelf - Level	56.00	\$1,414.40	\$762.97	\$211.54	\$0.00	\$692.32	\$3,081.23
Grand Total	718.00	\$20,603.46	\$8,977.76	\$9,373.77	\$49,200.00	\$12,348.07	\$100,503.06

Before



During



After





Project: Eternity Lane Map #1

Activity: Routine/ Preventive Maintenance

Project #: 2022-550

Township/SW Dist: St Helena Island/8

Completed: April 2022

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 87.575 350 525 700 Feet

1 inch = 500 feet

Prepared By: BC Stormwater Management Utility

Date Print: 10/04/22

File: C:\project summaries map\Eternite Ln Map#1_2022-550



Project: Eternity Lane Map #2

Activity: Routine/ Preventive Maintenance














Project #: 2022-550

Township/SW Dist: St Helena Island/8

Completed: April 2022

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 87.575 350 525 700 Feet

1 inch = 500 feet

Prepared By: BC Stormwater Management Utility

Date Print: 10/04/22

File: C:\project summaries map\Eternite Ln Map#2_2022-550



Project: Eternity Lane
Map #3

Activity: Routine/
Preventive
Maintenance







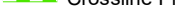



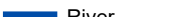


Project #:
2022-550

Township/SW Dist:
St Helena Island/8

Completed:
April 2022

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 87.575 350 525 700
Feet

1 inch = 500 feet

Prepared By: BC Stormwater Management Utility

Date Print: 10/04/22

File: C:\project summaries map\Eternite Ln Map#3_2022-550



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Cleveland Drive

Activity: Routine/Preventive Maintenance

Duration: 04/30/2021 - 06/18/2021

Narrative Description of Project:

Project improved 9,599 L.F. of drainage system. Cleaned out 2,568 L.F. of channel and bush hogged 6,931 L.F. of channel. Installed a french drain with 100 L.F. flex pipe.

2021-545 / Cleveland Drive

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	2.00	\$65.48	\$0.00	\$0.00	\$0.00	\$40.42	\$105.90
CBH / Channel- bushhogged	64.00	\$1,426.08	\$843.00	\$146.77	\$0.00	\$917.76	\$3,333.61
CCO / Channel - cleaned out	92.00	\$1,909.76	\$728.00	\$137.44	\$0.00	\$1,054.92	\$3,830.12
DEBREM / Debris Removal - Jobsite	24.00	\$495.84	\$225.06	\$21.87	\$0.00	\$443.36	\$1,186.13
FDRECON / French Drain - Reconstructed	20.00	\$424.12	\$34.80	\$220.87	\$0.00	\$336.72	\$1,016.51
HAUL / Hauling	156.00	\$3,795.32	\$2,820.88	\$1,688.70	\$0.00	\$933.40	\$9,238.30
SPD / Spreading Dirt	56.00	\$1,152.24	\$608.95	\$180.54	\$0.00	\$886.72	\$2,828.45
WSREP / Workshelf - Repair	32.00	\$706.08	\$195.00	\$52.93	\$0.00	\$105.84	\$1,059.85
Grand Total	446.00	\$9,974.92	\$5,455.69	\$2,449.11	\$0.00	\$4,719.14	\$22,598.86

(No Pictures Available)



Project: Cleveland Drive- Radio Tower Map #1

Activity: Routine/ Preventive Maintenance

Project #: 2021-545

Township/SW Dist: Port Royal Island/6

Completed: June 2021

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



1 inch = 420 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/07/22

File: C:\project summaries map\Cleveland Drive- Radio Tower Map#1_2021-545



Project: Cleveland Drive- Radio Tower Map #2

Activity: Routine/ Preventive Maintenance

Project #: 2021-545

Township/SW Dist: Port Royal Island/6

Completed: June 2021

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 90 180 360 540 720 Feet

1 inch = 420 feet

Prepared By: BC Stormwater Management Utility

Date Print:01/07/22

File:C:\project summaries map\Cleveland Drive- Radio Tower Map#2_2021-545



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Joe Allen Drive

Activity: Routine/Preventive Maintenance

Duration: 05/04/2020 - 01/14/2021

Narrative Description of Project:

Project improved 3,970 L.F. of drainage system. Grubbed and cleared 155 L.F. of workshelf, reconstructed 578 L.F. of channel ditch and cleaned out 3,237 L.F. of roadside ditch. Jetted (9) driveway pipes and (3) crossline pipes. Rip Rap around pipes for erosion control.

2020-045 / Joe Allen Drive

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	3.00	\$98.22	\$0.00	\$0.00	\$0.00	\$60.63	\$158.85
BKFILL / Back Fill	120.00	\$2,502.00	\$1,077.30	\$175.14	\$0.00	\$1,115.60	\$4,870.04
CLPJT / Crossline Pipe - Jetted	14.00	\$322.84	\$60.76	\$30.07	\$0.00	\$85.47	\$499.14
DLO / Ditch Layout	30.00	\$616.10	\$146.25	\$9.73	\$0.00	\$418.40	\$1,190.48
HAUL / Hauling	151.00	\$3,281.17	\$2,074.66	\$1,045.77	\$0.00	\$456.64	\$6,858.24
RDREC / Roadside ditch - reconstructed	35.00	\$736.55	\$146.25	\$20.85	\$0.00	\$586.40	\$1,490.05
RRI / Rip Rap - Installed	30.00	\$623.40	\$146.25	\$16.68	\$0.00	\$372.60	\$1,158.93
RSDCL / Roadside Ditch - Cleanout	180.00	\$3,776.60	\$1,036.19	\$157.07	\$0.00	\$2,156.10	\$7,125.96
UTLOC / Utility locates	1.50	\$37.05	\$0.00	\$0.00	\$0.00	\$19.85	\$56.90
WSDR / Workshelf - Dressed	40.00	\$839.80	\$146.25	\$38.92	\$0.00	\$264.60	\$1,289.57
Grand Total	604.50	\$12,833.73	\$4,833.91	\$1,494.23	\$0.00	\$5,536.28	\$24,698.15

(No Pictures Available)



Project: Joe Allen Drive
Map #1

Activity: Routine/
Preventive
Maintenance

Project #:
2020-045

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

Completed:
January 2021

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:09/13/22

File:C:\project summaries map\Joe Allen Drive_2020-045



Project: Joe Allen Drive
Map #2

Activity: Routine/
Preventive
Maintenance














Project #:
2020-045

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

Completed:
January 2021

Legend

Drainage Type

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



1 inch = 210 feet

Prepared By: BC Stormwater Management Utility

Date Print: 09/13/22

File: C:\project summaries map\Joe Allen Drive Map#2_2020-045



Project: Joe Allen Drive Map #3

Activity: Routine/ Preventive Maintenance

Project# 2020-045

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

Completed: January 2021

Legend

Drainage Type

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

0 40 80 160 240 320 Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print: 09/15/22

File: C:\project summaries map\Joe Allen Drive_2020-045



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Pond Maintenance - Backache Acres Pond, Okatie Hwy Pond and Wallace Road Pond.

Activity: Pond Maintenance

Duration: 09/07/2021 - 11/15/2021

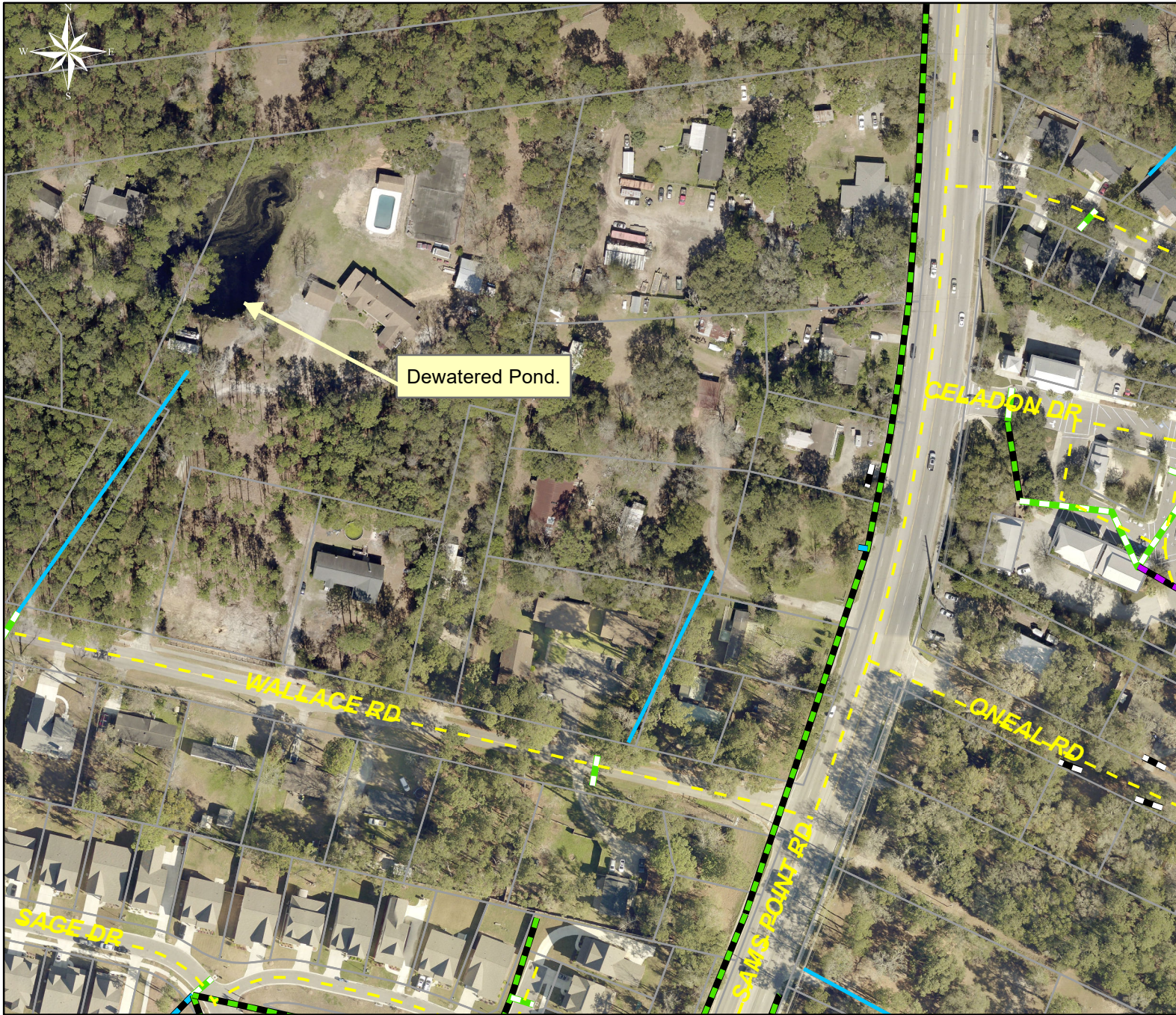
Narrative Description of Project:

Dewatered a pond. Removed debris from the perimeter of the ponds, installed rip rap and repaired check dam.

2022-320 / Pond Maintenance

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.00	\$32.74	\$0.00	\$0.00	\$0.00	\$20.21	\$52.95
DWP / Dewatered Pond	8.00	\$251.94	\$17.40	\$18.06	\$0.00	\$155.52	\$442.92
HAUL / Hauling	68.00	\$2,074.20	\$1,067.36	\$1,669.86	\$0.00	\$1,284.44	\$6,095.86
PM / Ponds - Maintenance	140.00	\$4,403.34	\$906.68	\$1,434.16	\$0.00	\$2,704.24	\$9,448.42
Grand Total	217.00	\$6,762.22	\$1,991.44	\$3,122.08	\$0.00	\$4,164.41	\$16,040.16

(No Pictures Available)



Project: Pond Maintenance
Wallace Road

Activity: Routine/
Preventive
Maintenance

Project #:
2022-320

Township/SW Dist:
Lady's Island/7

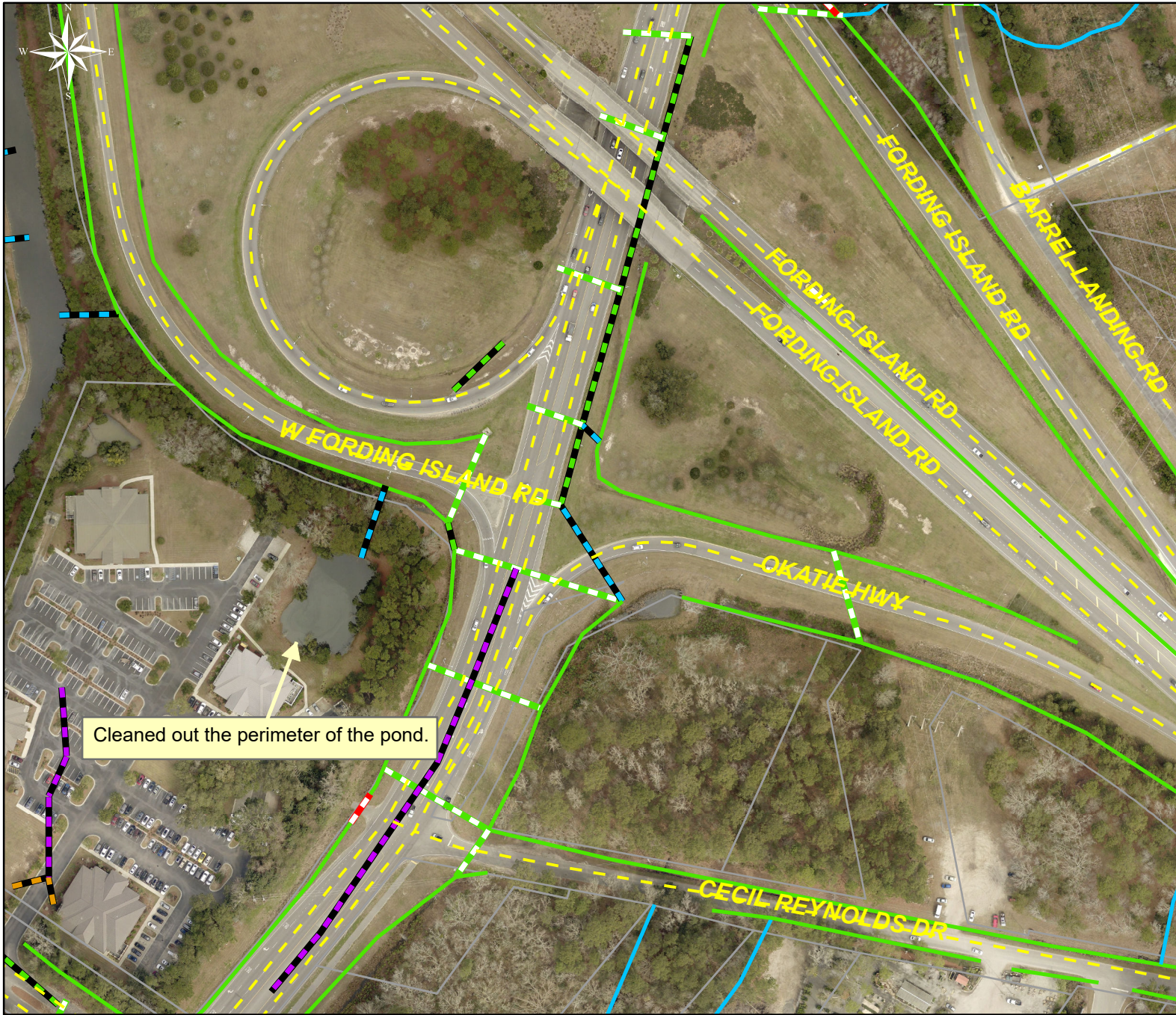
Completed:
November 2021

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 = 170 feet

Prepared By: BC Stormwater Management Utility
Date Print: 09/15/22
File: C:\project summaries map\Pond Maintenance_2022-320



Project: Pond Maintenance
Okatie Hwy

Activity: Routine/
Preventive
Maintenance

Project #:
2022-320

Township/SW Dist:
Bluffton/4

Completed:
November 2021

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 35 70 140 210 280
Feet

1 inch = 210 feet

Prepared By: BC Stormwater Management Utility

Date Print: 09/15/22

File: C:\project summaries map\Pond Maintenance_2022-320



Project: Pond Maintenance
Backache Acres

Activity: Routine/
Preventive
Maintenance

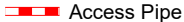






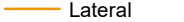





Project #:
2022-320

Township/SW Dist:
Sheldon/5

Completed:
November 2021

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 25 50 100 150 200
Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 09/15/22

File: C:\project summaries map\Pond Maintenance_2022-320



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Huron Drive

Activity: Routine/Preventive Maintenance

Duration: 10/12/2021 - 12/28/2021

Narrative Description of Project:

Extended 20 L.F. of driveway pipe. Installed rip rap for erosion control.

2021-516 / Huron Drive

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	3.00	\$98.22	\$0.00	\$0.00	\$0.00	\$60.63	\$158.85
BKFILL / Back Fill	8.00	\$174.80	\$126.03	\$25.65	\$0.00	\$0.00	\$326.48
DEBRIS / Debris Removal	32.00	\$998.72	\$86.04	\$44.54	\$0.00	\$501.84	\$1,631.14
DPEX / Driveway Pipe - Extended	24.00	\$798.99	\$176.07	\$672.56	\$0.00	\$385.28	\$2,032.90
HAUL / Hauling	52.00	\$1,496.22	\$991.12	\$4,112.12	\$0.00	\$952.40	\$7,551.86
NONPRO / Non-Professional Services	0.00	\$0.00	\$0.00	\$0.00	\$5,200.00	\$0.00	\$5,200.00
SD / Soft Digging	16.00	\$379.20	\$306.56	\$60.38	\$0.00	\$310.72	\$1,056.86
STAGING / Staging Materials/Equipment	16.00	\$624.16	\$17.40	\$20.37	\$0.00	\$385.28	\$1,047.21
UTLOC / Utility locates	1.00	\$24.70	\$0.00	\$0.00	\$0.00	\$13.23	\$37.93
WEED / Weedeating	16.00	\$459.20	\$17.40	\$25.80	\$0.00	\$297.68	\$800.08
Grand Total	168.00	\$5,054.21	\$1,720.62	\$4,961.42	\$5,200.00	\$2,907.06	\$19,843.31

Before

During

After

(No Picture Available)





Project: Huron Drive

Activity: Routine/
Preventive
Maintenance

Project #:
2022-516

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

Completed:
December 2021

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

Extended 20 L.F. of driveway pipe and installed rip rap for erosion control.



1 inch = 170 feet

Prepared By: BC Stormwater Management Utility
Date Print:09/16/22
File:C:\project summaries map/Huron Drive_2022-516



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: MC Riley Park

Activity: Routine/Preventive Maintenance

Duration: 11/17/2021

Narrative Description of Project:

Repaired sinkhole.

2022-518/MC Riley Park

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.50	\$16.37	\$0.00	\$0.00	\$0.00	\$10.11	\$26.48
HAUL / Hauling	8.00	\$263.09	\$152.48	\$34.00	\$0.00	\$162.40	\$611.97
SD / Soft Digging	8.00	\$261.27	\$170.68	\$51.15	\$0.00	\$161.28	\$644.38
SR / Sinkhole repair	16.00	\$520.60	\$56.27	\$38.70	\$0.00	\$337.52	\$953.09
Grand Total	32.50	\$1,061.33	\$379.43	\$123.85	\$0.00	\$671.31	\$2,235.92

Before



During



After





Project: Mc Riley Park














Activity: Routine/
Preventive
Maintenance

Project #:
2022-518

Township/SW Dist:
Bluffton/4

Completed:
November 2021

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 25 50 100 150 200
Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 09/09/22

File: C:\project summaries map\Mc Riley Park_2022-518



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Port Royal Island Bush Hog

Activity: Routine/Preventive Maintenance

Duration: 02/02/2022 - 06/30/2022

Narrative Description of Project:

Second Rotation: 02/02/2022 - 06/30/2022 Project improved 78,553 L.F. of drainage system. Bush hogged 71,836 L.F. of channel and 6,717 L.F. of roadside ditch. This project consisted of the following areas: Marina Blvd (923 L.F.), Shell Point Recreational Park (368 L.F.), Hamrick Drive (1,036 L.F.), LH Nelson Drive (5,249 L.F.), Cleveland Drive (557 L.F), St Pauls Church Road (4,880 L.F), Shanklin Road (1,245 L.F), Quarter Horse Road (954 L.F), East Coast Marina (673 L.F), Providence Road (3,754 L.F), Josphine Drive (683 L.F), Chesterfield Drive (263 L.F), Walker Circle (1,200 L.F), Broad River Blvd (2,103 L.F), County Shed Road (1,048 L.F), Ihly Farm Road (36,526 L.F), Green Leaf Road (391 L.F), Poppy Hill Road (4,839 L.F), Broad River Drive (94 L.F), Jefferson Drive (1,320 L.F), Hale Drive (3,473 L.F), Hunan Drive (250 L.F), Clydesdale Circle (3,421 L.F), Pny Avenue (230 L.F), Elderberry Road (187 L.F), Rice Road (1,482 L.F), Vaux Road (412 L.F), Donaldson Camp Road (212 L.F), and Sammie Lane (780 L.F).

2022-301A / Port Royal Island Bush Hog	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	3.00	\$98.22	\$0.00	\$0.00	\$0.00	\$60.63	\$158.85
BUSHGEN / Bush Hog - General	16.00	\$457.20	\$34.80	\$75.52	\$0.00	\$174.96	\$742.48
CBH / Channel- bushhogged	802.00	\$21,884.20	\$9,736.29	\$2,791.16	\$0.00	\$13,744.23	\$48,155.88
CCO / Channel - cleaned out	16.00	\$548.60	\$222.48	\$43.83	\$0.00	\$338.64	\$1,153.55
RDBH / Roadside ditch - bushhogged	54.00	\$1,390.60	\$700.90	\$163.48	\$0.00	\$907.85	\$3,162.83
STBY / Stand By	24.00	\$704.12	\$69.60	\$35.85	\$0.00	\$434.64	\$1,244.21
Grand Total	915.00	\$25,082.93	\$10,764.07	\$3,109.84	\$0.00	\$15,660.95	\$54,617.79

(No Pictures Available)



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Sheldon Bush Hog

Activity: Routine/Preventive Maintenance

Duration: 05/18/2021 - 09/01/2021

Narrative Description of Project:

First Rotation: 05/18/2021 - 09/01/2021 Project improved 77,028 L.F. of drainage system. Bush hogged 70,378 L.F. of channel and 6,650 L.F. of roadside ditch. This project consisted of the following areas: Mitchell Road (8,815 L.F.), Paige Point Bluff (574 L.F.), Priester Road (1,461 L.F.), Robinson Hill Road (2,216 L.F.), Johnson Road (3,232 L.F.), Sheldon Drop Off Center (641 L.F.), Archie Sumpter Road (1,520 L.F.), Cuthbert Farm Road (827 L.F.), George Williams Lane (2,826 L.F.), William Campbell Lane (1,640 L.F.), Fire Station Lane (423 L.F.), Huspah Drive (3,169 L.F.), Huspah Court S (1,348 L.F.), Huspah Court N (964 L.F.), Bailey Road (4,699 L.F.), Nix Road (1,175 L.F.), Prescott Road (2,086 L.F.), African Baptist Church Road (2,973 L.F.), Dash Road (1,216 L.F.), Horse Tail Road (1,412 L.F.), Booker T Washington Circle (1,795 L.F.), Albertha Fields Circle (8,655 L.F.), Big Estate Road 1,822 L.F., Gray Road (4,484 L.F.), Big Estate Circle (2,296 L.F.), Swallowtail Lane (2,242 L.F.), Newberry Circle (639 L.F.), Joseph Lane (1,244 L.F.), Twickenham Plantation Road (9,953 L.F.), and Jenkins Road (681 L.F.).

2022-303 / Sheldon Bush Hog

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	3.00	\$98.22	\$0.00	\$0.00	\$0.00	\$60.63	\$158.85
CBH / Channel- bushhogged	799.00	\$19,802.68	\$8,572.00	\$2,030.13	\$0.00	\$13,067.06	\$43,471.87
CCO / Channel - cleaned out	16.00	\$337.09	\$156.80	\$27.61	\$0.00	\$295.52	\$817.02
HAUL / Hauling	2.00	\$63.12	\$69.28	\$12.35	\$0.00	\$38.96	\$183.71
RDBH / Roadside ditch - bushhogged	80.00	\$2,279.02	\$875.50	\$188.06	\$0.00	\$1,477.60	\$4,820.18
Grand Total	900.00	\$22,580.12	\$9,673.58	\$2,258.15	\$0.00	\$14,939.77	\$49,451.62

Before



During



After





Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Sheldon Bush Hog

Activity: Routine/Preventive Maintenance

Duration: 09/07/2021 - 03/01/2022

Narrative Description of Project:

Second Rotation: 09/07/2021 - 03/01/2022 Project improved 87,498 L.F. of drainage system. Bush hogged 70,526 L.F. of channel and 16,972 L.F. of roadside ditch. This project consisted of the following areas: Old Dawson Acres (4,299 L.F.), Browns Island Road (3,649 L.F.), Gum Tree Lane (3,612 L.F.), Stroup Lane (1,295 L.F.), Hunt Ter (3,803 L.F.), Middlefield Circle (16,900 L.F.), Coker Lane (1,950 L.F.), Oakhurst Road (2,165 L.F.), Spann Circle (3,074 L.F.), Coakley Drive (731 L.F.), Dan Drive (817 L.F.), Honeybee Island Road (870 L.F.), Wimbee Landing Road (13,307 L.F.), Keans Neck Road (2,289 L.F.), Jasmine Hall Road (11,131 L.F.), River Oaks Road (4,398 L.F.), Horace Dawson Lane (9,213 L.F.), Mitchell Drive (402 L.F.), Dale Drop Center (898 L.F.), Albany Drive (481 L.F.), and Wimbee Creek Road (2,214 L.F.).

2022-303A / Sheldon Bush Hog	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	3.00	\$98.22	\$0.00	\$0.00	\$0.00	\$60.63	\$158.85
BUSHRD / Bushhog Roadsides	128.00	\$3,716.86	\$1,533.20	\$414.33	\$0.00	\$2,409.76	\$8,074.15
CBH / Channel- bushhogged	765.00	\$21,920.77	\$8,457.02	\$2,046.41	\$0.00	\$14,212.20	\$46,636.40
HAUL / Hauling	7.00	\$186.84	\$242.48	\$52.00	\$0.00	\$141.55	\$622.87
Grand Total	903.00	\$25,922.69	\$10,232.70	\$2,512.74	\$0.00	\$16,824.14	\$55,492.27

Before



During



After





Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Sheldon Vacuum Truck
 Keans Neck Road, Twickenham Road, Prescott Road and
 Kelly Road.

Activity: Routine/Preventive Maintenance
Duration: 10/19/2021 - 03/09/2022

Narrative Description of Project:

Project improved 16 L.F. of drainage system. Cleaned out (3) catch basins. Jetted (3) driveway pipes, (3) crossline pipes and 16 L.F. of channel pipe.

2022-308 / Sheldon Vacuum Truck

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.00	\$32.74	\$0.00	\$0.00	\$0.00	\$20.21	\$52.95
CBCO / Catch basin - clean out	10.00	\$326.59	\$191.60	\$58.00	\$0.00	\$205.80	\$781.99
CLPJT / Crossline Pipe - Jetted	18.00	\$620.51	\$344.88	\$85.41	\$0.00	\$391.64	\$1,442.44
DPJT / Driveway Pipe - Jetted	8.00	\$261.27	\$153.28	\$47.24	\$0.00	\$164.64	\$626.43
Grand Total	37.00	\$1,241.12	\$689.76	\$190.65	\$0.00	\$782.29	\$2,903.81

Before



During



After





Project: Sheldon
Vacuum Truck
Keans Neck Road
Map #1

Activity: Routine/
Preventive
Maintenance














Project
2022-308

Township/SW Dist:
Sheldon/5

Completed:
March 2022

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 25 50 100 150 200
Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 09/27/22

File: C:\project summaries map\Sheldon Vac Truck_2022-308

Project: Sheldon
Vacuum Truck
Prescott Road
Map #2

Activity: Routine/
Preventive
Maintenance

Project #:
2022-308

Township/SW Dist:
Sheldon/5

Completed:
March 2022



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 25 50 100 150 200
Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 09/27/22

File: C:\project summaries map\Sheldon Vac Truck Map 2_2022-308



Project: Sheldon Vacuum Truck Kelly Road Map #3

Activity: Routine/ Preventive Maintenance














Project #: 2022-308

Township/SW Dist: Sheldon/5

Completed: March 2022

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 = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 09/27/22

File: C:\project summaries map\Sheldon Vac Truck Map 3_2022-308



Project: Sheldon Vacuum Truck Twickenham Road Map #4

Activity: Routine/ Preventive Maintenance














Project #: 2022-308

Township/SW Dist: Sheldon/5

Completed: March 2022

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 = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 09/27/22

File: C:\project summaries map\Sheldon Vac Truck Map 4_2022-308



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Fox Island Road

Activity: Routine/Preventive Maintenance

Duration: 02/15/2022 - 02/23/2022

Narrative Description of Project:

Project improved 1,348 L.F. of drainage system. Cleaned out 1,348 L.F. of roadside ditch.

2022-542 / Fox Island Road

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.00	\$32.74	\$0.00	\$0.00	\$0.00	\$20.21	\$52.95
HAUL / Hauling	37.00	\$856.41	\$705.22	\$231.84	\$0.00	\$21.32	\$1,814.79
RSDCL / Roadside Ditch - Cleanout	96.00	\$2,248.40	\$275.84	\$199.64	\$0.00	\$1,712.00	\$4,435.88
Grand Total	134.00	\$3,137.55	\$981.06	\$431.48	\$0.00	\$1,753.53	\$6,303.62

(Before)



(During)



(After)



Project: Fox Island Road

Activity: Routine/
Preventive
Maintenance

Project #:
2022-542














Township/SW Dist:
Bluffton/4

Completed:
February 2022



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 35 70 140 210 280
Feet

1 inch = 210 feet

Prepared By: BC Stormwater Management Utility

Date Print: 09/23/22

File: C:\project summaries map\Fox Island RD_2022-542



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Westboro Road

Activity: Routine/Preventive Maintenance

Duration: 05/26/2021 - 03/01/2022

Narrative Description of Project:

Repaired a sinkhole. Replaced (1) crossline pipe. Installed rip rap for erosion control.

2021-552 / Westboro Road

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
ASI / Asphalt Installation	32.00	\$933.28	\$290.82	\$53.60	\$0.00	\$413.20	\$1,690.90
AUDIT / Audit Project	1.50	\$49.11	\$0.00	\$0.00	\$0.00	\$30.32	\$79.43
CLJS / Cleaned up jobsite	16.00	\$520.56	\$51.88	\$68.94	\$0.00	\$158.48	\$799.86
CPRPL / Crossline Pipe - Replaced	16.00	\$520.56	\$77.50	\$717.75	\$0.00	\$337.52	\$1,653.33
HAUL / Hauling	48.00	\$1,399.62	\$703.61	\$863.13	\$0.00	\$912.08	\$3,878.44
SR / Sinkhole repair	20.00	\$459.00	\$53.24	\$133.08	\$0.00	\$255.60	\$900.92
STAGING / Staging Materials/Equipment	16.00	\$460.08	\$81.44	\$39.58	\$0.00	\$202.56	\$783.66
UTLOC / Utility locates	1.00	\$24.70	\$0.00	\$0.00	\$0.00	\$13.23	\$37.93
Grand Total	150.50	\$4,366.91	\$1,258.49	\$1,876.08	\$0.00	\$2,322.99	\$9,824.47

(Before)

(During)

(After)

(No Picture Available)





Project: Westboro Rd

Activity: Routine/
Preventive
Maintenance














Project #:
2021-552

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

Completed:
March 2022

Legend

Drainage Type

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

012.525 50 75 100
Feet

1 inch = 83 feet

Prepared By: BC Stormwater Management Utility

Date Print:09/21/22

File:C:\project summaries map\Westboro Rd_2021-552



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Frazier Landing Road

Activity: Routine/Preventive Maintenance

Duration: 02/15/2022 - 02/23/2022

Narrative Description of Project:

Project improved 50 L.F. of drainage system. Cleaned out 50 L.F. of roadside ditch. Replaced (1) driveway pipe and rip rap for erosion control.

2022-549 / Frazier Landing Road

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.00	\$32.74	\$0.00	\$0.00	\$0.00	\$20.21	\$52.95
DPREIN / Driveway Pipe - Reinstalled	16.00	\$330.40	\$34.48	\$72.96	\$0.00	\$257.32	\$695.16
DPRPL / Driveway Pipe - Replaced	40.00	\$893.84	\$68.96	\$341.36	\$0.00	\$665.68	\$1,969.84
HAUL / Hauling	16.00	\$371.36	\$304.96	\$1,672.39	\$0.00	\$0.00	\$2,348.71
HEQ / Haul equipment	8.00	\$233.04	\$152.48	\$80.50	\$0.00	\$143.84	\$609.86
HMT / Haul Material	8.00	\$185.68	\$152.48	\$74.06	\$0.00	\$0.00	\$412.22
RRI / Rip Rap - Installed	8.00	\$274.88	\$68.96	\$0.00	\$0.00	\$169.68	\$513.52
Grand Total	97.00	\$2,321.94	\$782.32	\$2,241.27	\$0.00	\$1,256.73	\$6,602.26

(Before)



(During)



(After)





Project: Frazier
Landing Road

Activity: Routine/
Preventive
Maintenance

Project #:
2022-549

Township/SW Dist:
Sheldon/5

Completed:
March 2022

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 25 50 100 150 200
Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 09/23/22

File: C:\project summaries map\Frazier Landing RD_2022-549



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Ned Court

Activity: Routine/Preventive Maintenance

Duration: 01/21/2022 - 03/03/2022

Narrative Description of Project:

Project improved 417 L.F. of drainage system. Cleaned out 377 L.F. of roadside ditch. Cleaned out (2) catch basins, jetted (3) driveway pipes, (1) crossline pipe and 40 L.F. of channel pipe.

2022-539 / Ned Court

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.50	\$17.27	\$0.00	\$0.00	\$0.00	\$10.66	\$27.93
CBCO / Catch basin - clean out	8.00	\$261.27	\$153.28	\$77.12	\$0.00	\$164.64	\$656.31
DPJT / Driveway Pipe - Jetted	16.00	\$522.55	\$306.56	\$168.60	\$0.00	\$329.28	\$1,326.99
HAUL / Hauling	12.00	\$394.63	\$228.72	\$106.26	\$0.00	\$243.60	\$973.21
RSDCL / Roadside Ditch - Cleanout	20.00	\$648.92	\$159.55	\$163.04	\$0.00	\$237.72	\$1,209.23
UTLOC / Utility locates	0.50	\$12.35	\$0.00	\$0.00	\$0.00	\$6.62	\$18.97
Grand Total	57.00	\$1,857.00	\$848.11	\$515.02	\$0.00	\$992.52	\$4,212.64

(Before)



(During)



(After)





Project: Ned Court
Map #1

Activity: Routine/
Preventive
Maintenance














Project #:
2022-539

Township/SW Dist:
Bluffton/4

Completed:
March 2022

Legend

Drainage Type

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

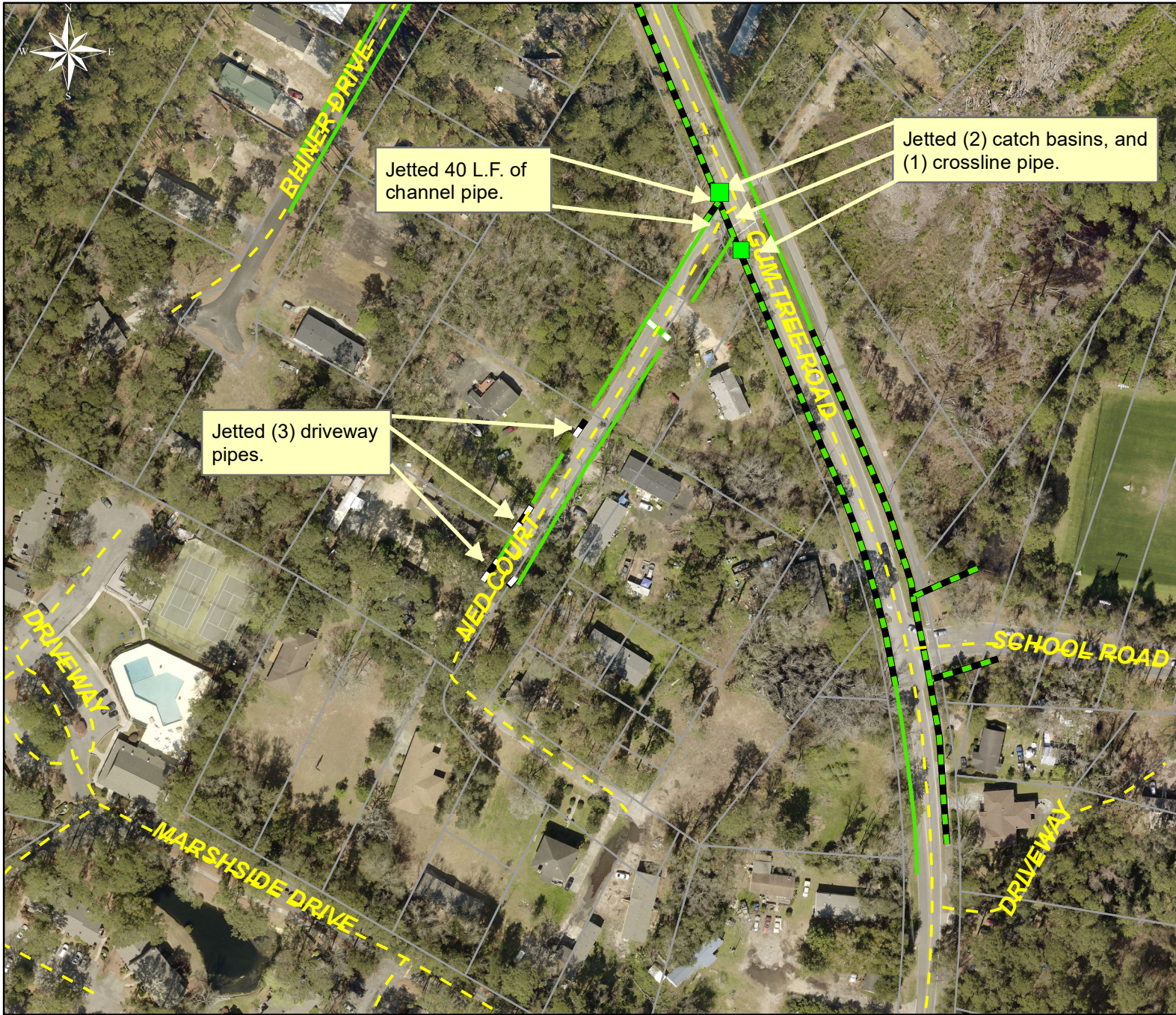


1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 09/22/22

File: C:\project summaries map\Ned Court Map#1_2022-539



Project: Ned Court
Map #2

Activity: Routine/
Preventive
Maintenance








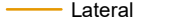





Project #:
2022-539

Township/SW Dist:
Bluffton/4

Completed:
March 2022

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 = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 09/22/22

File: C:\project summaries map\Ned Court Map#2 _2022-539



Beaufort County Public Works
Stormwater Infrastructure
 Project Summary

Project Summary: ToHHI Vacuum Truck
 New Orleans Road, Bay Pines Drive, Hilton Head High School and Circlewood Drive.

Activity: Routine/Preventive Maintenance
Duration: 08/19/2021 - 11/17/2021

Narrative Description of Project:

Project improved 514 L.F. of drainage system. Cleaned out (2) catch basins. Jetted (1) driveway pipe, (4) crossline pipes, 174 L.F. of channel pipe and 320 L.F. of roadside pipe. Cleaned out and jetted 20 L.F. of trough.

2022-311 / ToHHI Vacuum Truck	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.00	\$32.74	\$0.00	\$0.00	\$0.00	\$20.21	\$52.95
CBCO / Catch basin - clean out	0.00	\$522.55	\$323.96	\$118.14	\$0.00	\$329.28	\$1,293.93
CLPJT / Crossline Pipe - Jetted	0.00	\$1,306.37	\$818.60	\$339.53	\$0.00	\$819.84	\$3,284.34
RSPJ / Roadside Pipe - Jetted	0.00	\$522.55	\$306.56	\$72.00	\$0.00	\$329.28	\$1,230.39
TROF / TROUGH	0.00	\$533.43	\$306.56	\$83.40	\$0.00	\$329.28	\$1,252.67
Grand Total	0.00	\$2,917.63	\$1,755.68	\$613.07	\$0.00	\$1,827.89	\$7,114.27

Before



During



After

(No Picture Available)



Project: ToHHI
 Vacuum Truck
 Hilton Head High School
 Map #1

Activity: Routine/
 Preventive Maintenance

Project #:
 2022-311

Township/SW Dist:
 Hilton Head Island/3

Completed:
 November 2021

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 35 70 140 210 280
 Feet

1 inch = 210 feet

Prepared By: BC Stormwater Management Utility

Date Print: 10/05/22

File: C:\project summaries map\Hilton Head Island Vac Truck Map#1_2022-311



Project: ToHHI
Vacuum Truck
Bay Pines Drive
Map #2

Activity: Routine/
Preventive
Maintenance














Project #:
2022-311

Township/SW Dist:
Hilton Head Island/3

Completed:
November 2021

Legend

Drainage Type

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



1 inch = 210 feet

Prepared By: BC Stormwater Management Utility

Date Print: 10/05/22

File: C:\project summaries map\Hilton Head Island Vac Truck Map#2_2022-311



Project: ToHHI
Vacuum Truck
Circlewood Drive
Map #3














Activity: Routine/
Preventive
Maintenance

Project #:
2022-311

Township/SW Dist:
Hilton Head Island/3

Completed:
November 2021

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: 10/05/22

File: C:\project summaries map\Hilton Head Island Vac Truck Map#3_2022-311



Project: ToHHI
Vacuum Truck
Circlewood Drive
Map #4

Activity: Routine/
Preventive
Maintenance














Project #:
2022-311

Township/SW Dist:
Hilton Head Island/3

Completed:
November 2021

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: 10/05/22

File: C:\project summaries map\Hilton Head Island Vac Truck Map#4_2022-311



Project: ToHHI
 Vacuum Truck
 Circlewood Drive
 Map #5

Activity: Routine/
 Preventive
 Maintenance














Project #:
 2022-311

Township/SW Dist:
 Hilton Head Island/3

Completed:
 November 2021

Legend

Drainage Type

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

Jetted (1) crossline pipe.



1 inch = 130 feet

Prepared By: BC Stormwater Management Utility

Date Print: 10/05/22

File: C:\project summaries map\Hilton Head Island Vac Truck Map#5_2022-311



Project: ToHHI
 Vacuum Truck
 New Orleans Road
 Map #6

Activity: Routine/
 Preventive
 Maintenance

Project #:
 2022-311

Township/SW Dist:
 Hilton Head Island/3

Completed:
 November 2021

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 25 50 100 150 200
 Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 10/05/22

File: C:\project summaries map\Hilton Head Island Vac Truck Map^_2022-311



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Lady's Island Airport Bush Hog

Activity: Routine/Preventive Maintenance

Duration: 04/05/2022 - 05/05/2022

Narrative Description of Project:

First Rotation: 04/05/2022 - 05/05/2022. Project improved 34,622 L.F. of drainage system. Bush hogged 34,622 L.F. of channel. This project consisted of the following areas: Airport Circle (34,622 L.F.)

2022-552/ Lady's Island Airport Bush Hog	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.00	\$32.74	\$0.00	\$0.00	\$0.00	\$20.21	\$52.95
CBH / Channel- bushhogged	224.00	\$7,029.99	\$1,583.41	\$1,093.62	\$0.00	\$4,427.36	\$14,134.38
Grand Total	225.00	\$7,062.73	\$1,583.41	\$1,093.62	\$0.00	\$4,447.57	\$14,187.33

Before

During

After



(No Picture Available)



TOWN COUNCIL

STAFF REPORT

Projects and Watershed Resilience Department



MEETING DATE:	October 11, 2022
SUBJECT:	Projects and Watershed Resilience Department Monthly Report
PROJECT MANAGER:	Kimberly Washok-Jones, Director of Projects and Watershed Resilience

CAPITAL IMPROVEMENTS PROGRAM (CIP) AND SPECIAL PROJECTS UPDATE

PATHWAYS

1. Goethe-Shults Sidewalks Phase 2

- Notice to Proceed with construction was issued 7/1/2021.
- Construction of sidewalks is complete.
- **Next Steps**
 - Complete as-built drawings and request SCDOT inspection.
 - Obtain survey information regarding outfall along Shults Road.

2. Buck Island-Simmons ville Neighborhood Sidewalks and Lighting

- Phase 5 street lighting easement acquisition process is underway. One light in Palmetto Electric's service area has been mounted on an existing pole.
- Phase 6A along Simmons ville Road from Grayco northward to Sugaree Drive waiting on DOT closeout.
- Phase 6B along Simmons ville Road from Sugaree Drive northward to the existing New Mustang Road: Engineering design for this final sidewalk phase has been submitted for permitting.
- **Next Steps**
 - Prepare and obtain streetlight easements and install lighting for Phase 5.
 - Obtain SCDOT Permit Closeout for Phase 6A sidewalks.
 - Complete Phase 6B design and permitting.
 - Construction of the remaining Simmons ville Road sidewalks and lighting to be completed in FY 2023.

3. New River Linear Trail

- Conceptual Master Plan is complete.
- Executed PO with Barrier Island Engineering for Phase 1 Engineering Design.
- Prepared Draft PARD application for a restroom facility at the New River Trail Park. Submitted request to Bill Herbkersman to solicit support from the Beaufort County Delegation.

- **Next Steps**
 - Continue engineering design for Phase 1 pathway (New River to Hwy 46).
 - Research grant opportunities to fund planning and construction of future trail improvements.
 - Continue restroom facility design and associated utility extension at the New River Trail Parking lot. Submit PARD Grant to SCPRT upon receipt of Beaufort County Delegation support.
 - Submit plans to Santee Cooper for cursory review and cost share for bridge replacements.
 - Begin discussions with Heritage at New Riverside for easement required for encroachments near the Hwy 46 overpass.

SEWER & STORMWATER

1. Buck Island-Simmons ville Sewer (Phases 5A-5D)

- Construction has been halted on Phases 5A-D by BJWSA due to the contractor under-performing their job duties. Engineer has started closeout phase for what has been installed to date.
- The engineer has provided BJWSA construction documentation to complete the project.
- **Next Steps**
 - Readvertise for bids in October to complete construction on Phase 5A-D.
 - Start house connections after the main line is approved by SCDHEC.

2. Historic District Sewer Extension Phase 2 - Bridge Street

- Received SCDHEC permit to construct for original scope.
- No contractors responded to the first construction solicitation. Working on a redesign option to avoid extremely long bore.
- Received Quit Claim Deeds from all the property owners along the ghost road.
- Obtained road ownership from SCDOT.
- **Next Steps**
 - Readvertise project for bid in conjunction with Historic District Sewer Extension Phase 3.

3. Historic District Sewer Extension Phases 3 through 6 – Colcock, Lawrence, Green and Water Streets

- Received initial design for Phases 4, 5, & 6 and reviewed with the engineer.
- Submitted Phase 3 for permitting to be bid with Phase 2.
- **Next Step**
 - Review Phases 4, 5, & 6 design changes to drawings.
 - Obtain Quit Claim Deeds from all the property owners along the ghost roads.

4. **May River Watershed Action Plan Impervious Restoration Water Quality Projects**

- Initial Work under FY 2022 Watershed funding initiated with Goodwyn, Mills & Cawood.
- Met with School Board to discuss Impervious Restoration Program and potential work elements for 6 identified School sites.
- Initial site investigations have been completed at Bluffton Early Learning Center, Bluffton High School, McCracken Middle School/Bluffton Elementary School, May River High School and Pritchardville Elementary School.
- Initial site investigations are pending due to ongoing Property Owner coordination and approval to access the Property for investigations at Boys and Girls Club of Bluffton, Benton House, Buckwalter Recreation Center, Lowcountry Community Church, One Hampton Lake Apartments and Palmetto Pointe Townes.
- Policy document for Impervious Restoration Program and Developer Participation Projects under formulation.
- **Next Steps**
 - Continue property coordination for site access and site assessments/evaluations.
 - Review Policy Document of similar intent nationwide.

5. **Buck Island Drainage Improvements**

- Solicitation for Buck Island Drainage Improvements (re-bid) has been issued and Bids received on 8/22/22. One Bid received that exceeded Engineer's estimate and value engineering/negotiations with vendor will be held.
- **Next Steps**
 - Meetings and negotiations with JS Construction on-going and unknown at this point if agreement for contract award can be reached.

HISTORIC DISTRICT IMPROVEMENTS

1. **Boundary Street Lighting**

- Phase 2 photometric plans, encroachment permits and lighting agreements are complete and approved.
- SCDOT and Dominion indicated poles must be installed on private property due to conflicts with sewer force main and communication utilities within the right of way. Easements must now be obtained to install Phase 2 lighting.
- **Next Steps**
 - Coordinate conduit light installation in conjunction with streetscape design.
 - Obtain easements as needed for Phase 2 street lighting.

2. **Squire Pope Carriage House Preservation**

- ATAX funding was approved in March 2022.
- Stabilization has been completed.
- Solicitation 2023-19 posted 8/11/22.
- Submittal of Proposals were due 9/23/22 and exceeded budget. Working with Finance to budget the gap with HTAX. Staff submitting for State HTAX funds on 9/30.

- **Next Steps**
 - Procure General Contractor for Rehabilitation.
 - Present Rehabilitation contract for approval in October, subject to bids within budget.
- 3. Bridge Street Streetscape**
- Signed Contract for Construction of Phase 1 Site Development on 6/20/22.
 - Issued Notice to Proceed for Phase 1 construction to include ordering of inlets and pipe (10-12 weeks to ship) and stakeout/subsurface investigation to determine potential utility conflicts with proposed stormwater construction.
 - Began utility conflict assessment.
 - **Next Steps**
 - Upon receipt of inlets and pipe, issue Phase 2 Notice to Proceed for the remaining streetscape construction. Expected start date of Phase 2 is October 2022.
- 4. Boundary Street Streetscape**
- Surveying is complete and engineering design is underway.
 - Engineering Design is 45% complete.
 - **Next Steps**
 - Continue with Engineering Design and Permitting.
- 5. Calhoun Street Streetscape**
- Surveying is complete and engineering design underway. Met with Engineers to obtain new project schedule to expedite progress
 - Preliminary evaluation and recommendations for existing storm outfall pipes are complete.
 - Engineers provided alternative street sections for Staff review and comment
 - **Next Steps**
 - Continue engineering design into FY 2023.
 - Easement acquisition for Phase 1 is planned to begin in January 2023.
 - Phased construction is planned to begin in FY 2024-2025 pending budget approval.
- 6. Historic District Streetscape and Drainage Improvements**
- Construction of AME Rain Garden is substantially complete. Contract award to Southern Palmetto Landscapes, Inc. has been completed, Notice to Proceed issued and work expected to begin late September 2022.
 - Completed Historic District crosswalk study identifying and prioritizing future intersection/crosswalk improvements to meet ADA compliance.
 - Executed contract for engineering design services for the first phase of intersection/crosswalk ADA improvements.

- **Next Steps**
 - Complete construction of Landscaping work.
 - Finalize ADA crosswalk easements.
 - Prepare ADA crosswalk RFP for bid.
 - Prepare easement donation approval documents for November Town Council

7. **Historic District Comprehensive Drainage Plan Improvements**

- Scope of work, fee and Task Authorization issued to J Bragg Consulting to begin work in Heyward Cove watershed.
- Kick-off meeting held 7/15/22.
- Information gathered related to GIS, Cartograph, development plans etc. complete. Phase 1 asset inventory and condition assessment completed.
- Review of Phase 1 asset inventory and condition assessment information is complete.
- **Next Steps**
 - Identify and resolve drainage asset information that was not able to be gathered due to in-accessible conditions.
 - Begin work on 2D H/H model development.

8. **Pritchard Street Drainage Improvements**

- Cranston Engineering completed 30% design submission and updating 70% design plan information.
- Final paperwork submissions submitted to DHEC for 319 Grant funding. 319 Grant Award pending.
- Barrier Island Engineering performing completed 3rd party evaluation of drainage claims and complaints associated with 40 Pritchard Street.
- Emergency procurement for construction of interim solution approved. Interim solution being addressed by Atlantic Asphalt.
- **Next Steps**
 - Receive and review Cranston 70% design submittal.
 - Construct interim drainage solution.

PARK DEVELOPMENT

1. **Oyster Factory Park**

- Completed engineering and landscape design of eastern parking area.
- Received undiscovered grant in March for Phase 3 signage at Garvin/Garvey.
- Received Bids for Parking Improvement Area.
- **Next Steps**
 - Obtain final permits and begin construction of parking area in November 2022.
 - Design of Phase 3 signage for Garvin/Garvey house underway. Signage and exhibits to be complete in November 2022.
 - Begin design of Oyster Factory Park cookout area in FY 2023.

2. Wright Family Park

- Completed installations of the palmetto logs, planters and interpretive signage.
- **Next Steps**
 - Monitor erosion problems west of the dock and determine mitigation.
 - Install additional swing.

3. Oscar Frazier Park

- FY 2022 Improvements complete.
- Requested Proposals from Witmer, Jones, Keefer for design of FY 2023 improvements including hardscape near the Rotary Center, Tennis or Pickleball Courts and Splash Pad.
- **Next Steps**
 - Continue landscape maintenance of FOD through November 2022.
 - Begin planning and design of FY 2023 improvements and submit progress plans at the October Town Council Workshop.

4. New Riverside Barn/Park

- A \$500,000.00 grant was approved for partial funding of the initial phase of the project.
- Engineering design of Phase 1 site plans are complete and moving forward with approvals and permitting.
- Construction documents for the restroom building are complete.
- Executed contract for architectural design services for the Barn additions.
- Posted bid solicitation for Phase 1 site development on 8/25/22.
- Obtained Town Council approval of the design services for the Playground area
- **Next Steps**
 - Present Phase 1 Site Development contract for approval in October, subject to bids within budget parameters.
 - Continue architectural design of barn addition.
 - Begin design of playground area in October 2022.

5. May River Road Pocket Park

- Received 100% Construction Documents on 4/6/22.
- Received Public Project approval.
- Bid received 4/28/22.
- Construction started in June and scheduled for completion in September.
- Site furnishings have been ordered.
- **Next Steps**
 - Install site furnishings end of September.
 - Complete construction.
 - Ribbon cutting on 10/11/22.

6. Miscellaneous Park Improvements

- Begin design and cost estimating of playground improvements at DuBois Park.
- **Next Steps**
 - Present proposed DuBois Park playground improvements at the October Workshop.
 - Complete design of FY 2023 improvements at DuBois Park.

TOWN FACILITIES AND MISCELLANEOUS PLANNING**1. Rotary Community Center Facility Improvements**

- Completed floor replacement in August 2022.

2. Buckwalter Place Park Restroom

- Design for the Buckwalter Park restroom is complete.
- **Next Steps**
 - Project on hold based on restroom availability at adjacent Evicore site.

3. 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.

4. Law Enforcement Center Facility Improvements

- Initial scope of work of the parking/service yard, and covered sheds are complete.
- Design for the challenge course and reflection plaza are complete.
- Reflection Plaza construction is underway.
- **Next Steps**
 - Punch list and BJWSA closeout documents complete.
 - Information Technology department coordinating upgrades to building security systems.
 - Obtain final quotes and bid site development for challenge course.

5. Sarah Riley Hooks Cottage

- Requested proposal from JK Tiller for Master Planning Services
- **Next Steps**
 - Begin Master Plan and obtain public input for potential uses of cottage building and park.

6. Ghost Roads

- Surveying and easement exhibits are complete.
- Bridge Street Quit Claim Deeds are complete. Pritchard and Colcock Streets Quit Claim Deeds are 95% complete. Staff is currently working with Lawrence, Lawton, Green Pope, Allen and Water Street property owners to obtain Quit Claim Deeds.

- Staff continues to meet with property owners to raise awareness of the acquisition efforts and communicate next steps.
 - **Next Steps**
 - Continue meeting with property owners and obtaining Quit Claim Deeds.
- 7. Public Services Facility Improvements**
- Installation of new plumbing and electric for the washer and dryer has been completed.
 - Fencing, flooring, canopies and HVAC replacement has been completed.
- 8. Document Management**
- RFP contract was awarded in March 2022.
 - Electronic Document Management system is live.
 - **Next Steps:**
 - Historical documents will be moved into the system in July and continue through FY 2024.
- 6. Network Infrastructure**
- Replaced core switches at Town Hall and the Law Enforcement Center.
 - Replaced two VMWare hosts for a more stable server environment.
 - **Next Steps:**
 - Replace phone system to a more modern system.
 - Replacing two more VMWare hosts.
 - Migrate Munis and Energov systems to a hosted environment.

Watershed Management

- 1. Sea Level Rise Task Force**
- Following Beaufort County's presentation and request for regional participation at the 10/22/19 SoLoCo meeting, staff attended the Sea Level Rise Task Force meetings to discuss a possible No Fill Ordinance, a Coastal Resilience Overlay District, and county-wide sea level rise adaptation strategies.
 - Information provided to Town Comprehensive Plan Update consultant team for inclusion in the state-required resiliency component. Town Comprehensive Plan Open House and Town Council Workshop were held 4/19/22.
 - **Next Steps**
 - Adoption of Comprehensive Plan Update by Town Council with new Resiliency chapter; anticipated November 2022.
- 2. Joint Councils Meeting for Watershed Management Initiatives**
- Staff from the Town, County, and BJWSA met via Zoom 3/27/20 to confirm project scope, cost, and potential project manager. The last project cost estimate to extend, connect, and abandon septic in the Stoney Creek project area is \$4.7 million (B. Chemsak email 7/22/19) but they anticipate those numbers increasing to \$5.5 million. The proposal is one-third cost-share, so the Town's portion would be

approximately \$1.83 million. Beaufort County has not formally agreed or committed any funding.

- Staff has shared preliminary project scope with Beaufort County and BJWSA to begin partnership discussion.
- Letter of support received from Beaufort County.
- Updated cost-estimate for the project from BJWSA are \$7.2 million + contingencies.
- Completed DRAFT RIA SCIPP application in support of Stoney Creek/Palmetto Bluff Sewer Extension with BJWSA and Beaufort County. Obtained letters from governmental agencies and stakeholders in support of the application.
- **Next Steps**
 - Develop a 3-party partnership to execute the project.

3. 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

4. May River Watershed Action Plan Implementation Summary - Attachment 2

- 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 collected sixty-six (66) water quality samples from the Model Report study area and the Bluffton Historic District on 9/06/22 and 09/07/22.
- Staff is working with Water Environmental Consultants (WEC) to determine what monitoring sites are most critical due the length of time flow data collection requires.
- WEC assisted Town staff with the appropriate specifications for SonTek IQ Telemetry Stations that will enable real-time continuous flow data. Xylem needed additional specifications regarding the telemetry stations. WEC has provided those specifications and staff continues to work towards procuring these systems.
- Staff is working with the USCB-MST Laboratory to assess the utility of fecal markers in regional watersheds, including the May River watershed as recommended in the 2020 May River Watershed Action Plan Update and Model Report.

5. Municipal Separate Storm Sewer System (MS4) Program Update

- SCDHEC is currently in the process of developing a revised National Pollutant Discharge and Elimination (NPDES) Permit for Small MS4s and will re-issue to permittees, including the Town, in the future.

6. 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 meeting is scheduled for 9/22/22. **Attachment 3**
- Staff successfully held the Town of Bluffton's Beach Sweep/River Sweep on 09/17/22. Approximately 185 volunteers attended the event.

7. **MS4 MCM – #3 Illicit Discharge Detection and Elimination**
 - Stormwater Infrastructure Inventory Map - **Attachment 4a**
 - *E. coli* Concentrations Trend Map - **Attachment 4b**
 - Monthly, Microbial Source Tracking (MST) Maps - **Attachments 4c and 4d**
 - Town staff coordinates with the SC Department of Health and Environmental Control (SCDHEC) to pull MST samples concurrently with the state’s routine shellfish harvesting water quality sampling at stations 19-19, 19-19A, 19-19B, 19-19C, and 19-24. SCDHEC conducted sampling 9/06/22. Staff collected nine (9) additional MST samples from drainages leading to the May River due to the amount of rainfall received prior to scheduled sampling. The human genetic marker was detected at SCDHEC Shellfish Station 19-19C and four (4) Town monitoring locations. Staff notified pertinent parties via email and conducted follow-up surface effluent septic tank inspections on 09/13/22. No active septic tank failures were identified at the time of inspections.
 - Illicit Discharge Investigations – **Attachment 4e**
8. **MS4 MCM – #4 Construction Site Stormwater Runoff Control – Attachment 5**
9. **MS4 MCM – #5 Stormwater Plan Review and Related Activity – Attachment 6**
10. **MS4 MCM – #6 Good Housekeeping (Staff Training/Education)**
 - Staff conducted two (2) inspections of Town owned and/or operated facilities.**MS4 MCM – #6 Good Housekeeping (Ditch, Drainage and Roadside Maintenance)**
 - Public Services, in coordination with Beaufort County Public Works, pumped out three (3) of the five (5) stormceptors along May River Rd. to ensure proper functioning. Of the remaining two (2) stormceptors, one (1) was pumped out by Degler Waste Services and the other was deemed not to require 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**
 - The Town of Bluffton has received ~11.78 inches of rainfall from 08/16/22-09/16/22.
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. 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 Project Schedules

* Attachment noted above includes the latest updates in **bold** and *italic* font.

	19-19				19-19A				19-19B				19-19C				19-24				19-16			
	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022
	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	170.0	17.0	79.0		33.0	22.0	49.0		140.0	17.0	4.5		33.0	4.5	17.0		13.0	4.0	6.8		110.0	11.0	7.8	
November	17.0	70.0	33.0		6.8	31.0	33.0		7.8	17.0	7.8		11.0	13.0	4.0		4.5	13.0	4.5		2.0	4.5	2.0	
October	7.8	49.0	49.0		4.5	79.0	26.0		2.0	31.0	13.0		4.5	21.0	23.0		1.8	33.0	23.0		2.0	79.0	17.0	
September	79.0	110.0	33.0	540.0	33.0	49.0	11.0	350.0	6.8	49.0	17.0	350.0	17.0	33.0	13.0	170.0	4.5	33.0	2.0	79.0	1.8	33.0	11.0	33.0
August	70.0	49.0	49.0	23.0	49.0	49.0	49.0	23.0	33.0	23.0	23.0	11.0	22.0	23.0	49.0	13.0	7.8	17.0	14.0	17.0	17.0	22.0	14.0	11.0
July	4.5	33.0	350.0	920.0	13.0	13.0	64.0	49.0	7.8	23.0	79.0	95.0	17.0	7.8	33.0	130.0	22.0	7.8	33.0	23.0	13.0	17.0	13.0	46.0
June	33.0	NS	49.0	13.0	49.0	NS	79.0	4.5	49.0	NS	13.0	11.0	46.0	NS	17.0	2.0	13.0	NS	22.0	1.8	4.5	NS	2.0	9.3
May	7.8	70.0	2.0	4.5	9.2	49.0	49.0	4.5	7.8	23.0	23.0	4.0	2.0	22.0	23.0	1.8	6.8	6.8	23.0	1.8	4.5	4.5	7.8	2.0
April	23.0	33.0	33.0	4.5	13.0	33.0	23.0	4.5	7.8	13.0	22.0	1.8	6.8	6.8	17.0	2.0	23.0	13.0	7.8	1.8	6.8	13.0	2.0	1.8
March	23.0	170.0	33.0	33.0	23.0	49.0	11.0	23.0	6.8	130.0	17.0	2.0	13.0	49.0	13.0	4.5	7.8	70.0	2.0	2.0	4.5	33.0	2.0	2.0
February	64.0	17.0	79.0	23.0	33.0	7.8	70.0	31.0	23.0	21.0	79.0	17.0	31.0	4.5	23.0	22.0	6.8	4.5	7.8	2.0	13.0	6.8	6.8	11.0
January	23.0	95.0	17.0	49.0	23.0	33.0	17.0	22.0	13.0	33.0	13.0	33.0	33.0	17.0	23.0	7.8	7.8	17.0	17.0	7.8	23.0	17.0	7.8	7.8
** Truncated GeoMetric Mean	35.0	34.0	36.0	41.0	23.0	21.0	26.0	28.0	16.0	16.0	18.0	19.0	14.0	12.0	15.0	13.0	10.0	10.0	10.0	10.0	7.0	9.0	8.0	8.0
** Truncated 90th Percentile	168.0	106.0	139.0	211.0	89.0	59.0	69.0	94.0	63.0	50.0	58.0	79.0	52.0	37.0	39.0	53.0	38.0	31.0	35.0	45.0	32.0	35.0	33.0	33.0

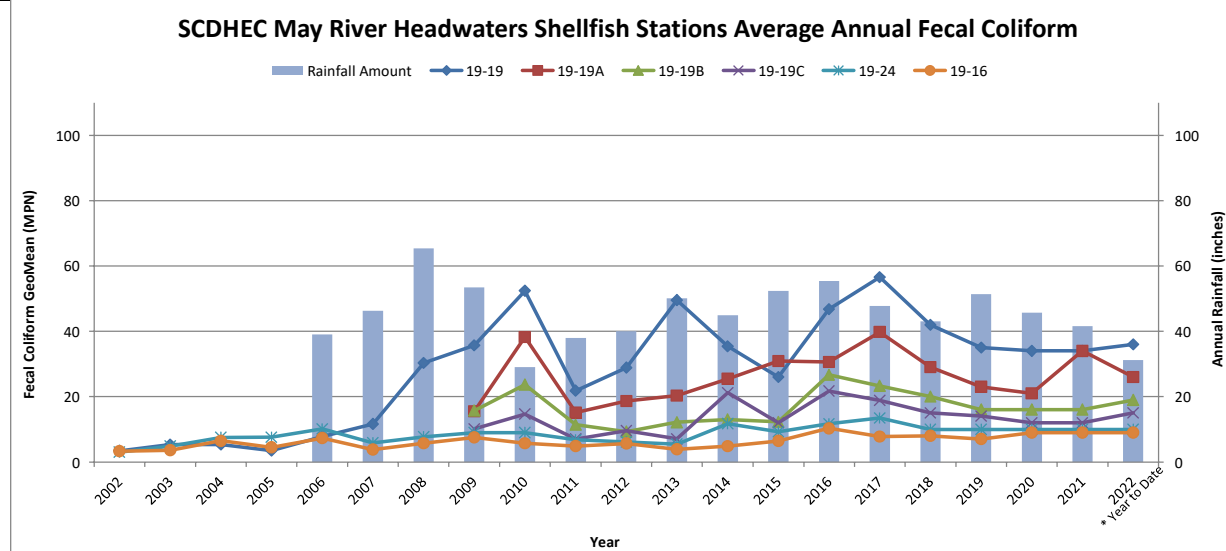
NS = No Sample

SCDHEC Regulatory Requirements:

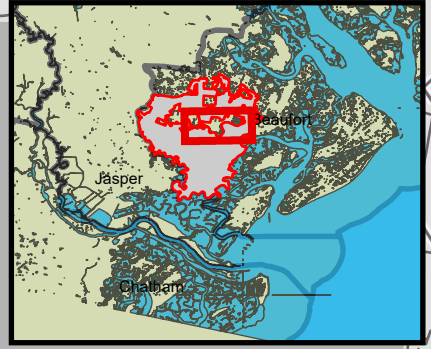
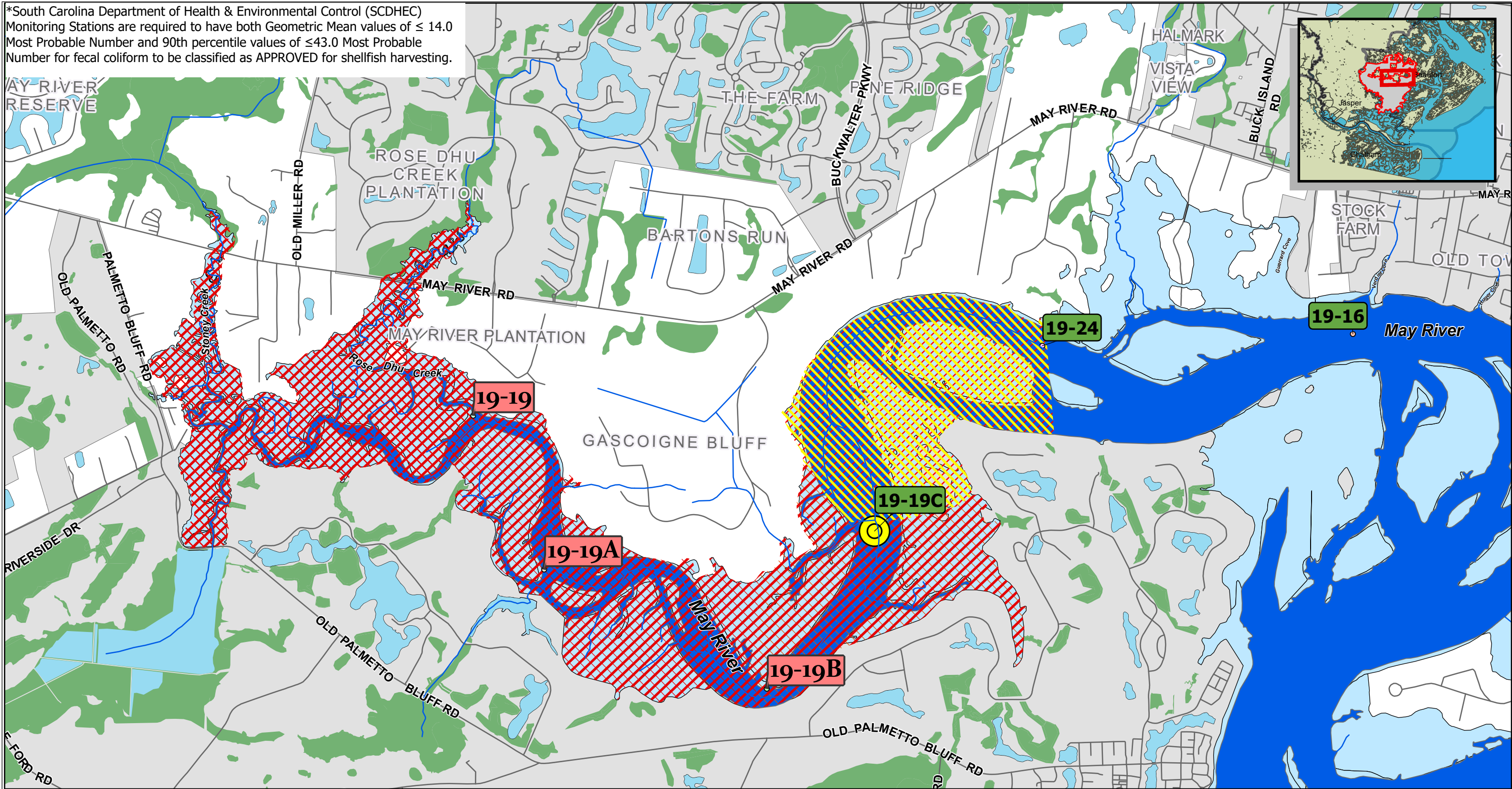
Geometric Mean ≤ 14

90th Percentile ≤ 43

** Town staff calculations utilizing SCDHEC statistics



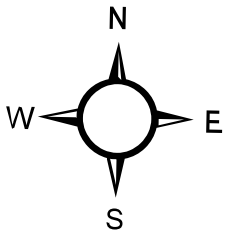
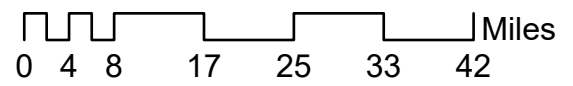
*South Carolina Department of Health & Environmental Control (SCDHEC) Monitoring Stations are required to have both Geometric Mean values of ≤ 14.0 Most Probable Number and 90th percentile values of ≤ 43.0 Most Probable Number for fecal coliform to be classified as APPROVED for shellfish harvesting.



- | | |
|---|---------------------|
| Closed SCDHEC Shellfish Monitoring Stations | Streets |
| Open SCDHEC Shellfish Monitoring Stations | Drainage |
| SCDHEC Shellfish Monitoring Station Classification Change | Town Jurisdiction |
| Restricted 2021/2022 Shellfish Season | County Jurisdiction |
| Re-Opened 2021/2022 Shellfish Season | Water |
| | Wetlands |

Town of Bluffton
Beaufort County, SC

SCDHEC SHELLFISH HARVESTING STATUS



WAPAC Meeting Presentation

2020 May River Watershed Action Plan Update & Modeling Report Overview and Status

Overview

- May River Watershed Action Plan Update (MRWAP) & Modeling Report **completed** November 2020.
- Bluffton Town Council Adoption of May River Watershed Action Plan Update & Modeling Report 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 the 2011 May River Watershed Action Plan (henceforth 2011 Action Plan) Best Management Practices (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 model and the model outputs. This highly technical information is necessary for future Water Quality Model (henceforth WQ Model) calibration and use for consistency.
 - **5.0 Recommendations** includes strategies to improve the Town’s
 - Water quality monitoring efforts in order to calibrate the WQ Model further (§5.1),
 - Develop strategies and BMPs for fecal coliform bacteria reduction (§5.2),
 - Conduct an evaluation of 2011 Action Plan BMP projects (§5.3),
 - Methodology used to develop 2020 MRWAP 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.

2020 MRWAP 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 subwatershed and 11 in Rose Dhu Creek subwatershed. Based on WQ Model outputs, these projects alone may potentially reduce the fecal coliform (FC) loading by 3.46×10^{13} FC per year.
- The estimated septic to sewer conversion costs of these projects is \$5.5 million.

Work Performed and Current Status

Discussions with the Town of Bluffton, Beaufort County and Beaufort Jasper Water Sewer Authority (BJWSA) have been held about future Septic to Sewer Program projects identified above. The Stoney Creek subwatershed Septic to Sewer Project has been identified as the next priority project to pursue under the Septic to Sewer Program.

1. The Town and Beaufort County are finalizing Funding and Cost share elements relative to the project and a letter to BJWSA will be developed and sent to BJWSA regarding project funding, capital outlay and schedule for implementation.

2020 MRWAP Update Eleven Impervious Restoration (stormwater retrofit) Project Recommendations/Evaluations and Other Work:

- 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 were identified in the Rose Dhu Creek (6 projects) and Stoney Creek (5 projects) subwatersheds:

- 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
 - 2.99×10^{14} FC reduction for the Full Stormwater Retention Volume (SWRv) (entire sub-basin drainage area catchment).
 - 2.53×10^{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:

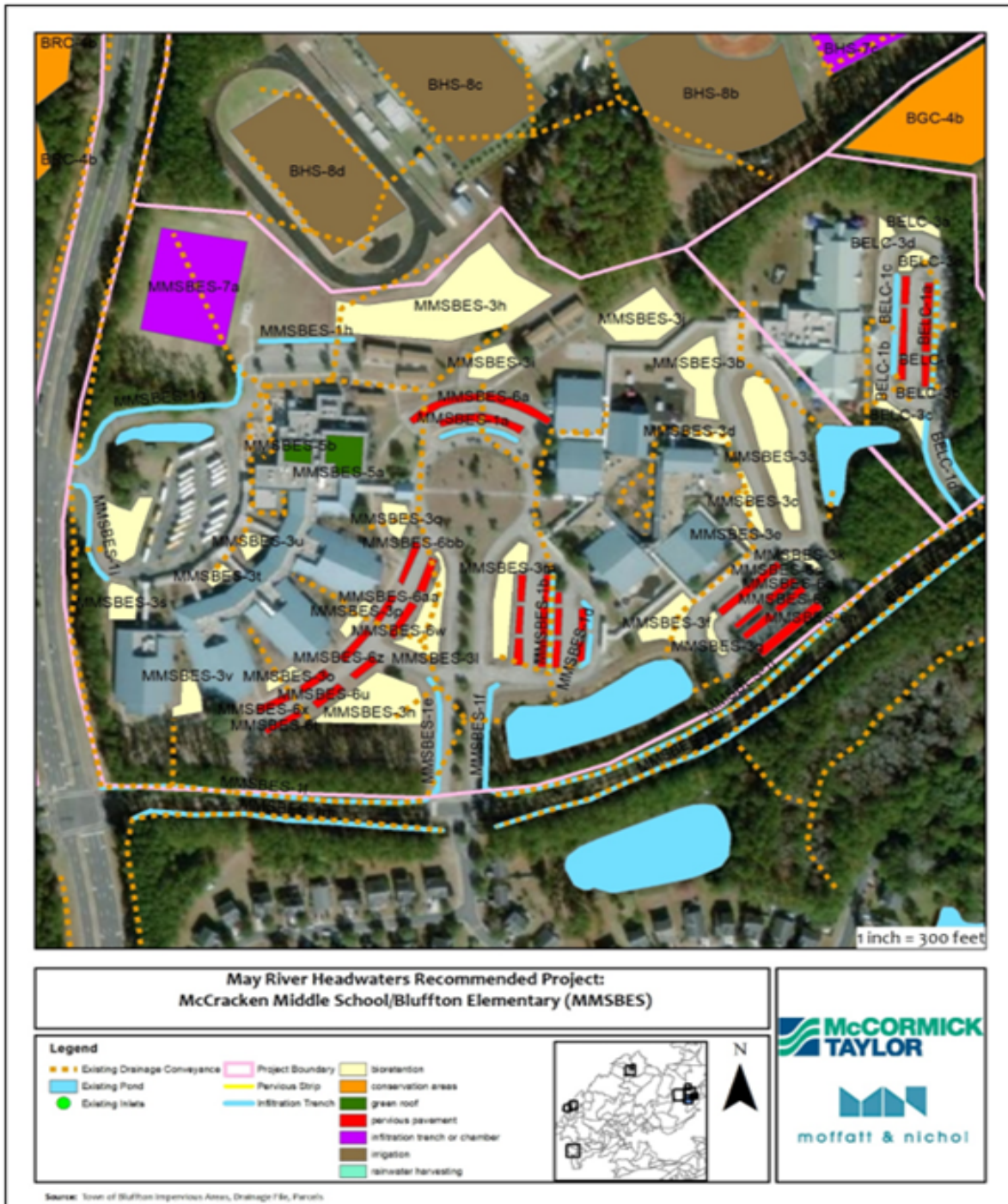


Figure 52. McCracken Middle School/Bluffton Elementary School Proposed Stormwater BMP Retrofits

Work to be Performed

- Drafted a detailed scope of work for Engineering Consultant Firm review and cost proposal (Expression of Interest) regarding performance of the following work elements related to 2020 MRWAP Update recommendations for implementation:

Task 1: 2020 MRWAP Update eleven (11) site locations

- Evaluate eleven (11) sites and proposed BMPs.
- Update concept plans for the eleven (11) sites based on site evaluations, recommendations, and discussions.
- Perform geotechnical evaluations (augers and borings to evaluate existing soil type, infiltration rates and groundwater table elevation) at each site at locations related to BMP locations and develop updated concept plans for each site.
- Refine updated concept plans and use for presentations to Property Owner to discuss Impervious Restoration Program goals, objectives and gain support for Program and their participation.
 - 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/Water Quality (WQ) treatment in cost effective approach.
 - 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 Impervious Restoration Program details (maintenance responsibilities, easements, incentives, etc.) developed as part of the Impervious Restoration 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 fifteen (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 South Carolina Department of Transportation (SCDOT) Right of Way (RoW).

Town of Bluffton Impervious Restoration/BMP Retrofit Policy Documents.

Task 3: Section 5.4.4. Stormwater BMP Retrofit Projects of the 2020 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 the 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.

Work Completed and Current Status

- The Expression of Interest was submitted to three (3) consultant firms under existing Master Service Agreements (MSAs) with the Town for review and a request for response.
- All three (3) Firms responded, and their respective responses were evaluated, scored and discussed.
- A recommendation for Award was made and the Consulting Firm of Goodwyn, Mills and Cawood selected.
 1. Phase I of this work is in process under existing FY22 funding from Watershed Management Division.
 2. Phase II of this work will be presented for Town Council review and approval in the August Town Council Meeting and FY23 funding.
- Phase I work completed by Consultant and Town:
 1. Review of recommendations of the 2020 MRWAP Update.
 2. On-site evaluations at each proposed site.
 3. Meetings with Beaufort County School District.
 - Six (6) of the eleven (11) sites are located on Beaufort County School District (henceforth School District) property. The School District is deemed an important project partner and as such several meetings have been held to discuss the Impervious Restoration Program and need for project BMPs to improve water quality. The School District has granted permission for the Town of Bluffton to perform initial site investigations, provided the Town with site specific plans, future

development plans for each site, and expressed a willingness to participate in the Program.

- Drafted a Letter to Non-School Property Owners describing the Impervious Restoration Program and requesting meetings to discuss and gain support.
4. Policy Document Formulation has been initiated and includes research of similar Impervious Restoration Programs Nationwide.

Other, Related 2020 MRWAP Update Recommendations

- Adopt proposed regional Southern Lowcountry Post-Construction Stormwater Ordinance and Design Manual - **completed** September 2021.
- The Town should incorporate volume reduction BMPs (those that encourage infiltration) within existing and future Capital Improvement Projects (CIP) to the maximum extent practical (MEP), especially for project locations with well-drained soils (HSG A or B) – **in progress**, see below.
 - **Work Performed and Current Status**
 - 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 the South Carolina Department of Health and Environmental Control (SCDHEC) to cost-share on construction of proposed BMPs.
 - 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 and ultimately the May River.
 - Submitted Section 319 Grant proposal to SCDHEC to cost-share cost of construction of proposed BMPs. Pre-proposal was accepted, and Full Proposal was requested by SCDHEC. 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 is working with the USCB-MST Laboratory to assess the utility of fecal markers in regional watersheds, including the May River watershed as recommended in the 2020 May River Watershed Action Plan Update and Model Report.
- 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 MRWAP Update.
- Staff is collecting intermittent flow data in conjunction with grab samples at monitoring sites in the May River Headwaters as recommended in the 2020 MRWAP Update.
- Staff working with consultant to identify recommended strategies to gain required intermittent flow data.
- Future (new) Water Flow Monitoring Locations.
 - **Work Performed and Current Status**
 - The 2020 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.
 - The Town of Bluffton established Sontek IQ Plus continuous flow measuring instruments in Stoney Creek, Rose Dhu Creek, and Heyward Cove subwatersheds. In addition, the Town collected intermittent flow data at the time of water quality grab sampling and established a weather station in the May River Watershed. The Town hired a consultant to review all the Town’s continuous, intermittent, and precipitation data and to determine:
 - Useful data had been 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 has been completed.
 - Duck Pond was deemed inconsequential, not needed due to drainage area size and proximity/outfall to tidal waters.
 - If data review resulted in insufficient data, develop a monitoring program that would produce the data needed.
 - Rose Dhu Creek continuous flow data review resulted in data that was insufficient to calibrate Model.
 - Final report identifying recommended strategies to gain required data is in process.
 - In process of purchasing telemetry stations to equip continuous flow monitoring stations with real-time data access for the Rose Dhu and Palmetto Bluff subwatersheds.



May River Watershed Action Plan Advisory Committee Meeting

Thursday, September 22, 2022 at 9:00 AM

Rotary Community Center, 11 Recreation Court

AGENDA

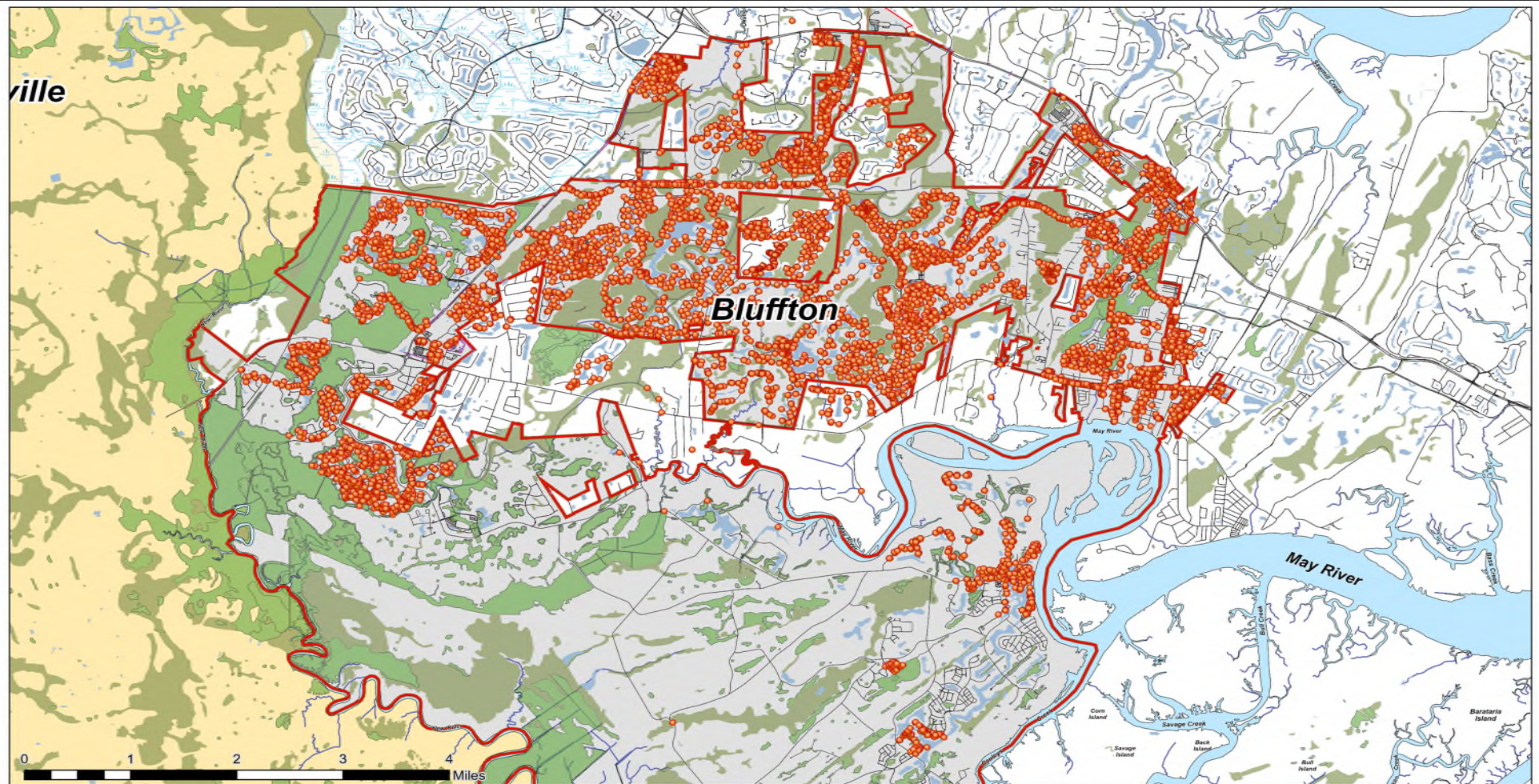
- I. **CALL TO ORDER**
 - II. **ROLL CALL AND CONFIRMATION OF QUORUM**
 - III. **ADOPTION OF THE AGENDA**
 - IV. **ADOPTION OF MINUTES**
 1. Adoption of August 25, 2022 Minutes
 - V. **PUBLIC COMMENTS**
 - VI. **OLD BUSINESS**
 - VII. **NEW BUSINESS**
 1. Development of May River Watershed Action Plan Advisory Committee (WAPAC) Work Plan and Potential Subcommittees - Beth Lewis, Water Quality Program Administrator
 - VIII. **DISCUSSION**
 1. Water Quality Monitoring Program Update - Beth Lewis, Water Quality Program Administrator
 - IX. **ADJOURNMENT**
- NEXT MEETING DATE: 9:00 AM, Thursday, October 27, 2022**

“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. 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 Town Clerk. Public comment must not exceed three (3) minutes.*

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



- SW STRUCTURE
- SW PIPE
- TOWN OF BLUFFTON
- BEAUFORT COUNTY
- JASPER COUNTY
- WETLAND
- WATER
- ROADS

Town of Bluffton
Beaufort County, SC

STORMWATER INFRASTRUCTURE

THIS MAP WAS PREPARED BY THE TOWN OF BLUFFTON FOR THE PURPOSES OF THE MS4 MINIMUM CONTROL MEASURE #3 – IDDE (ILLICIT DISCHARGE DETECTION & ELIMINATION) STORMWATER INFRASTRUCTURE INVENTORY. THE TOWN OF BLUFFTON IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY OCCUR IN THIS MAP. THE TOWN OF BLUFFTON IS NOT PROVIDING ANY WARRANTIES, EXPRESS OR IMPLIED, REGARDING THE ACCURACY, COMPLETENESS, OR RELIABILITY OF THE INFORMATION CONTAINED IN THIS MAP. THE TOWN OF BLUFFTON IS NOT PROVIDING ANY WARRANTIES, EXPRESS OR IMPLIED, REGARDING THE ACCURACY, COMPLETENESS, OR RELIABILITY OF THE INFORMATION CONTAINED IN THIS MAP.

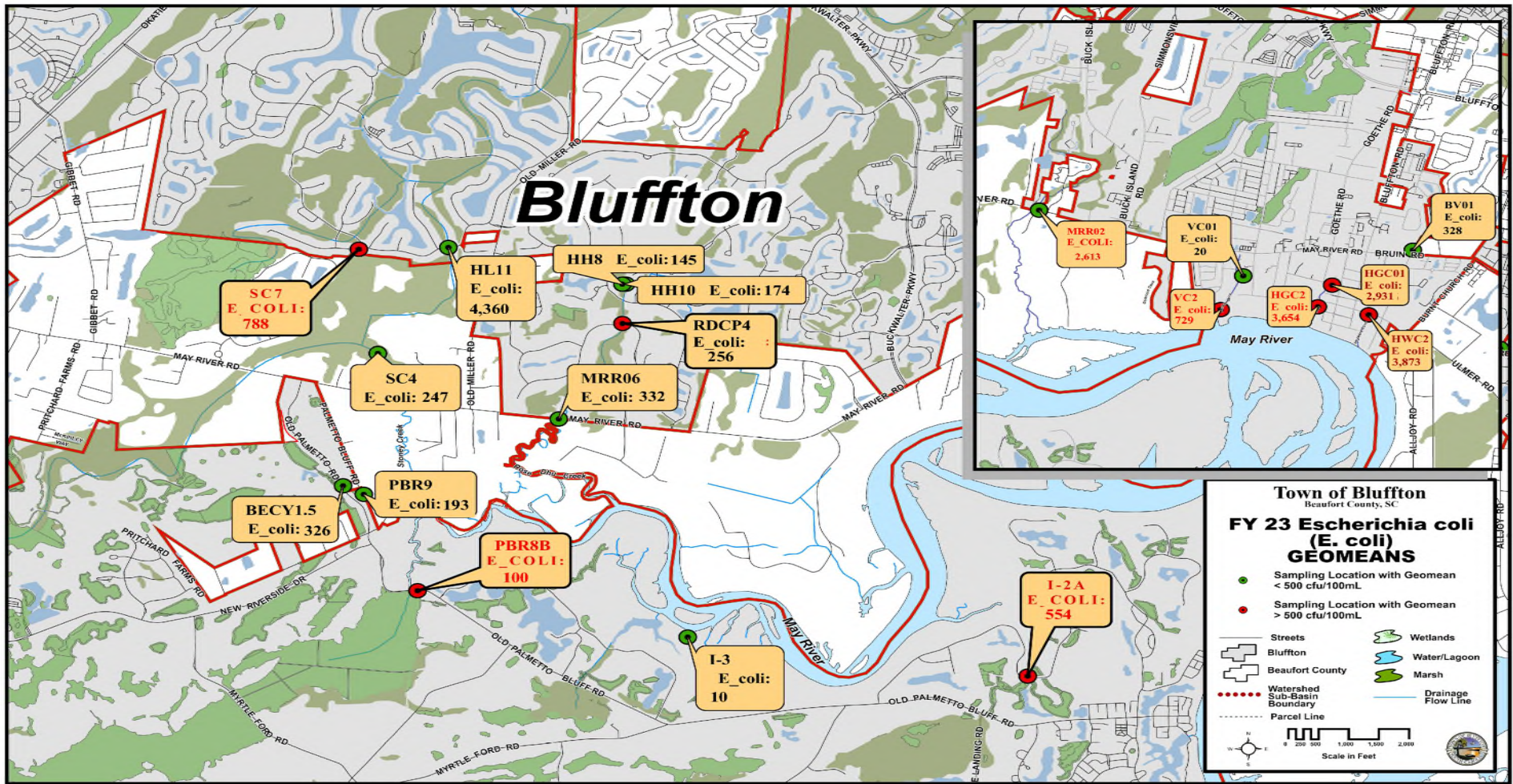


Updated Date: 9/15/2022

Stormwater Infrastructure Inventory Collection Status

FY 2023 YTD Collection Totals	985
FY 2022 YTD Collection Totals	2705
FY 2021 Collection Totals	2,222

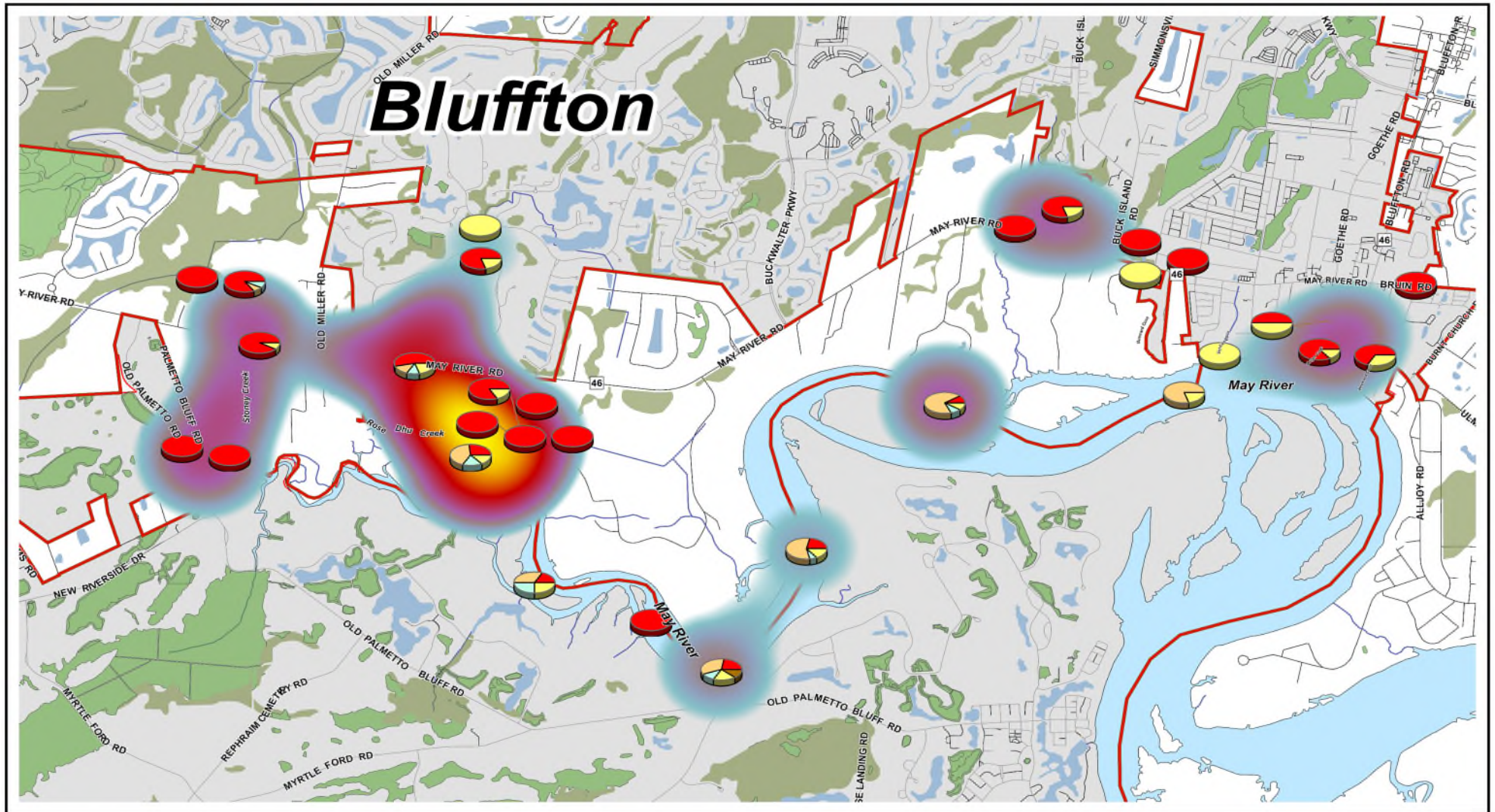
MS4 Minimum Control Measure #3 – IDDE: *E. coli* Concentrations Trend Map



	USCB Water Quality Samples	Microbial Source Tracking Samples	MS4 Quarterly Samples Collected
FY 2023 YTD Totals	138	36	0
FY 2022 Totals	447	78	119
FY 2021 Totals	380	115	179

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

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



MST Sampling Results

- Human
- Bird
- Deer
- Dog
- Horse

MST Sampling Sites

Intensity of samples

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

MICROBIAL SOURCE TRACKING (MST) LOCATIONS

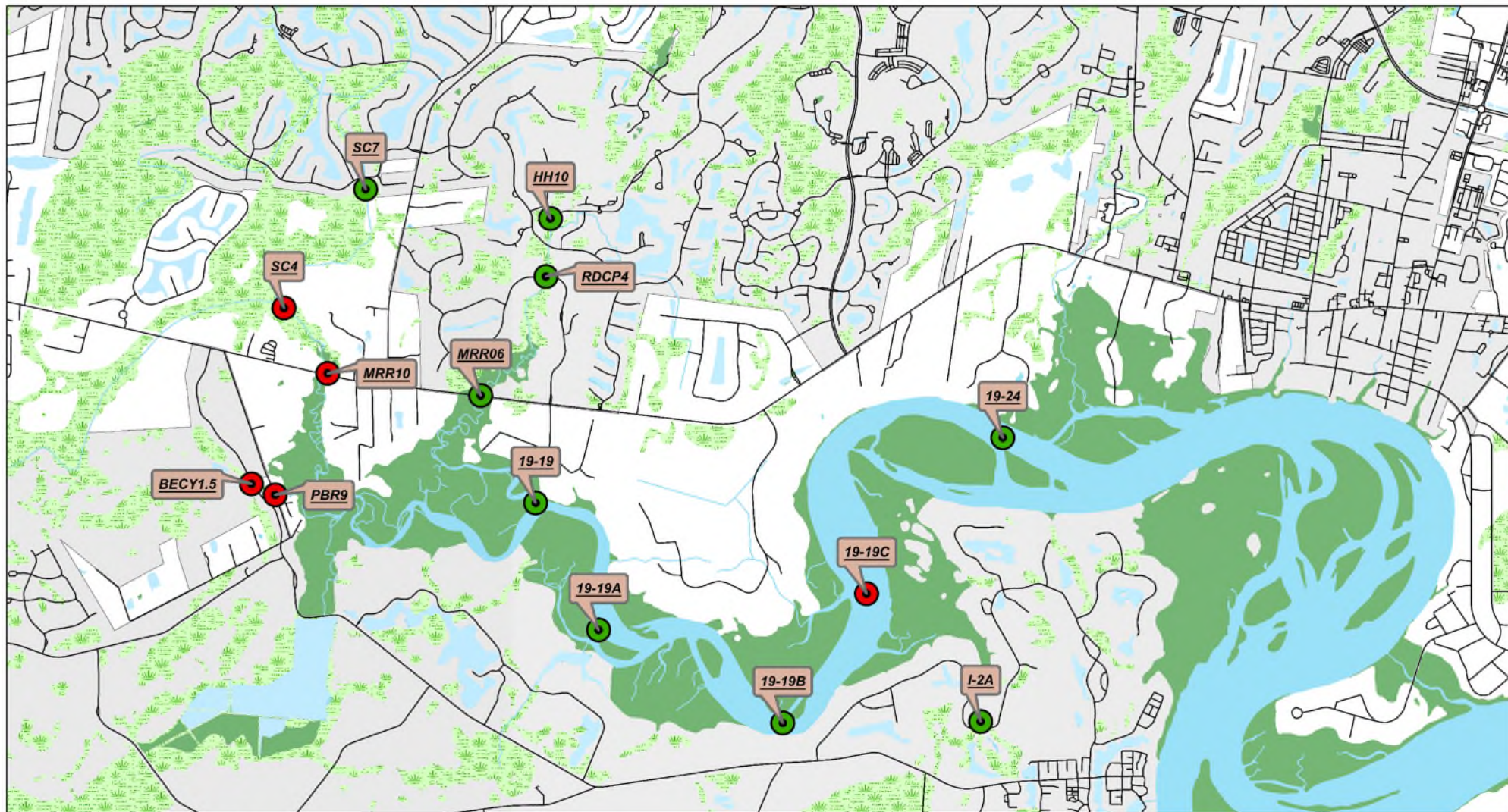
Samples at Sites With Positive Detection
and the Intensity of Positive Hits

Town of Bluffton
Beaufort County, SC

- Town Jurisdiction
- Beaufort County
- Drainage Flow Lines

Updated Date: 9/15/2022

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

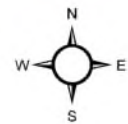


- MST Sampling Location Without Detection
- MST Sampling Location With Positive Detection
- Flowline
- Street
- Town Jurisdiction
- County Jurisdiction

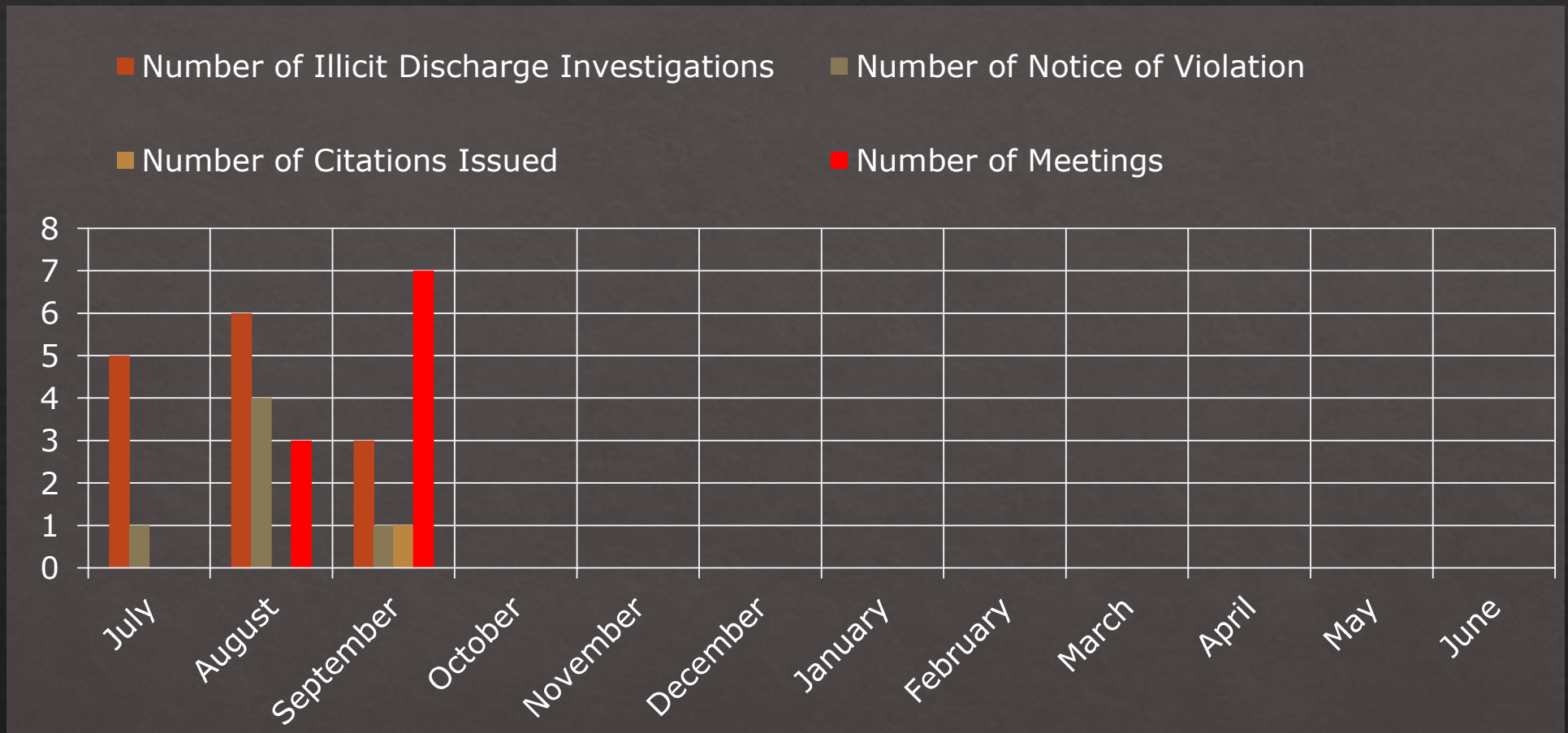
HUMAN MICROBIAL SOURCE TRACKING Sampling Results for September 2022

Town of Bluffton
Beaufort County, SC

This map was created by Beaufort County and is not intended to be used as a legal document. It is for informational purposes only. The Town of Bluffton is not responsible for any errors or omissions on this map. The Town of Bluffton is not responsible for any damages or liabilities arising from the use of this map. The Town of Bluffton is not responsible for any damages or liabilities arising from the use of this map.



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



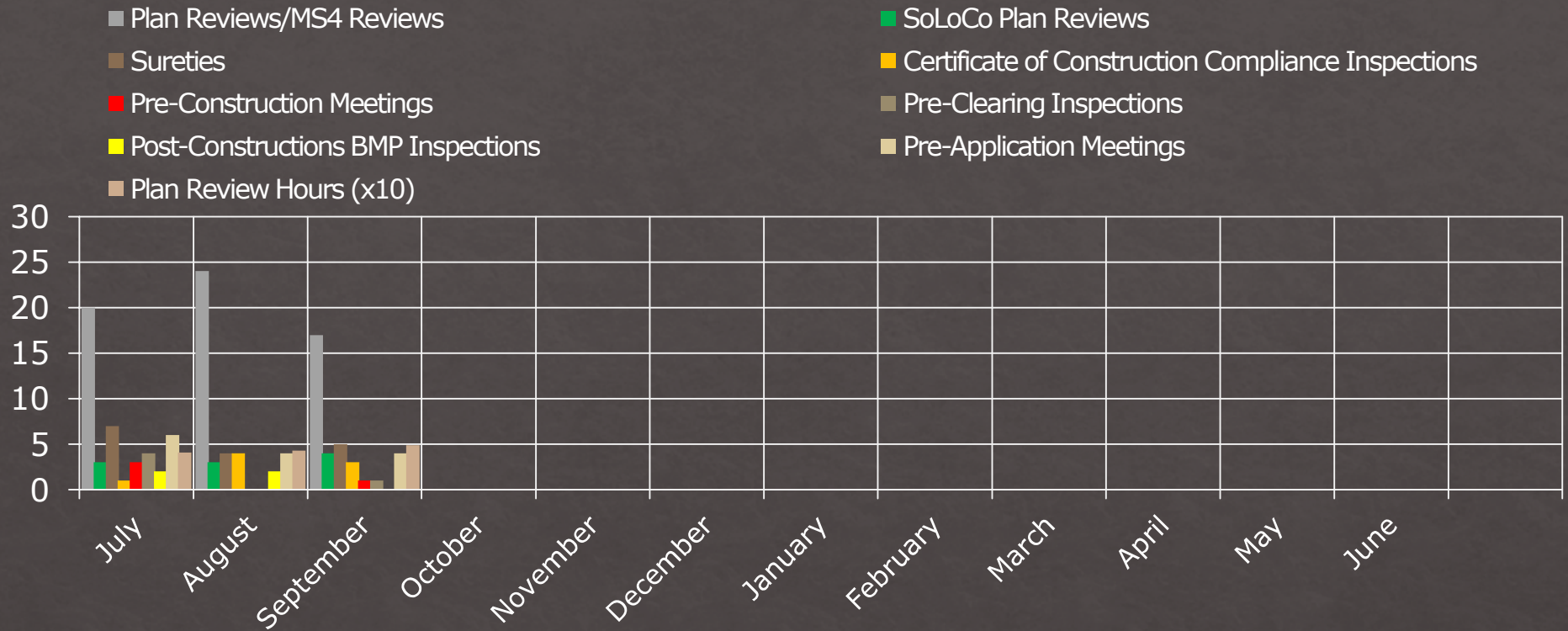
	Number of Illicit Discharge Investigations	Number of Notices of Violation Issued	Number of Citations Issued	Number of Meetings
FY 2023 YTD Totals	14	6	1	10
FY 2022 Totals	30	5	3	17
FY 2021 Totals	36	11	1	29

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



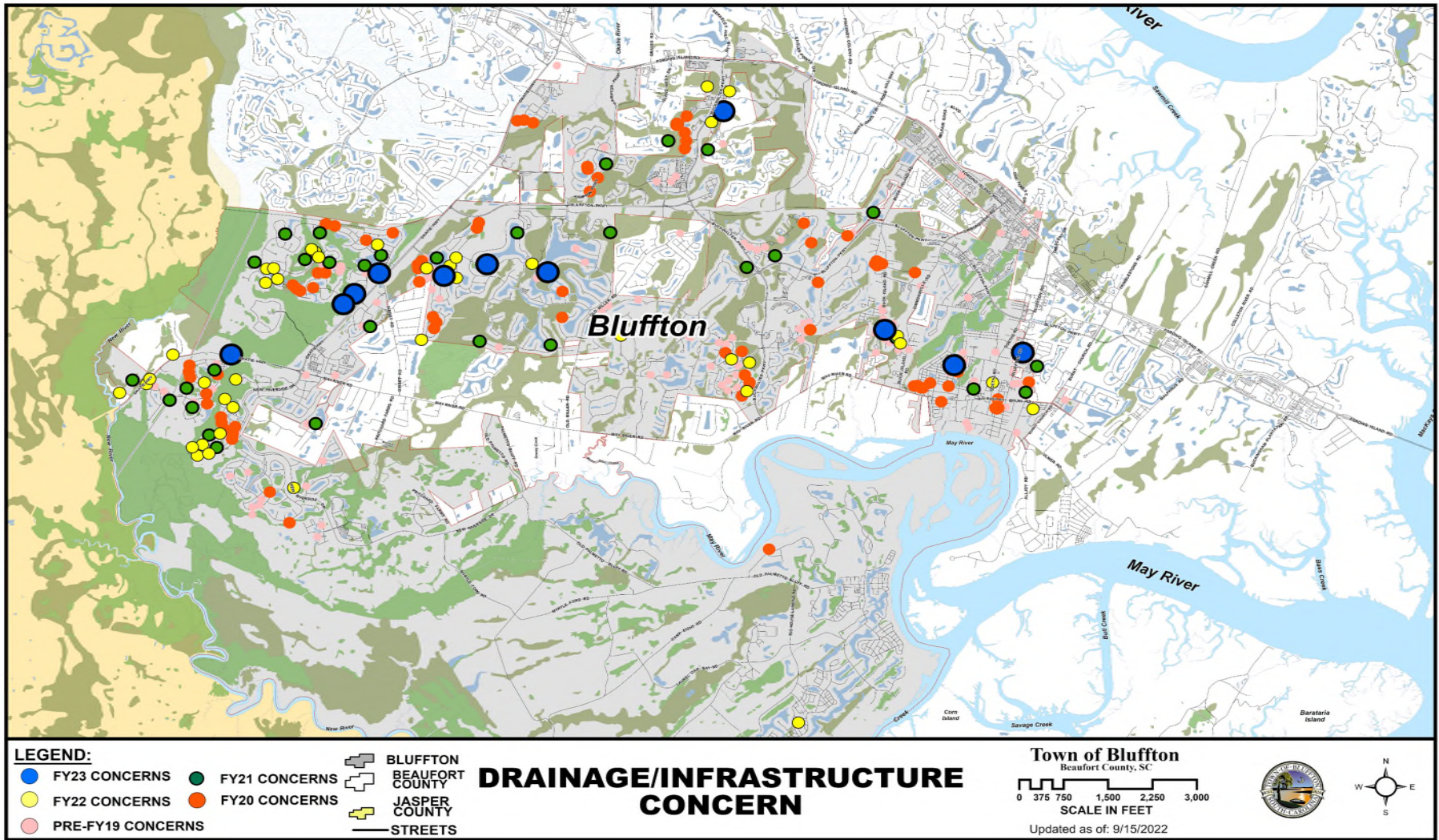
	Number of Sediment & Erosion Control Inspections	Number of Inspections Passed	Number of NOVs Issued	Number of SWO Issued	Number of Citations Issued	Number of E&SC Meetings
FY 23 YTD Totals	615	477	118	20	0	189
FY 2022 Totals	3127	2701	392	49	0	673
FY 2021 Totals	1,805	1,527	267	32	4	413

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



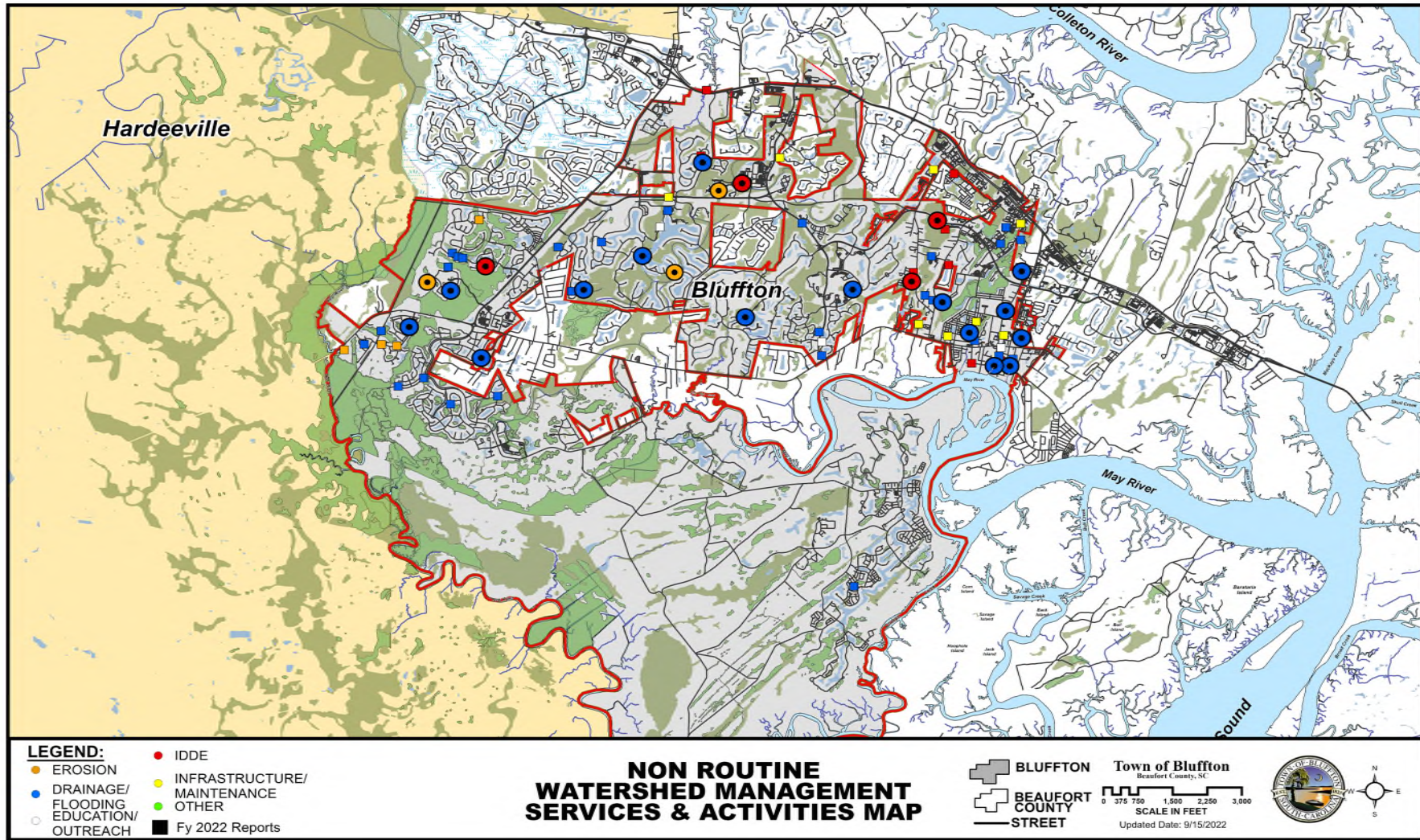
	Plan Reviews MS4 Reviews	SoLoCo Plan Reviews	Sureties	CCC Inspections	Pre-Construction Meetings	Pre-Clearing Inspections	Post Construction BMP Inspections	Pre-Application Meetings	Total Plan Review Hours
FY 2023 YTD	61	10	16	8	4	5	4	14	133 Hrs.
FY 2022 Totals	231	13	42	26	30	23	44	26	454 Hrs.
FY 2021 Totals	186	0	61	55	24	24	22	41	789 Hrs.

Citizen Drainage, Maintenance and Inspections Concerns Map



	Number of Drainage Concerns Investigated	Number of Meetings
FY 2023 YTD Totals	34	28
FY 2022 Totals	38	34
FY 2021 Totals	45	39

Citizen Request for Watershed Mngt. Services & Activities Map



	Number of Citizen Requests Investigated	Number of Meetings
FY 2023 YTD Totals	8	2
FY 2022 Totals	33	21
FY 2021 Totals	46	36

BUCK ISLAND-SIMMONSVILLE NEIGHBORHOOD SIDEWALKS
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Predecessors	2018												2019												2020												2021												2022												2023																	
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J
1	SIDEWALKS AND LIGHTING	1440 days	Thu 2/1/18	Wed 8/9/23		◆																																																																													
2	Sidewalk from Jennifer Ct to Simmonsville Rd	405 days	Thu 2/1/18	Wed 8/21/19		◆																																																																													
3	Final Design and Construction Documents	120 days	Thu 2/1/18	Wed 7/18/18		◆																																																																													
7	Permitting	63 days	Thu 6/21/18	Mon 9/17/18		◆																																																																													
9	Easements	220 days	Wed 7/18/18	Tue 5/21/19		◆																																																																													
15	Bidding/Contract	106 days	Tue 9/18/18	Tue 2/12/19		◆																																																																													
20	Construction	61 days	Wed 5/29/19	Wed 8/21/19	14	◆																																																																													
26																																																																																			
27	Sidewalk from Kitty Road to 301 Buck Island Rd	709 days	Thu 2/1/18	Tue 10/20/20		◆																																																																													
28	Final Design and Construction Documents	392 days	Thu 2/1/18	Fri 8/2/19		◆																																																																													
34	Permitting	40 days	Mon 8/5/19	Fri 9/27/19	31	◆																																																																													
36	Easements	87 days	Mon 9/30/19	Tue 1/28/20		◆																																																																													
42	Bidding/Contract	97 days	Mon 9/30/19	Tue 2/11/20		◆																																																																													
47	Construction	136 days	Tue 4/14/20	Tue 10/20/20		◆																																																																													
53																																																																																			
54	Sidewalk from Grayco to Sugaree (Simmonsville Rd)	923 days	Mon 10/1/18	Wed 4/13/22		◆																																																																													
55	Final Design and Construction Documents	520 days	Mon 10/1/18	Fri 9/25/20		◆																																																																													
61	Permitting	180 days	Mon 9/28/20	Fri 6/4/21		◆																																																																													
63	Easements	86 days	Mon 6/7/21	Mon 10/4/21		◆																																																																													
68	Bidding/Contract	47 days	Mon 6/7/21	Tue 8/10/21		◆																																																																													
73	Construction	176 days	Wed 8/11/21	Wed 4/13/22		◆																																																																													
80																																																																																			
81	Sidewalk from Sugaree to Windy Lake (Simmonsville Rd)	563 days	Thu 7/1/21	Mon 8/28/23		◆																																																																													
82	Final Design and Construction Documents	288 days	Thu 7/1/21	Mon 8/8/22		◆																																																																													
86	Permitting	60 days	Tue 8/9/22	Mon 10/31/22	82	◆																																																																													
88	Easements	0 days	Mon 10/31/22	Mon 10/31/22	83	◆																																																																													
93	Bidding/Contract	61 days	Tue 11/1/22	Tue 1/24/23	84	◆																																																																													
98	Construction	154 days	Wed 1/25/23	Mon 8/28/23	85	◆																																																																													
105																																																																																			
106	Lighting - Kitty Road to 301 Buck Island Rd	329 days	Thu 5/13/21	Tue 8/16/22		◆																																																																													
113																																																																																			
114	Lighting - Grayco to Windy Lakes	150 days	Thu 1/12/23	Wed 8/9/23		◆																																																																													
115																																																																																			
116																																																																																			

Project: 00054	Milestone ◆	Project Duration ◆	Permitting ◆	Construction ◆
Date: Wed 7/20/22	Critical Task ★	Planning and Conceptual Design ◆	Bidding and Contract ◆	
	Task ■	Final Design and Construction Documents ◆	Easements and Land Acquisitions ◆	

BRIDGE STREET STREETScape
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	
1	BRIDGE STREET STREETScape	271 days	Mon 7/18/22	Mon 7/31/23	
2	Construction	271 days	Mon 7/18/22	Mon 7/31/23	

Project: 00082 Date: Mon 9/19/22	Milestone	◆	Project Duration	◀────────▶	Permitting	▨	Construction	▨
	Critical Task	★	Planning and Conceptual Design	▨	Easements and Land Acquisition	▨		
	Task	■	Final Design and Construction Documents	▨	Bidding and Contracts	▨		

MAY RIVER ROAD POCKET PARK
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	January	February	March	April	May	June	July	August	September	October	November	December	January	February	March	April	May	June	July	August	September	October	November	December	January				
1	00100 Buck Island Rd Drainage Improvements	658 days	Wed 7/1/20	Fri 1/6/23	◆																												
2	Buck Island Rd Design and Construction Documents	218 days	Mon 1/4/21	Wed 11/3/21	◆																												
4	Buck Island Bidding and Contracts	247 days	Thu 11/4/21	Fri 10/14/22	◆																												
10	Buck Island Construction	60 days	Mon 10/17/22	Fri 1/6/23	◆																												

184 BLUFFTON ROAD PARKING IMPROVEMENTS
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Predecessors	Finish	July 6/27	8/8	October 9/19	10/31	January 12/12	1/23	April 3/6	4/17	5/29	July 7/10	8/21	October 10/2	11/13	January 12/25
0	00098 Buckwalter Place Parking Improvements	363 days	Sun 8/1/21		Wed 12/21/22	◆													
1	Planning & Conceptual Design	81 days	Sun 8/1/21		Mon 11/22/21	◆													
5	Final Design & Construction Documents	90 days	Tue 10/5/21		Mon 2/7/22	◆													
8	Permitting	120 days	Tue 10/5/21		Mon 3/21/22	◆													
11	Easements & Land Acquisition	21 days	Tue 10/5/21		Tue 11/2/21	◆													
13	Bidding & Contracts	32 days	Mon 8/1/22		Tue 9/13/22	◆													
18	Construction	71 days	Wed 9/14/22		Wed 12/21/22	◆													

Project: 00064 Date: Thu 7/7/22	Milestone	◆	Project Duration	◆	Permitting	◆	Construction
	Critical Task	★	Planning and Conceptual Design	◆	Easements and Land Acquisition	◆	
	Task	■	Final Design and Construction Documents	◆	Bidding and Contracts	◆	

CALHOUN STREET STREETScape
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Timeline
1	CALHOUN STREET STREETScape	1285 days	Mon 9/7/20	Fri 8/8/25	
2	Final Planning and Construction Documents	545 days	Mon 9/7/20	Fri 10/7/22	
24	Permitting Phase (Phase 1)	101 days	Tue 8/9/22	Tue 12/27/22	
29	Easements and Land Acquisition (Phase 1)	266 days	Mon 7/25/22	Mon 7/31/23	
38	Bidding - Phase 1	90 days	Mon 7/3/23	Fri 11/3/23	
40	Construction Phase 1	250 days	Mon 12/4/23	Fri 11/15/24	

Project: 00042
Date: Thu 7/7/22

Milestone

Critical Task

Task

Project Duration

Planning and Conceptual Design

Final Design and Construction Documents

Permitting

Bidding and Contract

Easements and Land Acquisitions

Construction

MAY RIVER ROAD POCKET PARK
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish
1	Comprehensive Drainage Plan Improvements	1562 days	Thu 7/1/21	Fri 6/25/27
2	Planning	822 days	Mon 8/2/21	Tue 9/24/24
13	Final Design and Construction Documents	566 days	Mon 4/15/24	Mon 6/15/26
16	Bidding and Contracts	608 days	Mon 7/1/24	Wed 10/28/26
19	Construction	741 days	Fri 8/23/24	Fri 6/25/27

GARVIN-GARVEY HOUSE INTERPRETIVE SIGNAGE
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	
1	GARVIN-GARVEY HOUSE INTERPRETIVE SIGNAGE	179 days	Tue 3/1/22	Fri 11/4/22	
2	Planning and Conceptual Design	125 days	Mon 3/7/22	Fri 8/26/22	
13	Final Design and Construction Documents	50 days	Mon 8/29/22	Fri 11/4/22	
15	Onsite Installation	23 days	Mon 10/31/22	Wed 11/30/22	
16					

Project: 00081 Date: Mon 9/19/22	Milestone	◆	Project Duration		Permitting		Construction	
	Critical Task	★	Planning and Conceptual Design		Easements and Land Acquisition			
	Task		Final Design and Construction Documents		Bidding and Contracts			

**GOETHE-SHULTS NEIGHBORHOOD IMPROVEMENTS PHASE 2
PROPOSED SCHEDULE**

ID	Task Name	Duration	Start	Finish	1, 2018		Half 2, 2018			Half 1, 2019			Half 2, 2019			Half 1, 2020			Half 2, 2020			Half 1, 2021			Half 2, 2021			Half 1, 2022			Half 2, 2022			Half
					Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan
1	GOETHE/SHULTS NEIGHBORHOOD IMPROVEMENTS PHASE 2	970 days	Mon 4/30/18	Fri 1/14/22	◆																													
2	PLANNING AND CONCEPTUAL DESIGN	326 days	Mon 4/30/18	Mon 7/29/19	◆																													
12	FINAL DESIGN AND CONSTRUCTION DOCUMENTS	209 days	Tue 7/30/19	Fri 5/15/20	◆																													
21	PERMITTING	128 days	Mon 5/18/20	Wed 11/11/20	◆																													
25	EASEMENTS AND LAND ACQUISITION	187 days	Mon 4/6/20	Tue 12/22/20	◆																													
32	BIDDING AND CONTRACTS	101 days	Tue 12/1/20	Tue 4/20/21	◆																													
37	CONSTRUCTION	468 days	Wed 4/21/21	Fri 2/3/23	◆																													

Project: 00055
Date: Mon 9/19/22

Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
Critical Task	★	Planning and Conceptual Design	◆	Easements and Land Acquisition	◆		
Task	█	Final Design and Construction Documents	◆	Bidding and Contracts	◆		

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 2
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Predecessors	Timeline											
						Half 2, 2018	Half 1, 2019	Half 2, 2019	Half 1, 2020	Half 2, 2020	Half 1, 2021	Half 2, 2021	Half 1, 2022	Half 2, 2022	Half 1, 2023		
1	PHASE 2	1260 days	Mon 7/2/18	Fri 4/28/23		◆											
2	Planning and Conceptual Design	185 days	Mon 7/2/18	Fri 3/15/19		◆											
10	Final Design and Construction Documents	20 days	Mon 3/18/19	Fri 4/12/19		◆											
12	Permitting	55 days	Mon 4/15/19	Fri 6/28/19		◆											
15	Easements and Land Acquisition	550 days	Mon 7/1/19	Fri 8/6/21		◆											
17	Redesign and Construction Documents	165 days	Mon 2/28/22	Fri 10/14/22		◆											
22	Bidding and Contracts	57 days	Mon 9/19/22	Tue 12/6/22		◆											
27	Construction	103 days	Wed 12/7/22	Fri 4/28/23		◆											

Project: 00071 Date: Mon 9/19/22	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
	Critical Task	★	Planing and Conceptual Design	◆	Easements and Land Acquisitions	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contracts	◆		

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 3
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2021												2022												2023									
					Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May		
1	PHASE 3	629 days	Mon 11/2/20	Thu 3/30/23	◆																																	
2	Planning and Conceptual Design	236 days	Mon 11/2/20	Mon 9/27/21	◆																																	
9	Final Design and Construction Documents	197 days	Tue 9/28/21	Wed 6/29/22	◆																																	
11	Permitting	59 days	Thu 6/30/22	Tue 9/20/22	◆																																	
14	Easements and Land Acquisition	105 days	Tue 9/21/21	Mon 2/14/22	◆																																	
17	Bidding and Contracts	46 days	Wed 9/21/22	Wed 11/23/22	◆																																	
22	Construction	91 days	Thu 11/24/22	Thu 3/30/23	◆																																	

Project: 00072 Date: Mon 9/19/22	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
	Critical Task	★	Planing and Conceptual Design	◆	Easements and Land Acquisitions	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contracts	◆		

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 4
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2021												2022												2023								
					Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar			
1	PHASE 4	619 days	Mon 11/2/20	Thu 3/16/23	◆																																
2	Planning and Conceptual Design	236 days	Mon 11/2/20	Mon 9/27/21	◆																																
9	Final Design and Construction Documents	160 days	Tue 9/28/21	Mon 5/9/22	◆																																
11	Permitting	40 days	Tue 5/10/22	Mon 7/4/22	◆																																
14	Easements and Land Acquisition	260 days	Tue 9/21/21	Mon 9/19/22	◆																																
17	Bidding and Contracts	91 days	Tue 7/5/22	Tue 11/8/22	◆																																
22	Construction	92 days	Wed 11/9/22	Thu 3/16/23	◆																																

Project: 00073	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
Date: Thu 7/7/22	Critical Task	★	Planing and Conceptual Design	◆	Easements and Land Acquisitions	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contracts	◆		

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 5
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2021												2022												2023								
					Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar			
1	PHASE 5	619 days	Mon 11/2/20	Thu 3/16/23	◆																																
2	Planning and Conceptual Design	236 days	Mon 11/2/20	Mon 9/27/21	◆																																
9	Final Design and Construction Documents	120 days	Tue 9/28/21	Mon 3/14/22	◆																																
11	Permitting	40 days	Tue 3/15/22	Mon 5/9/22	◆																																
14	Easements and Land Acquisition	260 days	Tue 9/21/21	Mon 9/19/22	◆																																
17	Bidding and Contracts	131 days	Tue 5/10/22	Tue 11/8/22	◆																																
22	Construction	92 days	Wed 11/9/22	Thu 3/16/23	◆																																

Project: 00074	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
Date: Thu 7/7/22	Critical Task	★	Planing and Conceptual Design	◆	Easements and Land Acquisitions	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contracts	◆		

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 6
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Predecessors	2021												2022												2023								
						Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar			
1	PHASE 6	619 days	Mon 11/2/20	Thu 3/16/23		◆																																
2	Planning and Conceptual Design	236 days	Mon 11/2/20	Mon 9/27/21		◆																																
9	Final Design and Construction Documents	120 days	Tue 9/28/21	Mon 3/14/22		◆																																
11	Permitting	40 days	Tue 3/15/22	Mon 5/9/22		◆																																
14	Easements and Land Acquisition	260 days	Tue 9/21/21	Mon 9/19/22		◆																																
17	Bidding and Contracts	131 days	Tue 5/10/22	Tue 11/8/22		◆																																
22	Construction	92 days	Wed 11/9/22	Thu 3/16/23		◆																																

Project: 00075 Date: Thu 7/7/22	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
	Critical Task	★	Planing and Conceptual Design	◆	Easements and Land Acquisitions	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contracts	◆		

NEW RIVER LINEAR TRAIL
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	July	August	Septemb	October	Novemb	Decembe	January	February	March	April	May	June	July	August	Septemb	October	Novemb	Decembe	January	February	March	April	May	June	July	August	Septemb	October	Novemb			
1	NEW RIVER LINEAR TRAIL	617 days	Mon 7/5/21	Tue 11/14/23	◆																															
2	Planning	121 days	Mon 7/5/21	Mon 12/20/21	◆																															
3	Obtain Proposal for Surveying	21 days	Mon 7/5/21	Mon 8/2/21	◆																															
4	Prepare Boundary, Topo, Wetland Surveys	45 days	Mon 8/2/21	Fri 10/1/21	◆																															
5	Obtain GIS Data fro Town and County Sources	10 days	Mon 8/2/21	Fri 8/13/21	◆																															
6	Obtain Proposal and Approval for Engineering Services	35 days	Fri 8/13/21	Thu 9/30/21	◆																															
7	Project Kick off meeting	1 day	Mon 10/18/21	Mon 10/18/21	★																															
8	Prepare Conceptual Master Plan	20 days	Mon 10/18/21	Fri 11/12/21	◆																															
9	Present Plan to Staff for Review and Comment	5 days	Mon 11/15/21	Fri 11/19/21	◆																															
10	Update Master Plan based on Staff Input	10 days	Mon 11/22/21	Fri 12/3/21	◆																															
11	Prep Conceptual Estimate of Probable Construction Cost	5 days	Mon 12/6/21	Fri 12/10/21	◆																															
12	Present Plans and Estimates to Staff for Review	5 days	Mon 12/13/21	Fri 12/17/21	◆																															
13	Present Conceptual MP to Town Manager	1 day	Mon 12/20/21	Mon 12/20/21	★																															
14	Final Planning and Construction Documents	154 days	Fri 7/1/22	Wed 2/1/23	◆																															
15	Define Scope of Phase 1 Development	1 day	Fri 7/1/22	Fri 7/1/22	◆																															
16	Prep 70% Engineering Design CDs	70 days	Mon 7/4/22	Fri 10/7/22	◆																															
17	Obtain Dominion Energy Lighting Plans	22 days	Thu 9/8/22	Fri 10/7/22	◆																															
18	Finalize Restroom and Well Plans	22 days	Thu 9/8/22	Fri 10/7/22	◆																															
19	Staff Review of 70% Engineering Design	5 days	Mon 10/10/22	Fri 10/14/22	◆																															
20	Prepare 90% Engineering Design	20 days	Mon 10/17/22	Fri 11/11/22	◆																															
21	Staff Review of 90% Plans	5 days	Mon 11/14/22	Fri 11/18/22	◆																															
22	Negotiate Santee Cooper Participation	28 days	Mon 11/21/22	Wed 12/28/22	◆																															
23	Prepare Engineering Bid Documents	10 days	Thu 12/29/22	Wed 1/11/23	◆																															
24	Prepare Estimate of Probable Construction Cost	5 days	Thu 1/12/23	Wed 1/18/23	◆																															
25	Staff Review of Bid Documents	10 days	Thu 1/19/23	Wed 2/1/23	◆																															
26	Permitting	121 days	Thu 2/2/23	Thu 7/20/23	◆																															
27	Public Project Review	11 days	Thu 2/2/23	Thu 2/16/23	◆																															
28	DHEC/OCRM Review	40 days	Fri 2/17/23	Thu 4/13/23	◆																															
29	BJWSA	35 days	Fri 4/14/23	Thu 6/1/23	◆																															
30	Finalize and Approve 100% Plans	5 days	Fri 6/2/23	Thu 6/8/23	◆																															
31	Utility Coordination	30 days	Fri 6/9/23	Thu 7/20/23	◆																															
32	Bidding and Contracts	55 days	Fri 7/21/23	Thu 10/5/23	◆																															
33	Prepare Solicitation	5 days	Fri 7/21/23	Thu 7/27/23	◆																															
34	Obtain Approval for Solicitation	10 days	Fri 7/28/23	Thu 8/10/23	◆																															
35	Bid Period	30 days	Fri 8/11/23	Thu 9/21/23	◆																															
36	Bid Evaluation	5 days	Fri 9/22/23	Thu 9/28/23	◆																															
37	Prepare Contracts and Staff Report	5 days	Fri 9/29/23	Thu 10/5/23	◆																															
38	Submit Contract for TC Approval	1 day	Tue 11/14/23	Tue 11/14/23	◆																															
39																																				
40																																				
41																																				
42																																				
43																																				
44																																				
45																																				

Project 00092
Mon 9/19/22

Project Duration: ◆
Task: ◆

Critical Task: ★
Milestone: ◆

Planning and Conceptual Design: ◆
Final Design and Construction Documents: ◆

Permitting: ◆
Easements and Land Acquisition: ◆

Bidding and Contracts: ◆
Construction: ◆

OYSTER FACTORY PARK
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Predecessors	Finish	2020												2021												2022												2023											
						S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M																	
1	Oyster Factory Park	884 days	Mon 10/14/19		Thu 3/2/23	◆																																															
2	Planning and Conceptual Design	705 days	Mon 10/14/19		Sat 6/25/22	◆																																															
9	Easement and Land Acquisition	210 days	Tue 5/11/21		Mon 2/28/22	◆																																															
11	Construction	144 days	Mon 8/15/22		Thu 3/2/23	◆																																															

Project: 00059 Date: Mon 9/19/22	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
	Critical Task	★	Planning and Conceptual Design	◆	Easements and Land Acquisition	◆		
	Task	█	Final Design and Construction Documents	◆	Bidding and Contracts	◆		

PARK IMPROVEMENTS
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2022	August 2022	September 2022	October 2022	November 2022	December 2022	January 2023	Feb				
					7/10	7/31	8/21	9/11	10/2	10/23	11/13	12/4	12/25	1/15		
1	PARK IMPROVEMENTS - FY 23	165 days	Mon 8/1/22	Fri 3/17/23	◆											
2	Final Planning and Construction Documents	55 days	Mon 8/1/22	Fri 10/14/22	◆											
6	Bidding and Contracts	55 days	Mon 9/26/22	Fri 12/9/22	◆											
12	Construction	51 days	Mon 11/21/22	Mon 1/30/23	◆											

Project 00086 Wed 7/13/22	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
	Critical Task	★	Planning and Conceptual Design	◆	Easements and Land Acquisition	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contracts	◆		

PATHWAY PEDESTRIAN SAFETY IMPROVEMENTS
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Month																											
					July	August	Septemb	October	Novemb	Decembe	January	February	March	April	May	June	July	August	Septemb	October	Novemb	Decembe	January	February	March	April	May	June	July	August	Septemb	October
1	Pathway Pedestrian Safety Improvements	412 days	Thu 7/1/21	Fri 1/27/23	◆—————◆																											
2	Planning and Conceptual Design	88 days	Thu 7/1/21	Mon 11/1/21	◆—————◆																											
6	Final Planning and Construction Documents	76 days	Fri 11/5/21	Fri 2/18/22	◆—————◆																											
11	Permitting	154 days	Wed 3/2/22	Mon 10/3/22	◆—————◆																											
18	Bidding and Contract	45 days	Mon 10/3/22	Fri 12/2/22	◆—————◆																											
23	Construction	40 days	Mon 12/5/22	Fri 1/27/23	◆—————◆																											

Project: 00050 Date: Mon 9/19/22	Milestone	◆	Project Duration	◆—————◆	Permitting	◆—————◆	Construction	◆—————◆
	Critical Task	★	Planning and Conceptual Design	◆—————◆	Bidding and Contract	◆—————◆		
	Task	■	Final Design and Construction Documents	◆—————◆	Easements and Land Acquisitions	◆—————◆		

PATHWAY PEDESTRIAN SAFETY IMPROVEMENTS AME
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	
1	AME Church Rain Garden	543 days	Mon 9/28/20	Wed 10/26/22	
2	AME Final Design and Construction Documents	226 days	Wed 10/28/20	Wed 9/8/21	
5	AME Bidding and Contracts	170 days	Mon 8/16/21	Fri 4/8/22	
11	AME Construction	143 days	Mon 4/11/22	Wed 10/26/22	

SARAH RILEY HOOKS MASTER PLANNING
FY 23 PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Timeline																														
					August	September	October	November	December	January	February	March																							
1	SARAH RILEY HOOKS COTTAGE MASTER PLAN	315 days	Mon 8/1/22	Fri 10/13/23																															
2	Planning	40 days	Mon 8/1/22	Fri 9/23/22																															
6	Design (Master Planning)	115 days	Mon 9/26/22	Fri 3/3/23																															

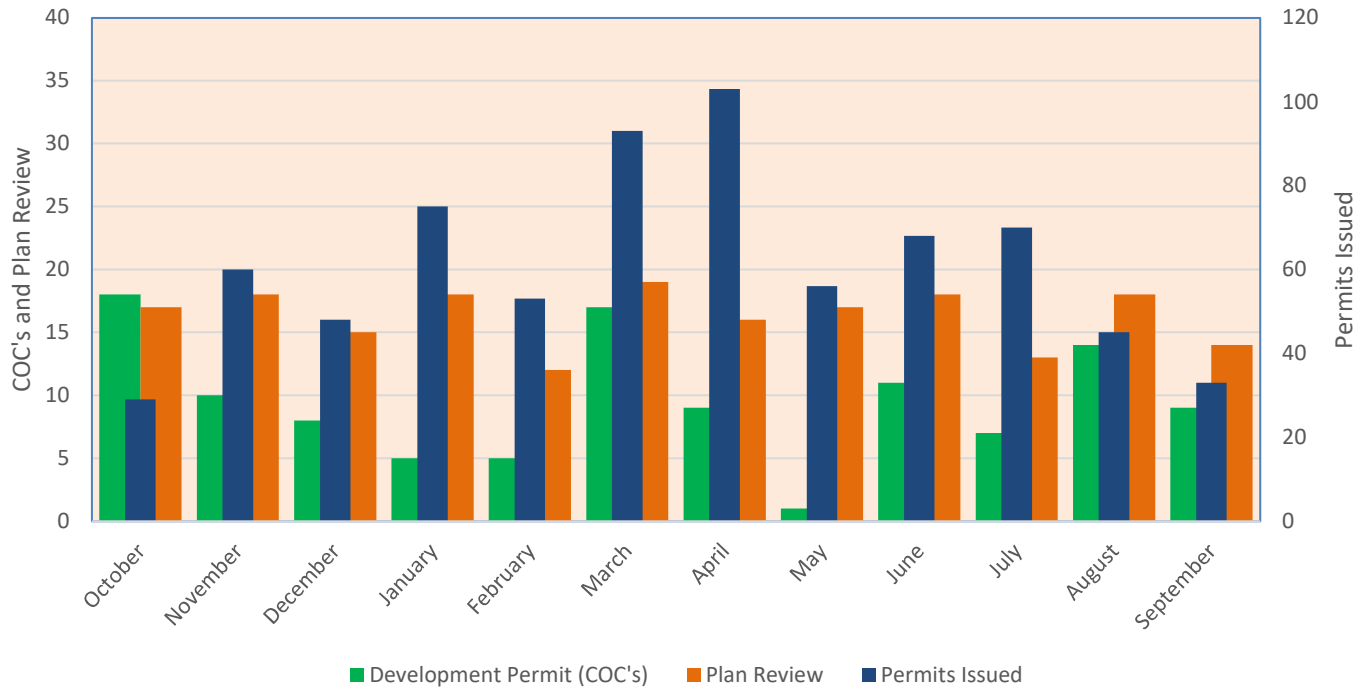
Project 00101 Fri 7/15/22	Milestone		Project Duration		Permitting		Construction	
	Critical Task	★	Planning and Conceptual Design		Easements and Land Acquisition			
	Task		Final Design and Construction Documents		Bidding and Contracts			

WHARF STREET LIGHTING
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2022												2023											
					Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
1	WARF STREET LIGHTING	552 days	Mon 7/5/21	Tue 8/15/23	◆																							
2	Planning and Conceptual Design	352 days	Mon 7/5/21	Tue 11/8/22	◆																							
12	Permitting	90 days	Wed 11/9/22	Tue 3/14/23	◆																							
14	Easements and Land Acquisition	160 days	Wed 11/9/22	Tue 6/20/23	◆																							
17	Construction	200 days	Wed 11/9/22	Tue 8/15/23	◆																							

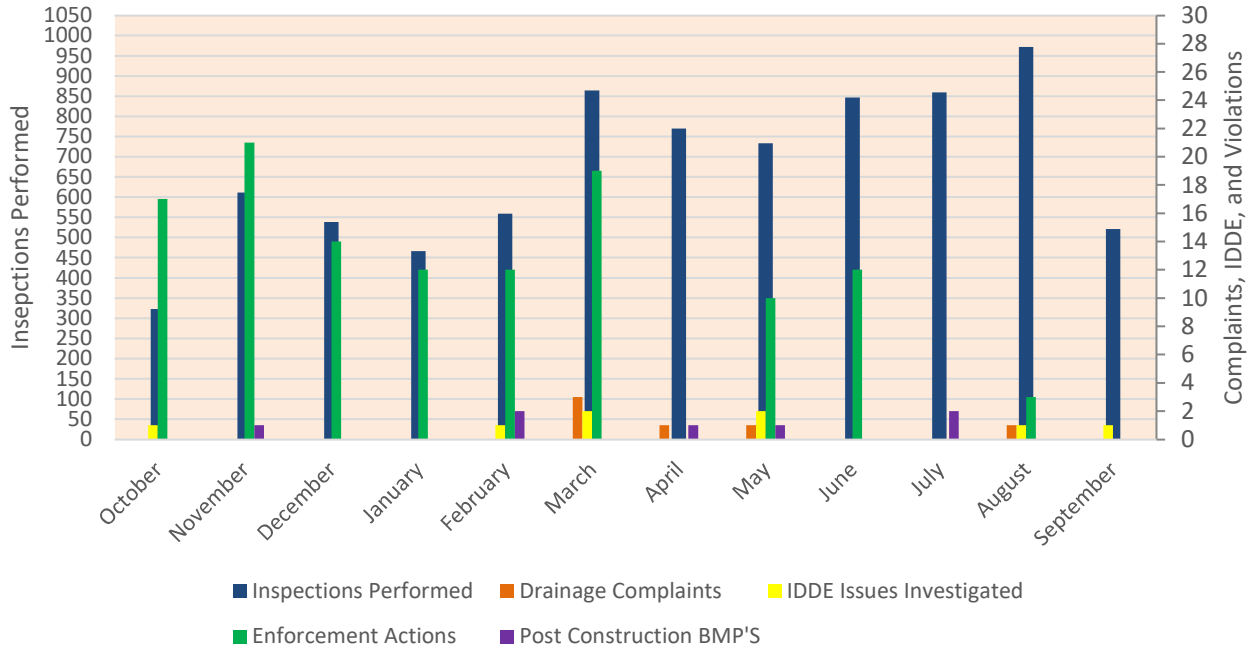
Project: 00068 Date: Thu 7/7/22	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
	Critical Task	★	Planning and Conceptual Design	◆	Easements and Land Acquisition	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contract	◆		

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)	18	10	8	5	5	17	9	1	11	7	14	9	114
Plan Review	17	18	15	18	12	19	16	17	18	13	18	14	195
Permits Issued	29	60	48	75	53	93	103	56	68	70	45	33	29

MS4 Minimum Control Measure #4 Erosion Sediment Control Inspections



TYPE	October	November	December	January	February	March	April	May	June	July	August	September	Last 12 Months
Inspections Performed	323	611	538	466	559	864	770	733	847	859	972	521	8063
Drainage Complaints	0	0	0	0	0	3	1	1	0	0	1	0	6
IDDE Issues Investigated	1	0	0	0	1	2	0	2	0	0	1	1	8
Enforcement Actions	17	21	14	12	12	19		10	12	0	3	0	95
Post Construction BMP'S	0	1	0	0	2	0	1	1	0	2	0	0	9

USCB Water Quality Lab Update

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.

Amendment #1: Fully executed on 7/28/22 allowing Danielle Mickel to be CO-Principal Investigator and now Lead Principal Investigator of grant contract with Dr. Alan Warren's departure.

Monitoring for 2022 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: Fourth quarter has begun on October 1, 2022.

CIP:

- 1. Mossy Oaks Drainage Study:** Mossy Oaks drainage area plan consists of a bi-monthly collection of four sampling sites; two outfall basins and two upstream basins. **Status:** Bi-monthly sampling has begun in June 2021. A full year's worth of data is completed.
- 2. Pepper Hall Drainage Study:** Pepper Hall property monitoring plan consists of a bi-monthly collection of six sampling sites; 3 inlets and 3 outlets to determine baseline data prior to construction. Sampling will continue during and after construction to measure the effectiveness of BMP's required on-site. **Status:** Bi-monthly sampling began in January 2021. Sample collection has ceased due to lack of access to site locations.
- 3. Port Royal Redevelopment:** The Town of Port Royal continues with WQ monitoring for the four sites in the proposed redevelopment area. The sampling schedule is quarterly wet events and is included in Beaufort County's Monitoring Plan. **Status:** Fourth quarter has begun on October 1, 2022.

Town of Bluffton

USCB/Town of Bluffton MOU: An amendment to agreement #2012-17 on July 16, 2021, to extend term to 6/30/23.

Amendment #4: Fully executed on 7/22/22 allowing Danielle Mickel to be CO-Principal Investigator and now Lead Principal Investigator of grant contract with Dr. Alan Warren's departure.

Monitoring for 2022 includes monitoring for the following categories: MS4, TMDL, Monthly, MST, CIP, MRWAP and shared locations. Also, sample collection began for Bridge Street sites for wet weather. **Status:** Flow contractor suggested collecting microbiology samples during storm events at 4 locations over the next 6 months. Monitoring for 2022 began with additional sampling sites and increased frequency of 2X a month.

Special Project: A 319-grant funded BMP to be tested by conducting a simulation and dye study at the proposed BMP location. Town of Bluffton is working out the logistics of project.

USCB Water Quality Laboratory

Palmetto Bluff: FY 2022 sampling efforts are 12x/year for 6 wet/6 dry events including the additional parameters requested by Town of Bluffton. **Status:** Continued collection.

2022 Proficiency testing for the Water Pollution and Water Supply study: Annual PT testing required for all certified laboratory parameters to uphold certification. This study consists of 10 different analyses requiring the analysis of an unknown sample, which is then reported to the PT provider and the State. The passing of all analyses in the study is a requirement to keep laboratory state certification. **Status:** PT studies for all parameters have passed.

Standard Operating Procedures and Quality Assurance Manual: Annual update of these documents in its entirety are required to uphold State laboratory certification. **Status:** All SOP's and QAM updated.

SCDHEC Tri-annual audit: Prepping for SCDHEC laboratory certification audit for all certified methods. SCDHEC requires designation of a Lab Director for laboratory and for correspondence. Danielle Mickel as designated Lab Director.

Purchases: New in-situ instrumentation purchased due to old instrumentation being obsolete and repair costs outweigh worth. New instrument is proposed to arrive 8-10 weeks after July 2022. **Status:** We are still waiting on instrument to arrive.



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, December 14th, 2022, 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 19th, 2022 ([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 – Julianna Corbin ([backup](#))
 - E. Upcoming Professional Contracts Report – Julianna Corbin ([backup](#))
 - F. Regional Coordination – Katie Herrera ([backup](#))
 - G. Municipal Reports – Katie Herrera ([backup](#))
 - H. MS4 Update – Katie Herrera([backup](#))
 - I. Staff Update – Katie Herrera ([backup](#))
 - J. Maintenance Projects Report – Matthew Rausch ([backup](#))
 - K. Liaison Report - Ms. Alice Howard
5. UNFINISHED BUSINESS
6. NEW BUSINESS
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
- A. Wednesday, February 15TH 2023 ([backup](#))
9. ADJOURNMENT

