



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

February 15, 2023

Stormwater Utility Board Packet

Table of Contents

1. Beaufort County Stormwater Manager Report – [Attached](#)
2. Stormwater Projects Report – [Attached](#)
3. Draft December Minutes – [Attached](#)
4. 4.19.2023 Agenda – [Attached](#)



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, February 15th, 2023, 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 – December 14th, 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. Regional Coordination – Katie Herrera ([backup](#))
- E. Municipal Reports – Katie Herrera ([backup](#))
- F. Stormwater Related Projects – Julianna Corbin ([backup](#))
- G. Professional Contracts Report – Julianna Corbin ([backup](#))
- H. MS4 Update – Julianna Corbin ([backup](#))
- I. Staff Update – Julianna Corbin ([backup](#))
- J. Maintenance Projects Report – Matthew Rausch ([backup](#))
- K. Liaison Report - Ms. Alice Howard

5. UNFINISHED BUSINESS

- A. Update on Land Swap agreement – Katie Herrera

6. NEW BUSINESS

- A. TY23 Management Memo – Katie Herrera
- B. FY24 Budget – Carolyn Wallace

7. PUBLIC COMMENT

8. NEXT MEETING AGENDA

- A. Wednesday, April 19TH 2023 ([backup](#))

9. ADJOURNMENT





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

December 14th, 2022 at 2:00 p.m.
Beaufort County Council Chambers

Board Members

Ex-Officio Members

Present

Absent

Present

Absent

Marc Feinberg
Ron Buchanan
James Clark
Dennis Ross
Ed Warner
Patrick Mitchell

Steven Andrews

Nate Farrow
Van Willis

Jeff Netzinger
Bill Baugher

Beaufort County Staff

Visitors

Present

Absent

Katie Herrera
Neil Desai
Julianna Corbin
Jon Spencer
Carolyn Wallace
Matt Rausch

Jacob Terry
Ellen Sturup Comeau, Clemson Extension
Crystal Muller, Woolpert Inc.
Terri Aigner, St. Helena resident
Patty Wilson, ROW
Jimmy Pope, St. Helena resident

- 1. Meeting called to order** – Mr. Marc Feinberg at 2:00 pm
 - A. Agenda – Approved
 - B. Approval of Minutes – Approved.
- 2. Introductions** – Completed.
 - ✓ Mr. Marc Feinberg welcomed everyone to the meeting.
- 3. Public Comment(s)** – Comments made by St. Helena resident.
- 4. Special Presentations** – Crystal Mueller, Woolpert Inc. Watershed Study

5.Reports

A. Utility Update – Mrs. Katie Herrera

- ✓ 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.
 - 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.
- ✓ Special presentation suggestions –
- ✓ 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 reports 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. Katie Herrera

- ✓ Mrs. Herrera spoke on the subject briefly.

- ✓ Both the County and the Town has denied the request of USCB to have a lab manager take over Ms. Danielle Mickel’s position. No response from USCB was provided.

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

- ✓ No report at time of meeting.

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 – Instructions from SCDOT to use SC unit hydrograph method will expand scope and impact model. Scope and Fee for project management approved, staff awaits task order 1 scope.

- ✓ 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 – Project deferred to FY24.

- ✓ Huspah Court North and Bessie’s Lane – One contractor responded to RFQ and contracting process has been initiated.

- ✓ Arthur Horne Park – The final Preliminary Investigatory Feasibility Report (PIFR) was signed for approval by the State Conservationist on October 11. The project is fourth in the State Agency Priority Rating. Planning Efforts with federal contractors will begin next.

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 – Punch list was issued to contractor on September 20. Erosion has undermined the emergency outfall of the pond and correction requires a larger mobilization from the contractor. Grand opening event will be scheduled when updates by others are complete.
- ✓ Evergreen Regional Pond 319 grant project – (Design=\$89,286, Construction=\$590,000. Grant=\$229,124) – Project passed closeout with Town of Bluffton on November 22. Public meeting to fulfill grant requirement was held on November 18.
- ✓ 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 2021. 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, etc. 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 –Project complete.
 - Scope #6 – Turtle Lane drainage study. 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 –Scope completed.
 - Scope #10 – Lady’s Island Drainage Study Phase I – Woolpert presented preliminary modeling data to staff on November 17.
- ✓ Scopes on County and Woolpert Radar:
 - Mint Farm and Rivers End Water Quality Retrofits

F. Regional Coordination

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

G. Municipal Reports

- ✓ Town of Hilton Head Island (From Jeff Netzinger, Stormwater Manager and Brian Eber, MS4 Coordinator)
 - No information was available at time of report.
- ✓ Town of Bluffton (From Kim Jones, Watershed Management Division Director)
 - See attached Report.
- ✓ City of Beaufort (From Nate Farrow, Public Works Director)
 - No information was available at the time of this report.
- ✓ Town of Port Royal (From Van Willis, Town Manager and Tony Maglione, consultant)
 - No information was available at the time of this report.

H. MS4 Report – Mrs. Katie Herrera

- ✓ Plan Review

- ✓ Stormwater Permits
- ✓ Monthly Inspection Summary
 - New permitting fees based on regional comparison within the municipalities of Beaufort County.
- ✓ Public Education – Mrs. Ellen Comeau
 - There has been an increase in home visits and phone calls; particular in the Sea Island areas.
 - Beginning the process of creating a manual based on the South Carolina ‘Adopted Stream Program.’
- ✓ MS4 Statewide General permit – Katie Herrera

I. Staff Update

- ✓ Senior Stormwater Inspector position is expected to be fulfilled on Jan. 3.

J. Maintenance Report

- ✓ Five major projects in the St. Helena area with a total cost of \$174,057.40.
- ✓ Various other maintenance projects throughout the county totaling \$208,559.09.

K. Liaison Report – Beaufort County Council – Katie Herrera

Highlights

- ✓ In the process of proposing a land swap to be approved for procurement between Evergreen and New Leaf property. The Stormwater Utility fund help fund those properties.

6. Unfinished Business

7. New Business

- ✓ Mrs. Katie Herrera – Next Year’s Schedule

8. Public Comment

- ✓ Terri Aigner – Flooding Concerns on St. Helena Island

9. Next Meeting Agenda

- ✓ Approved

10. Meeting Adjourned



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



January 2023

Manager Report

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.
 - Amendments to the SoLoCo manual for adoption were approved at the 1/23/23 County Council meeting.
 - b) Staff continues to support other municipalities in their efforts to move forward with adoption.
3. Special presentation suggestions
 - a) Brewer Memorial Park – Spring 2023
4. Reminder: Annual Financial report from the Municipalities is 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.

Monitoring Update

1. Lab Update (From Lab Manager Danielle Mickel)
 - i. [See attached report.](#)

Stormwater Implementation Committee (SWIC) Report

1. Staff working on FY24 Budget, which includes cost share items. SWIC items to be provided by 2/15/2023 per IGAs.

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

Regional Coordination

1. See “Stormwater Related Projects” item #9.

Municipal Reports

1. Town of Hilton Head Island (From Jeff Netzing, Stormwater Manager)
 - 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.

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. Edits to the Extent of Service and Level of Service documents pending Council guidance prior to finalization
2. Complaints – Staff continually works numerous drainage related complaints each month.
 - a) Shell Point Community – The intergovernmental agreement with SCDOT was uploaded for Beaufort County legal review on January 24. Environmental survey scope and fee was approved on January 25 and surveyors are to commence imminently.
3. Factory Creek Watershed Regional Detention Basin “Phase II” –Staff is preparing to take legal action.
4. Graves Property / Pepper Hall Public / private partnership – County stormwater obligations have been completed.
5. Whitehall property purchase – Construction continues on City property.
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 and Bessie’s Lane, On Call Stormwater infrastructure services
 - a) Huspah Court materials have been ordered. Pipe was delivered January 30 and junction boxes are expected in 12-14 weeks. JH Hiers is preparing estimate

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

- b) Bessies Lane – site visit scheduled for 2/7. JH Hiers is preparing estimate
- 9. Arthur Horne Park- No update since last report - The final Preliminary Investigatory Feasibility Report (PIFR) was signed for approval by the State Conservationist on October 11. The project is fourth in the State Agency Priority Rating. Planning Efforts with federal contractors will begin next.

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 – Irrigation issues at the park were scheduled for repair in January.
- 2. Stormwater engineering consulting services – Woolpert
 - a) Scope #4 – Tax Run and Utility assistance. In the event the County needs 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.
 - b) Scope #8 – St. Helena Drainage Study. Final report draft received 6/30. Allocated funds – \$129,525.00
 - c) Scope #11 – Northern Lady’s Island Drainage Study Phase II - Woolpert continues to QA/QC the model results and produce the report. Allocated funds – \$213,650.00
 - d) Scope #12 – Water quality monitoring station and rain gauge at Okatie River headwaters. Allocated funds - \$58,804.15
 - e) Scope #13 – NPDES SMS4 general permit assistance 2023. Allocated funds - \$40,000.00.
 - f) Scope #14 – Rivers End Water Quality Improvements – Data compilation, stormwater inventory and survey, potential BMP identification, Model development, alternatives analysis, and drainage report. Allocated funds - \$174,465.00. Pending Approval.

Scopes on County and Woolpert Radar:

- 1. Mint Farm Water Quality Retrofits

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.

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

4. Public Education – Unavailable at time of report.
5. Energov permitting software – No update at this time.
6. MS4 Statewide General permit – No update at this time.

Staff Update

1. Interviewing for all vacancies.

TOWN COUNCIL



STAFF REPORT

Projects and Watershed Resilience Department

MEETING DATE:	February 14, 2023
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

- SCDOT has closed out the project.
- **Next Steps**
 - Complete additional services to clean up ditches and outfall along Shults Road.

2. Buck Island-Simmons ville Neighborhood Sidewalks and Lighting

- Phase 5 street lighting easement acquisition process is underway. Obtained Just Compensation approval at November Town Council meeting to begin condemnation.
- Phase 6A along Simmons ville Road from Grayco northward to Sugaree Drive is complete and waiting on DOT closeout.
- Phase 6B along Simmons ville Road from Sugaree Drive northward to the existing New Mustang Road: Engineering design and permitting for this final sidewalk phase is complete. Bid solicitation closed 10/18/22 with no bids received. Per procurement protocol, Staff has obtained quotes from additional contractors.
- **Next Steps**
 - Prepare and obtain streetlight easements and begin condemnation process for remaining Phase 5 street lighting easements.
 - Obtain SCDOT Permit Closeout for Phase 6A sidewalks.
 - Complete Phase 6B contractor procurement.
 - 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).
 - Submit grant application to fund construction of restroom facilities due 2/10/23.
 - Submit plans to Santee Cooper for cursory review and cost share for bridge replacements.
 - Attorney to prepare easement for donation from Heritage at New Riverside near the Hwy 46 overpass.

SEWER & STORMWATER

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

- Construction has been halted on Phases 5A-D by BJWSA due to the contractor under-performing their job duties.
- Received permits to construct from DHEC.
- Posted a solicitation to construct.
- **Next Steps**
 - Bid closing on 2/3/23.
 - Start construction late Spring.

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.
- Received Quit Claim Deeds from all the property owners along the ghost road.
- Obtained road ownership from SCDOT.
- Readvertised for bids in conjunction with Historic District Sewer Extension Phase 3 and received one response which was much higher than anticipated.
- **Next Steps**
 - Negotiate drawing changes with BJWSA and adjust scope and/or price with lone bidder.
 - Select a contractor and start Construction and Phases 2 and 3.

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

- Received initial design for Phases 4, 5, & 6 and reviewed with the engineer.
- **Next Step**
 - Review Phases 4, 5, & 6 design changes to drawings.
 - Obtain Quit Claim Deeds from all the property owners along the ghost roads.
 - Requested Council assistance to obtain Quit Claim Deeds.

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

- Initial site investigations are pending due to ongoing Property Owner coordination and approval to access the Property for investigations Lowcountry Community Church.
- Palmetto Pointe Towns has declined to participate in Program at this time.
- Policy document for Impervious Restoration Program under formulation.
- Geotechnical investigations at 6 school sites were 12/20/22-1/4/23 and field results are under analysis. Met with School Board to discuss Impervious Restoration program and potential work elements for 6 identified sites.
- Initial site investigations have been completed.
- **Next Steps**
 - Continue property coordination for site access and site assessments/evaluations.
 - Proceed with geotechnical evaluations at the sites for which property owner approvals have been granted. Perform additional geotechnical testing and begin preliminary site design.
 - Review Policy Document of similar intent nationwide and Initial Policy Document DRAFT has been completed, reviewed and comments provided.

5. Buck Island Drainage Improvements

- A contract was executed on 11/18/22.
- Construction is 80% complete.
- **Next Steps**
 - Further work is pending BJWSA approval of 10" water main relocation/lowering requirements. Upon BJWSA approval remaining work will be scheduled and performed to include 10" water main lowering, completion of pipe installation, road restoration grading and stabilization. Current estimates from BJWSA for approval is approximately 4 weeks.
 - Remaining work will be performed via lane closure and not road closure.

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**
 - Install streetlights on the west side of the street in FY 2023. Coordinate conduit and light installation for the east side of the street in conjunction with larger streetscape project.

2. Squire Pope Carriage House Preservation

- Initial \$215,000.00 ATAX funding was approved in March 2022. A second \$457,026.00 ATAX funding request was recommended for approval by the ATAX committee on 11/15/22.
- Stabilization has been completed.
- Contract with Huss Inc. has been executed.
- Held kickoff meeting with Huss Inc and began construction on 1/16/23.
- Construction groundbreaking held on 2/4/23.
- **Next Steps**
 - Selective demo and preservation of existing materials to be repurposed.

3. Bridge Street Streetscape

- Issued Notice to Proceed for Phase I construction to start 12/5/22.
- Nearly \$50,000 additional 319 Grant money was awarded by DHEC in support of the project.
- Obtained survey proposal for Phase II streetscape project.
- **Next Steps**
 - Continue construction of Phase I and complete in Summer 2023.
 - Drainage 80%, parking 50%, IT conduit and pull boxes 50%, lighting 5%
 - Obtain engineering proposal and begin Phase II design.

4. Boundary Street Streetscape

- Engineering Design is 70% complete and submitted to Watershed for stormwater for initial review.
- Submitted contract amendment to TC to complete engineering design and permitting.
- **Next Steps**
 - Continue with Engineering Design and Permitting.
 - Obtain easement exhibits and begin appraisals in FY 2023.
 - Bid construction in FY 2024

5. Calhoun Street Streetscape

- Surveying is complete and preliminary engineering design is 50% complete.
- **Next Steps**
 - Continue engineering design into FY 2023.
 - Prepare easement acquisition plats for Phase 1 in March 2023.
 - Phased construction is planned to begin in FY 2025 pending budget approval.

6. Pathway Pedestrian Safety Improvements

- Completed Historic District crosswalk study identifying and prioritizing future intersection/crosswalk improvements to meet ADA compliance.
- Phase 1 ADA sidewalk improvements along Goethe Road were completed in January.
- **Next Steps**
 - Phase 2 design proposal under review.

7. Historic District Comprehensive Drainage Plan Improvements

- Review of Phase 1 updated asset inventory and condition assessment information is complete.
- 2D H/H model development complete and under review.
- Tidal Gauge information at Calhoun St Dock being gathered through 2022.
- **Next Steps**
 - Review 2D H/H model development results and area of inundation, choke points and establish maintenance and project needs to reduce risk of flooding.

8. Pritchard Street Drainage Improvements

- Cranston Engineering submitted 70% design submission.
- 319 Grant Award of \$124,577.00 received and executed.
- Barrier Island Engineering completed 3rd party evaluation of drainage claims and complaints associated with 40 Pritchard Street. Concept plan of potential on-site drainage improvements to be performed by the homeowner to reduce the risk of flooding for his property has been presented and discussed with property owner.
- **Next Steps**
 - Coordinate approval for proposed improvements with Beaufort County School District.
 - Complete 70% design submission review.
 - Internal discussions for Final project scope and potential Streetscape elements to be held and finalized.

PARK DEVELOPMENT

1. Oyster Factory Park

- Executed contract with JS Construction for parking expansion.
- Executed Task Authorization with Witmer, Jones, Keefer for design of the event area.
- Construction of parking area to begin in February 2023.
- **Next Steps**
 - Design of Phase 3 signage for Garvin/Garvey house underway. Signage and exhibits to be complete in February 2023.
 - Begin design of Oyster Factory Park cookout area in FY 2023.

2. Oscar Frazier Park

- Began design of FY 2023 improvements including hardscape near the Rotary Center, sport courts and splash pad.
- Submitted conceptual plans at Quarterly Workshop and obtained Town Council input.
- Sent sport court alternatives to Bluffton Park HOA for review and selection of preferred option.
- **Next Steps**
 - Complete conceptual designs of hardscape plan and bid in the Spring 2023.
 - Complete design of splash pad in FY 2023.

3. **New Riverside Barn/Park**

- A \$500,000.00 grant was approved for partial funding of the initial phase of the project.
- Engineering design, permitting and bidding of phase 1 site development is complete.
- Construction documents for the restroom building are complete.
- Executed contract for architectural design services for the Barn additions.
- Executed phase 1 Site Development contract with JS Construction.
- Executed contract with Wood & Partners for playground design services.
- Park Groundbreaking event held 1/25/23.
- **Next Steps**
 - Continue architectural design of barn addition.
 - Begin design of playground area in FY 2023.
 - Construction of Phase 1 Site Development Infrastructure will begin in January 2023.

4. **Miscellaneous Park Improvements**

- Began design and cost estimating of playground improvements at DuBois Park.
- **Next Steps**
 - Presented proposed DuBois Park playground improvements at the October Workshop and TC requested staff to explore additional playground equipment alternatives. Continue with the design of FY 2023 playground improvements.

TOWN FACILITIES AND MISCELLANEOUS PLANNING

1. **Rotary Community Center Facility Improvements**

- Completed floor replacement in August 2022.
- **Next Steps**
 - Request funding for floor/crawl space insulation replacement and interior trim work in FY 2024.

2. **Town of Bluffton Housing Projects**

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

3. **Law Enforcement Center Facility Improvements**

- Initial scope of work of the parking/service yard, and covered sheds are complete.
- Design for the challenge course is complete and under construction. Clearing is complete.
- Reflection Plaza construction is complete. Reflection Plaza dedication ceremony on 1/12/23.
- **Next Steps**
 - Install permanent signage at Reflection Plaza.
 - Complete construction with The Greenery for the challenge course.

4. Sarah Riley Hooks Cottage

- Obtained conceptual master plan concepts from JK Tiller.
- Prepared questionnaire for stakeholder input and distributed at the Art and Seafood Festival and online.
- Obtained Structural Assessment Report from Meadors Inc. to determine feasibility of the cottage and discussed a path forward with Council at 1/10/23 meeting.
- Termite treatment completed on 1/22/23.
- **Next Steps**
 - Complete Master Plan and continue obtaining public input for potential uses for the park to discuss with Council at the April Quarterly Workshop.

5. 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 Council to obtain Lawrence, Lawton, Green Pope, Allen and Water Street Quit Claim Deeds.
- Staff continues to meet with property owners to raise awareness of the acquisition efforts and communicate next steps.
- Executed contracts with Easement Acquisition Consultants to assist with Ghost Roads not associated with Historic District sewer projects as staff has initiated these acquisitions.
- **Next Steps**
 - Obtain remaining Quit Claim Deeds documentation from legal and continue meeting with property owners.
 - Complete kick-off meetings with Easement Acquisition Consultants.

6. Document Management

- RFP contract was awarded in March 2022.
- Electronic Document Management system is live.
- **Next Steps:**
 - Historical documents began being moved in July, 2022 and continue through FY 2024.

7. 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. **Stoney Creek/Palmetto Bluff Sewer Partnership**
 - 2022 updated cost-estimate for the project from BJWSA is \$7.2 million + contingencies. BJWSA has agreed to be the Project Manager.
 - 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**
 - Await notification of grant application. Anticipated in January/February of 2023.
 - Procurement staff is developing a 3-party partnership to execute the project.
 - BJWSA to procure design engineer through bid as their procurement process will not permit them to use existing MSAs.

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

3. **May River Watershed Action Plan Implementation Summary - *Attachment 2***
 - Staff collected sixty (60) water quality samples from the Action Plan Update and Model Report study area and the Bluffton Historic District on 01/09/23. The Town is moving forward with procurement of goods and services and installation of SonTek IQ telemetry stations is anticipated in February 2023. Staff is coordinating with Water Environment Consultants (WEC) on requirements for model calibration and data needs. WEC will review data collected from telemetry stations in real time.
 - Staff deployed a HOBO-U20 water level logger at the Calhoun Street to collect tidal elevation data and staff intends to continue data collection at this location.

4. **Municipal Separate Storm Sewer System (MS4) Program Update**
 - The Town is drafting its MS4 Annual Report as required by SCDHEC.

5. **MS4 Minimum Control Measure (MCM) - #1 Public Education and Outreach, and MS4 MCM - #2 Public Participation and Involvement**
 - The May River Watershed Action Plan Advisory Committee meeting was held 01/26/23. ***Attachment 3***

6. **MS4 MCM – #3 Illicit Discharge Detection and Elimination**
 - Stormwater Infrastructure Inventory Map - ***Attachment 4a***
 - *E. coli* Concentrations Trend Map - ***Attachment 4b***
 - Monthly, Microbial Source Tracking (MST) Maps - ***Attachments 4c and 4d***
 - SC Department of Health and Environmental Control (SCDHEC) collects MST samples for the Town concurrently with their routine shellfish harvesting water quality sampling at stations 19-19, 19-19A, 19-19B, 19-19C, and 19-24. SCDHEC

conducted sampling 12/20/22 and no human genetic marker was detected.

SCDHEC collected samples on 01/24/23 and results will be shared upon receipt.

- Illicit Discharge Investigations – **Attachment 4e**
7. **MS4 MCM – #4 Construction Site Stormwater Runoff Control – Attachment 5**
 8. **MS4 MCM – #5 Stormwater Plan Review and Related Activity – Attachment 6**
 9. **MS4 MCM – #6 Good Housekeeping (Staff Training/Education)**
 - Staff received training from Beaufort County on the SoLoCo Compliance Calculator on 1/13/22.
 10. **MS4 MCM – #6 Good Housekeeping (Ditch, Drainage and Roadside Maintenance)**
 - Public Services performed weekly street sweeping on Calhoun Street, Highway 46, Bruin Road, May River Road, Pin Oak Street, and curbs and medians on Simonsville and Buck Island Roads.
 - Performed ditch inspections.
 - Arrow ditch (2,569 LF)
 - Red Cedar ditch (966 LF)
 - Buck Island roadside ditch (15,926 LF)
 - Simonsville roadside ditch (13,792 LF)
 - Ongoing roadside mowing, litter clean-up and maintenance of Masters' Way, McCracken Circle, Hampton Parkway, Buck Island and Simonsville Roads, Goethe Road, Shults Road, Jason and Able Streets, Whispering Pine Road, May River Road and Eagles Field.
 11. **Citizen Drainage, Maintenance, and Inspections Concerns Map – Attachment 7**
 12. **Citizen Request for Watershed Management Services & Activities – Attachment 8**

Attachments

1. SCDHEC Shellfish Harvesting Monitoring Data Year-to-Date
 - a. SCDHEC May River Shellfish Harvesting Status Exhibit
2. 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	33.0	22.0	49.0	49.0	140.0	17.0	4.5	17.0	33.0	4.5	17.0	49.0	13.0	4.0	6.8	6.8	110.0	11.0	7.8	13.0
November	17.0	70.0	33.0	33.0	6.8	31.0	33.0	13.0	7.8	17.0	7.8	7.8	11.0	13.0	4.0	4.5	4.5	13.0	4.5	6.1	2.0	4.5	2.0	13.0
October	7.8	49.0	49.0	23.0	4.5	79.0	26.0	46.0	2.0	31.0	13.0	13.0	4.5	21.0	23.0	23.0	1.8	33.0	23.0	11.0	2.0	79.0	17.0	14.0
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	40.0	23.0	21.0	26.0	28.0	16.0	16.0	18.0	18.0	14.0	12.0	15.0	14.0	10.0	10.0	10.0	9.0	7.0	9.0	8.0	9.0
** Truncated 90th Percentile	168.0	106.0	139.0	192.0	89.0	59.0	69.0	91.0	63.0	50.0	58.0	72.0	52.0	37.0	39.0	54.0	38.0	31.0	35.0	41.0	32.0	35.0	33.0	32.0

NS = No Sample

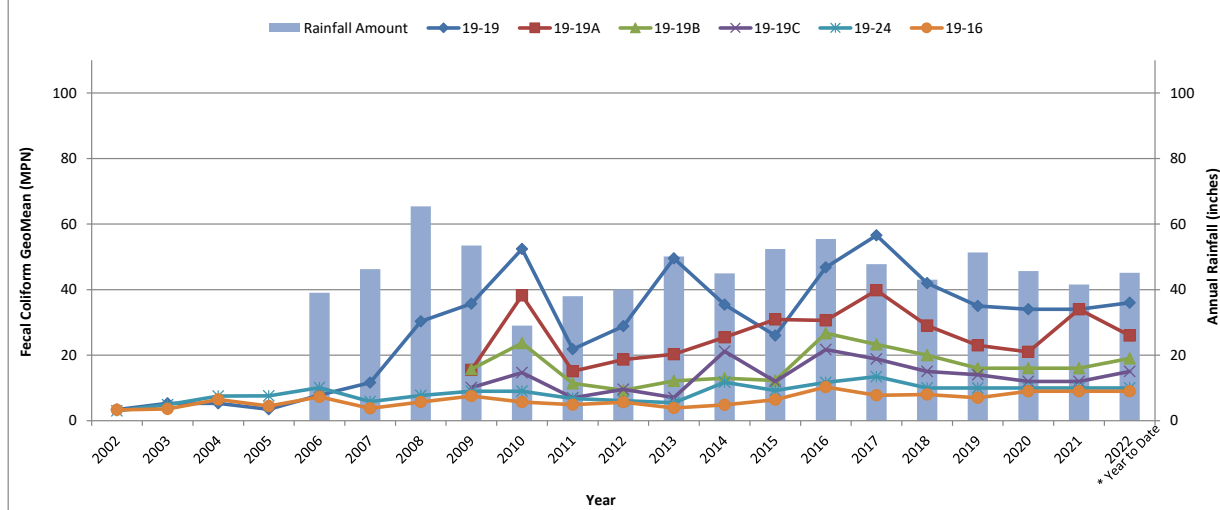
SCDHEC Regulatory Requirements:

Geometric Mean ≤ 14

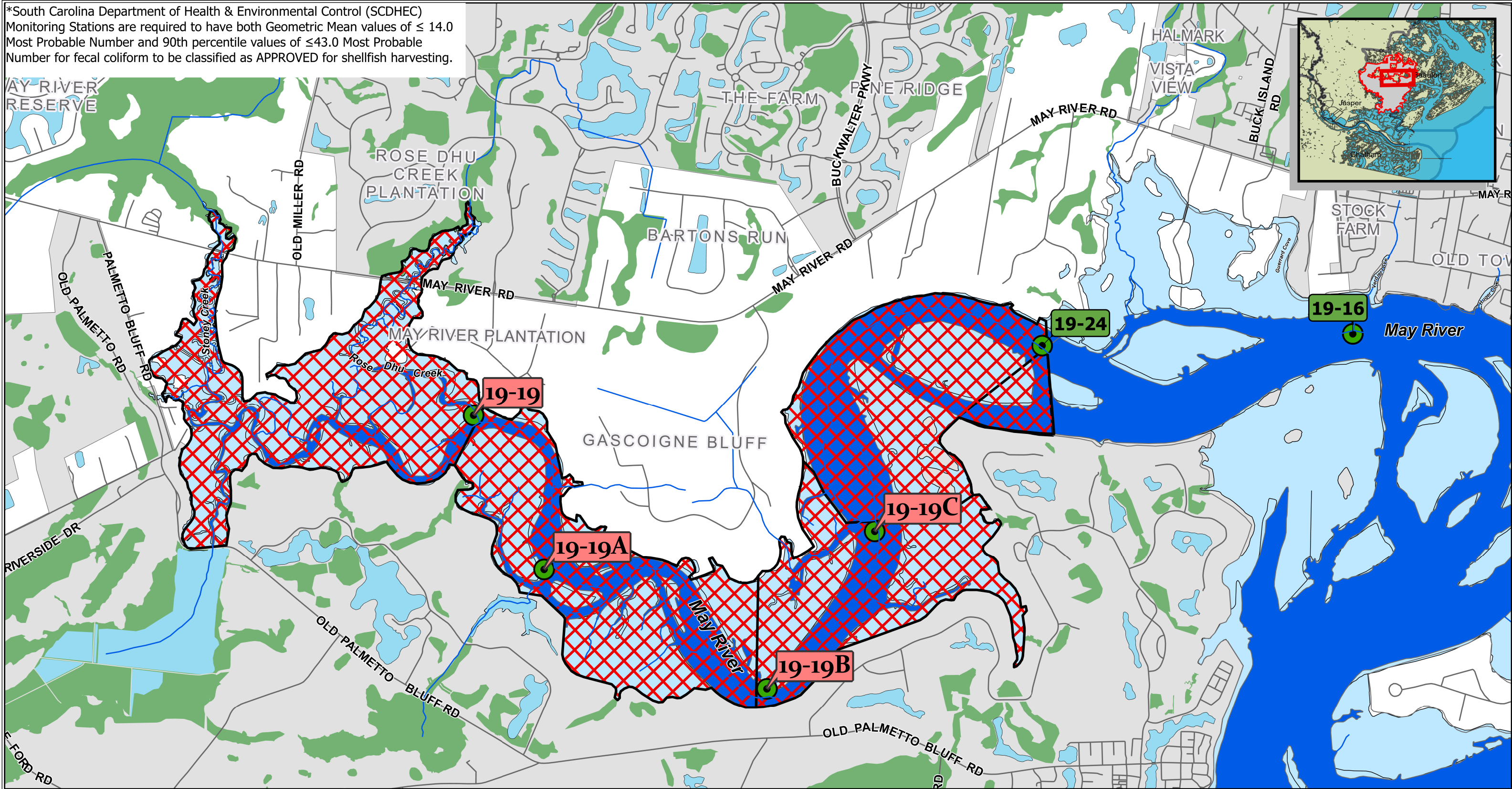
90th Percentile ≤ 43

** Town staff calculations utilizing SCDHEC statistics

SCDHEC May River Headwaters Shellfish Stations Average Annual Fecal Coliform




*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.



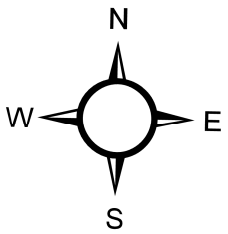
- SCDHEC Shellfish Monitoring Stations
- Restricted 2022/2023 Shellfish Season
 - Open SCDHEC Shellfish Monitoring Stations
 - SCDHEC Shellfish Monitoring Station Classification Change
 - Streets
 - Drainage
 - Town Jurisdiction
 - County Jurisdiction
 - Water
 - Wetlands

Town of Bluffton
Beaufort County, SC

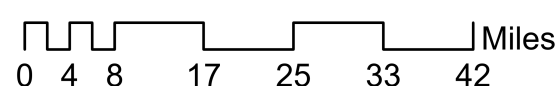
SCDHEC SHELLFISH HARVESTING STATUS



EST. 1825



N
W E
S



0 4 8 17 25 33 42 Miles

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:

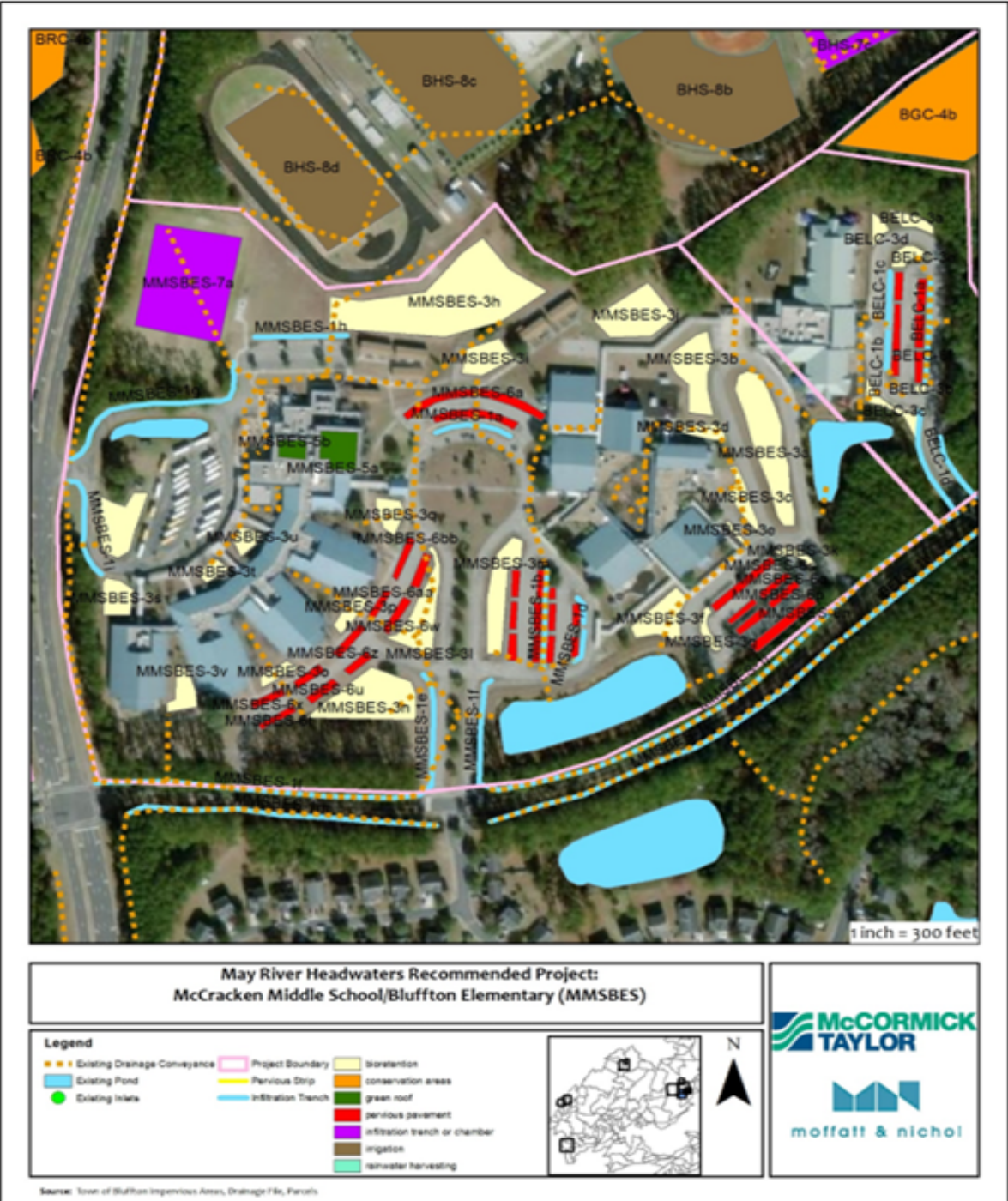


Figure 52. McCracken Middle School/Bluffton Elementary School Proposed Stormwater BMP Retrofits

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, January 26, 2023 at 9:00 AM

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

AGENDA

- I. **CALL TO ORDER**
- II. **ROLL CALL AND CONFIRMATION OF QUORUM**
- III. **ADOPTION OF THE AGENDA**
- IV. **ADOPTION OF MINUTES**
- V. **PUBLIC COMMENTS**
- VI. **OLD BUSINESS**
 1. Adoption of 2023 Meeting Dates and Times - Beth Lewis, Water Quality Program Administrator
 2. Strategic Priority four (4), to Develop a Town Policy and Program with Clear Structure, Identified and Formalized Organizational Collaborations, and Goals for Green Space or Preservation Area Acquisition, and/or Retirement of Development Rights Memo to Town Council
- VII. **NEW BUSINESS**
- VIII. **DISCUSSION**
- IX. **ADJOURNMENT**

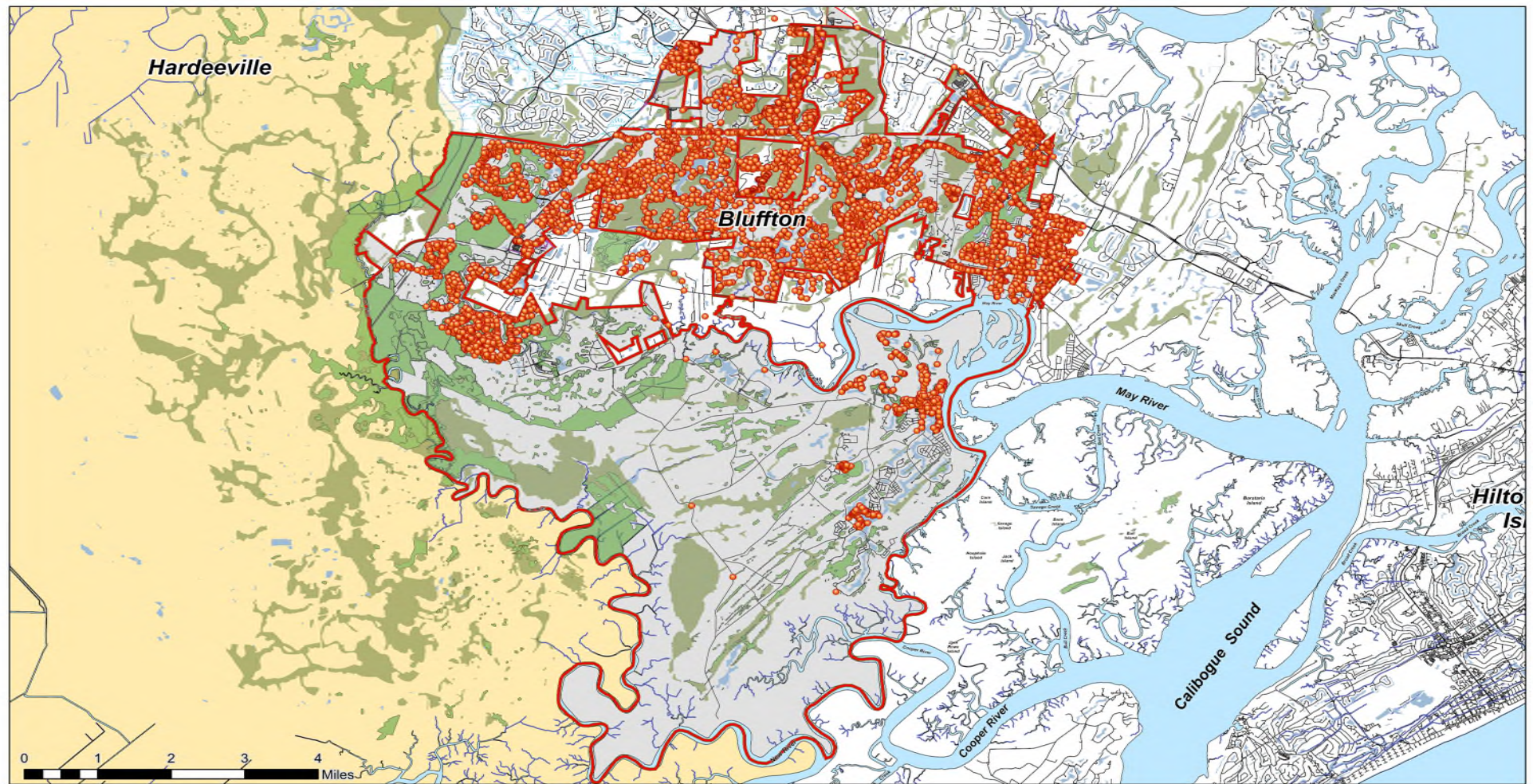
NEXT MEETING DATE: Proposed February 23, 2023 - Time TBD

"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 TOWN OF BLUFFTON WETLAND
 SW PIPE BEAUFORT COUNTY WATER
 JASPER COUNTY ROADS

Town of Bluffton
 Beaufort County, SC
STORMWATER INFRASTRUCTURE

INCLUDES:
 All stormwater structures and pipes within the Town of Bluffton, Beaufort County, SC, that are subject to the MS4 Minimum Control Measure #3 – IDDE (Illicit Discharge Detection & Elimination) program. This inventory was conducted in accordance with the requirements of the MS4 Minimum Control Measure #3 – IDDE (Illicit Discharge Detection & Elimination) program, as outlined in the MS4 Minimum Control Measure #3 – IDDE (Illicit Discharge Detection & Elimination) program manual. The inventory was conducted by the Town of Bluffton, Beaufort County, SC, and is intended to provide a comprehensive list of all stormwater structures and pipes within the town's jurisdiction. The inventory was updated on 1/23/2023.

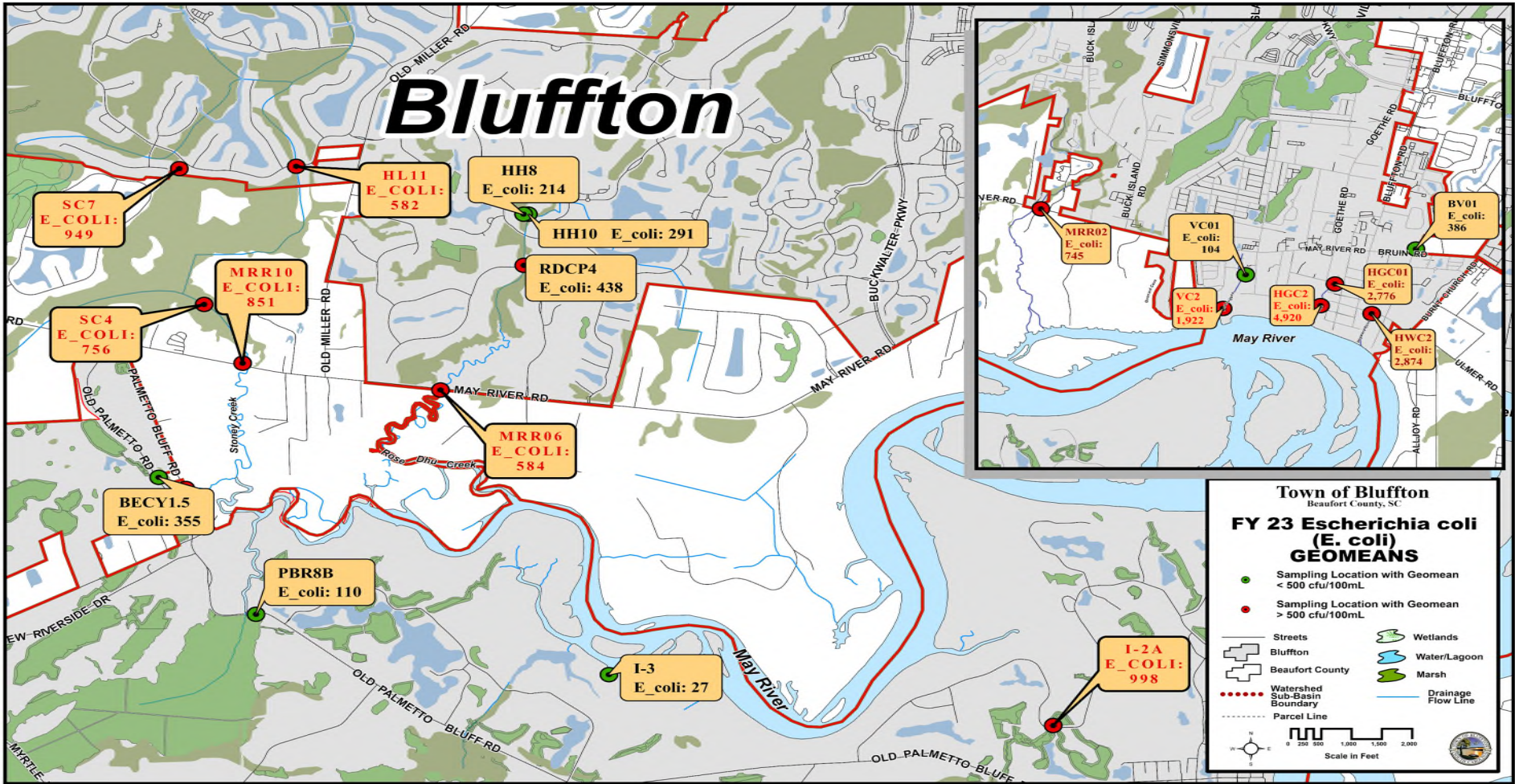



Updated Date: 1/23/2023

Stormwater Infrastructure Inventory Collection Status

Collection Totals	16,657
FY 2023 YTD Collection Totals	2,341
FY 2022 Collection Totals	2705

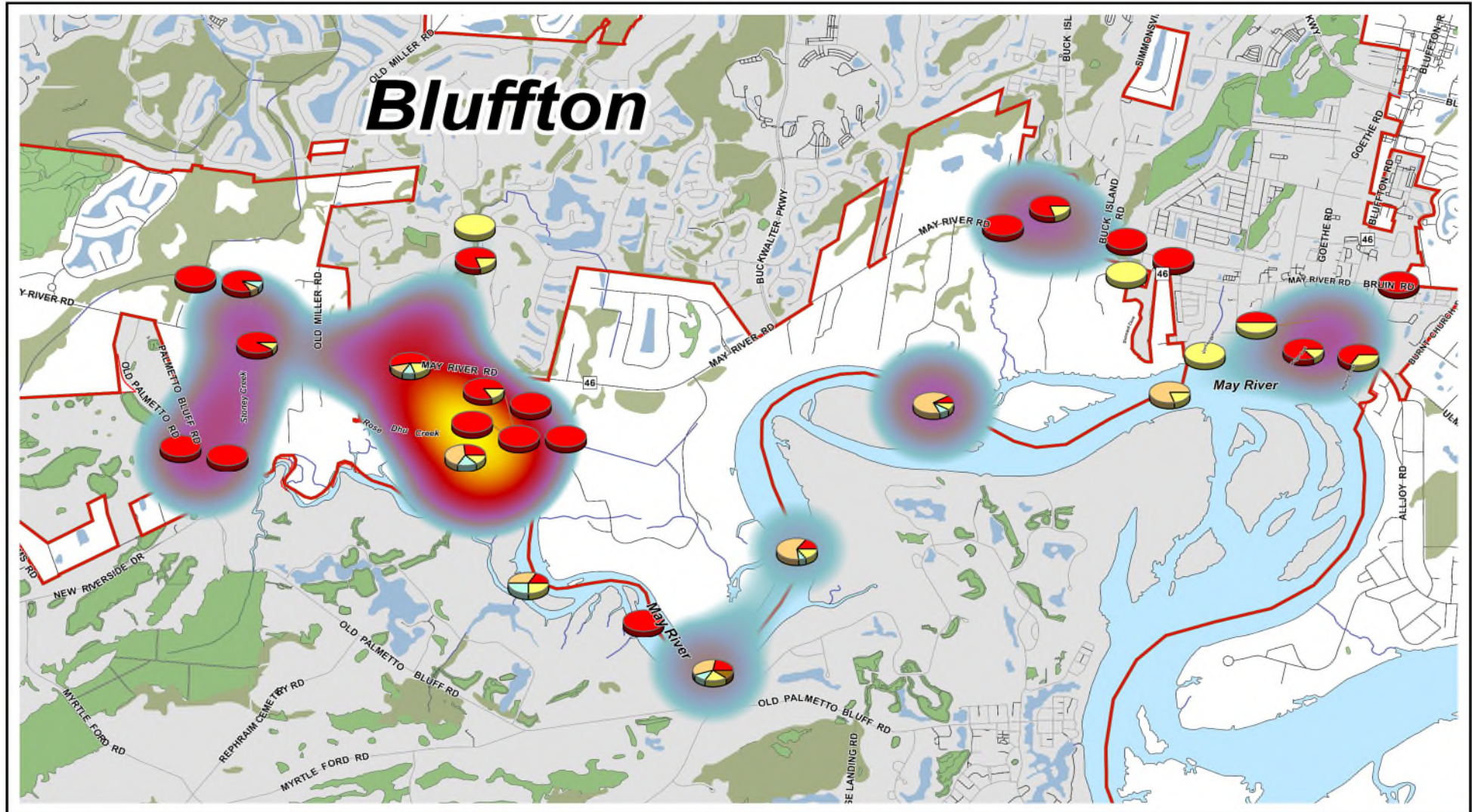
MS4 Minimum Control Measure #3 – IDDE: *E. coli* Concentrations Trend Map



	USCB Water Quality Samples	Microbial Source Tracking Samples	MS4 Quarterly Samples Collected
FY 2023 YTD Totals	364	54	36
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

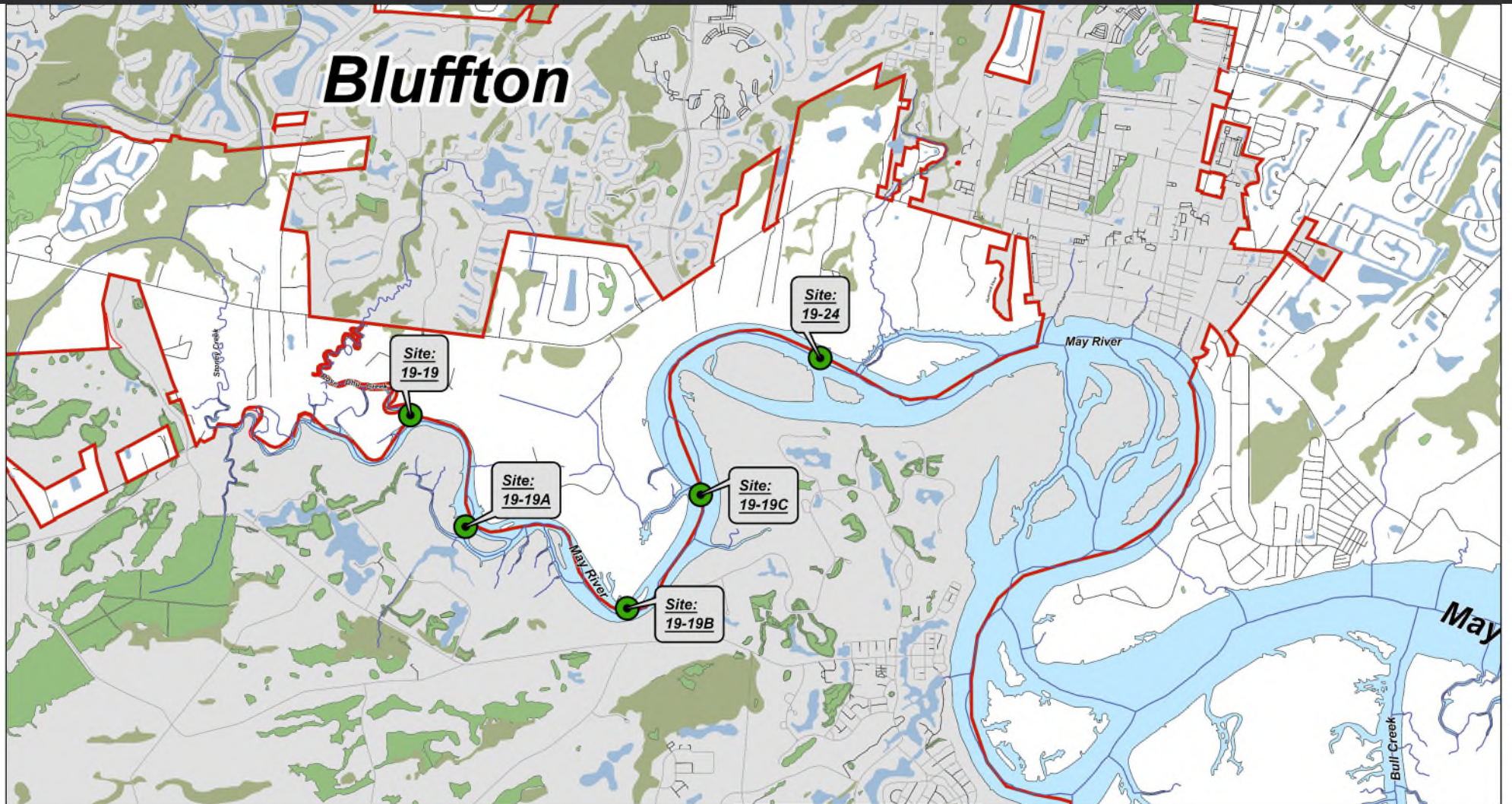
Town of Bluffton
Beaufort County, SC

- Town Jurisdiction
- Beaufort County
- Drainage Flow Lines

Updated Date: 1/23/2023

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

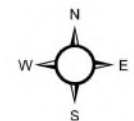


- MST Sampling Location Without Detection
- MST Sampling Location With Detection
- Flowline
- Street
- ☐ Town Jurisdiction
- ☐ County Jurisdiction

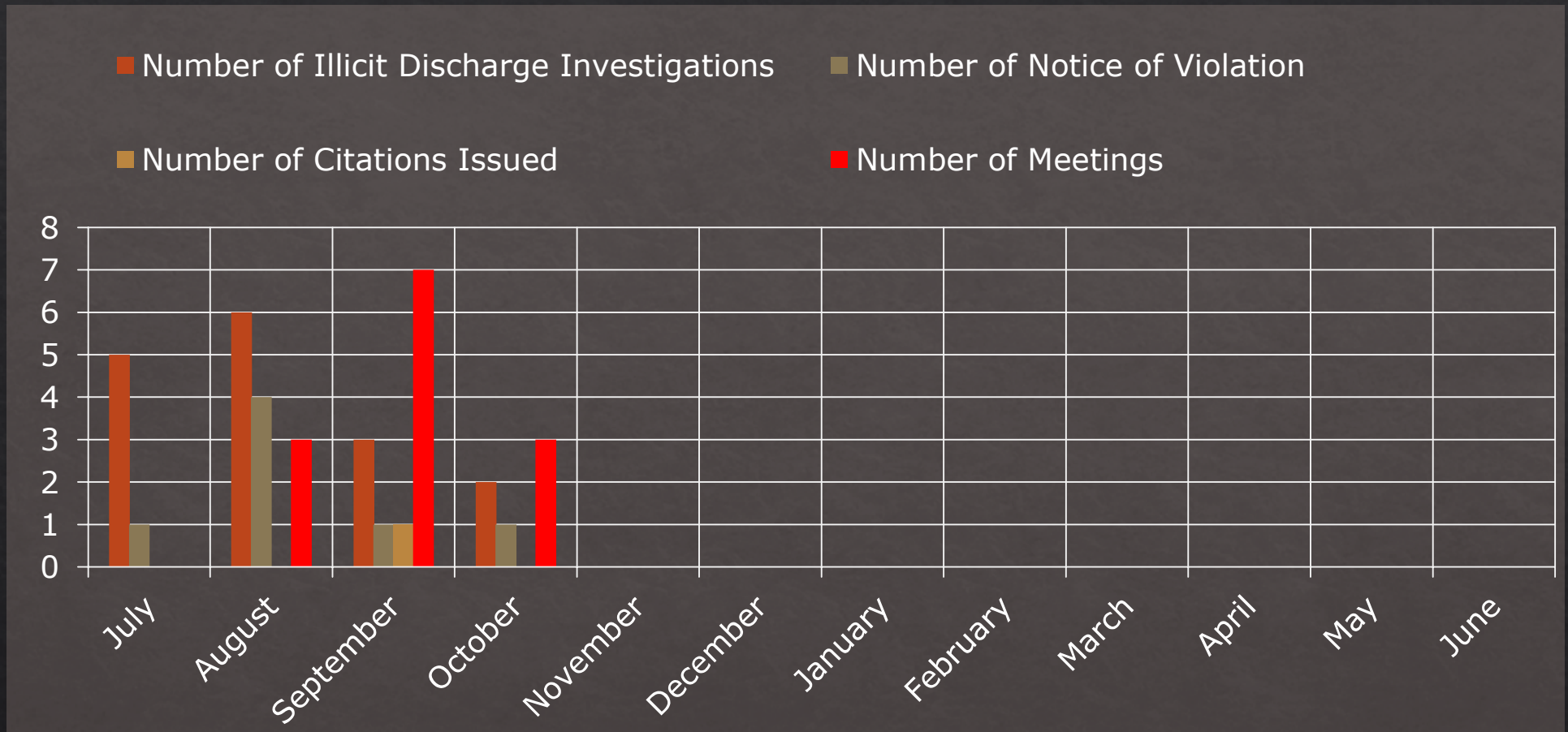
MICROBIAL SOURCE TRACKING LOCATIONS

Sampling Results December 2022

Town of Bluffton
Beaufort County, SC

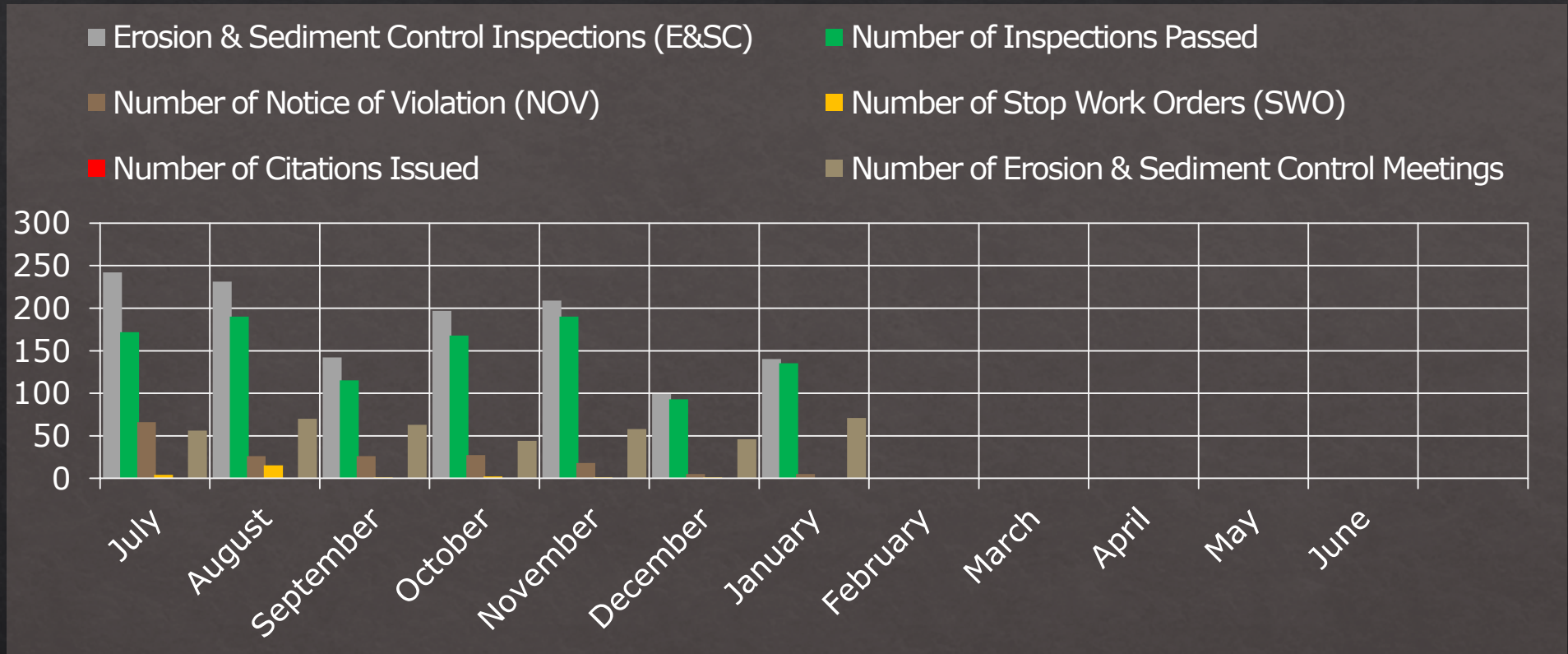


MS4 Minimum Control Measure #3 – IDDE: Illicit Discharge Investigations



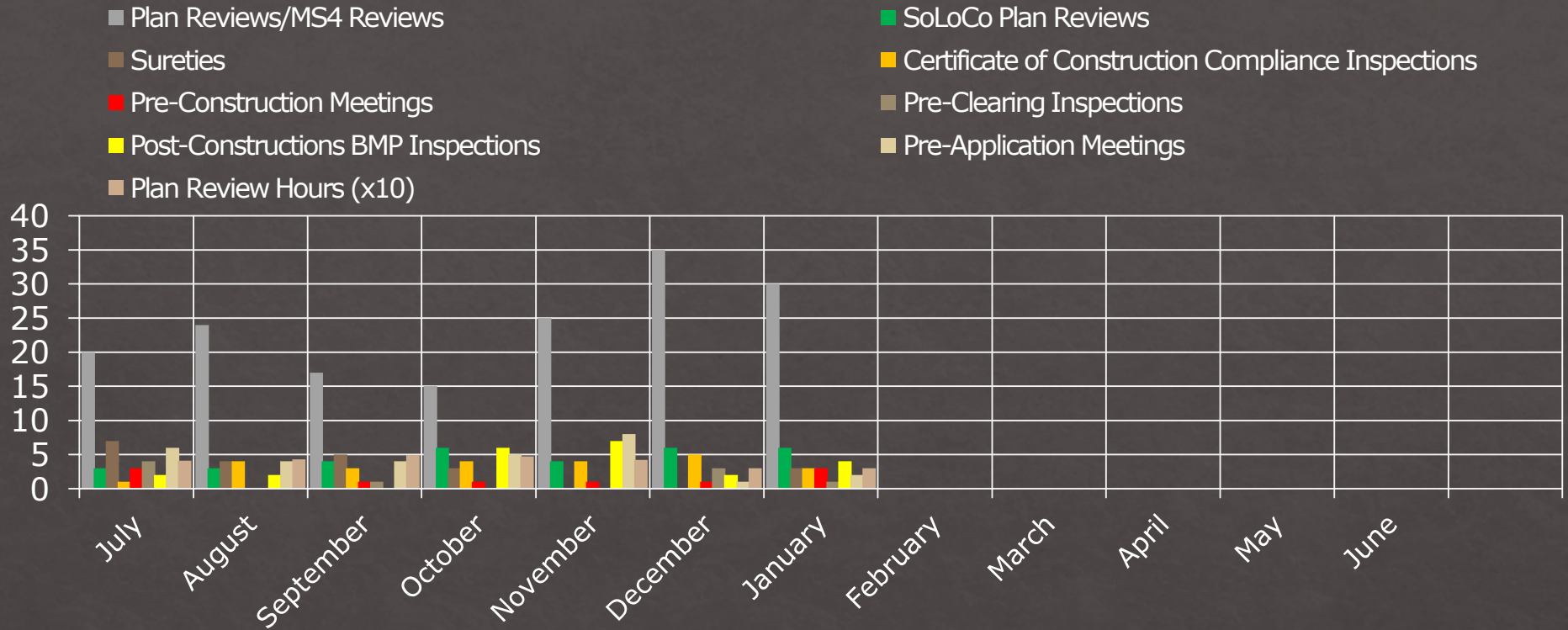
	Number of Illicit Discharge Investigations	Number of Notices of Violation Issued	Number of Citations Issued	Number of Meetings
FY 2023 YTD Totals	16	7	1	13
FY 2022 Totals	30	5	3	17
FY 2021 Totals	36	11	1	29

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



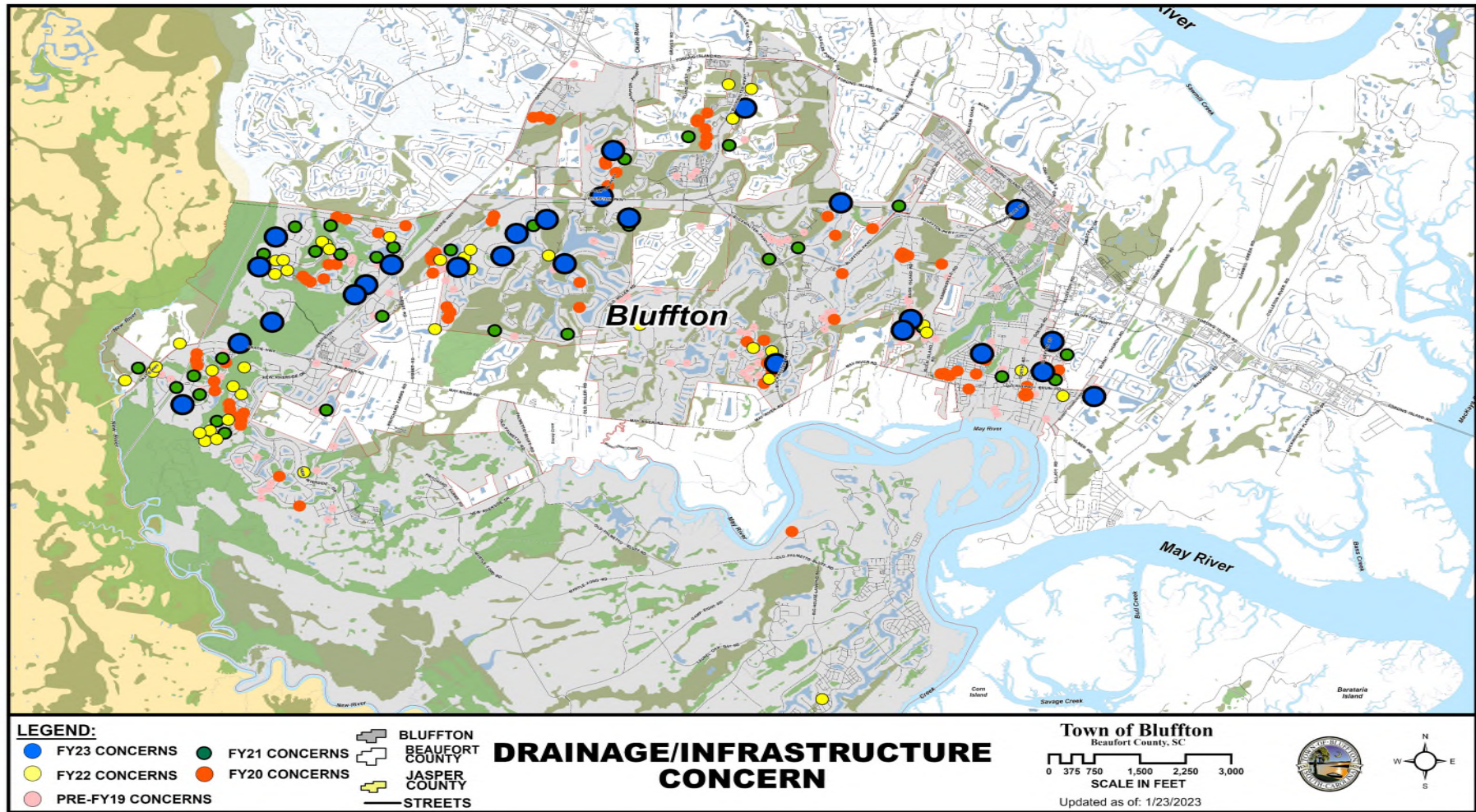
	Number of Sediment & Erosion Control Inspections	Number of Inspections Passed	Number of NOVs Issued	Number of SWO Issued	Number of Citations Issued	Number of E&SC Meetings
FY 23 YTD Totals	1260	1063	173	24	0	408
FY 2022 Totals	3127	2701	392	49	0	673
FY 2021 Totals	1,805	1,527	267	32	4	413

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



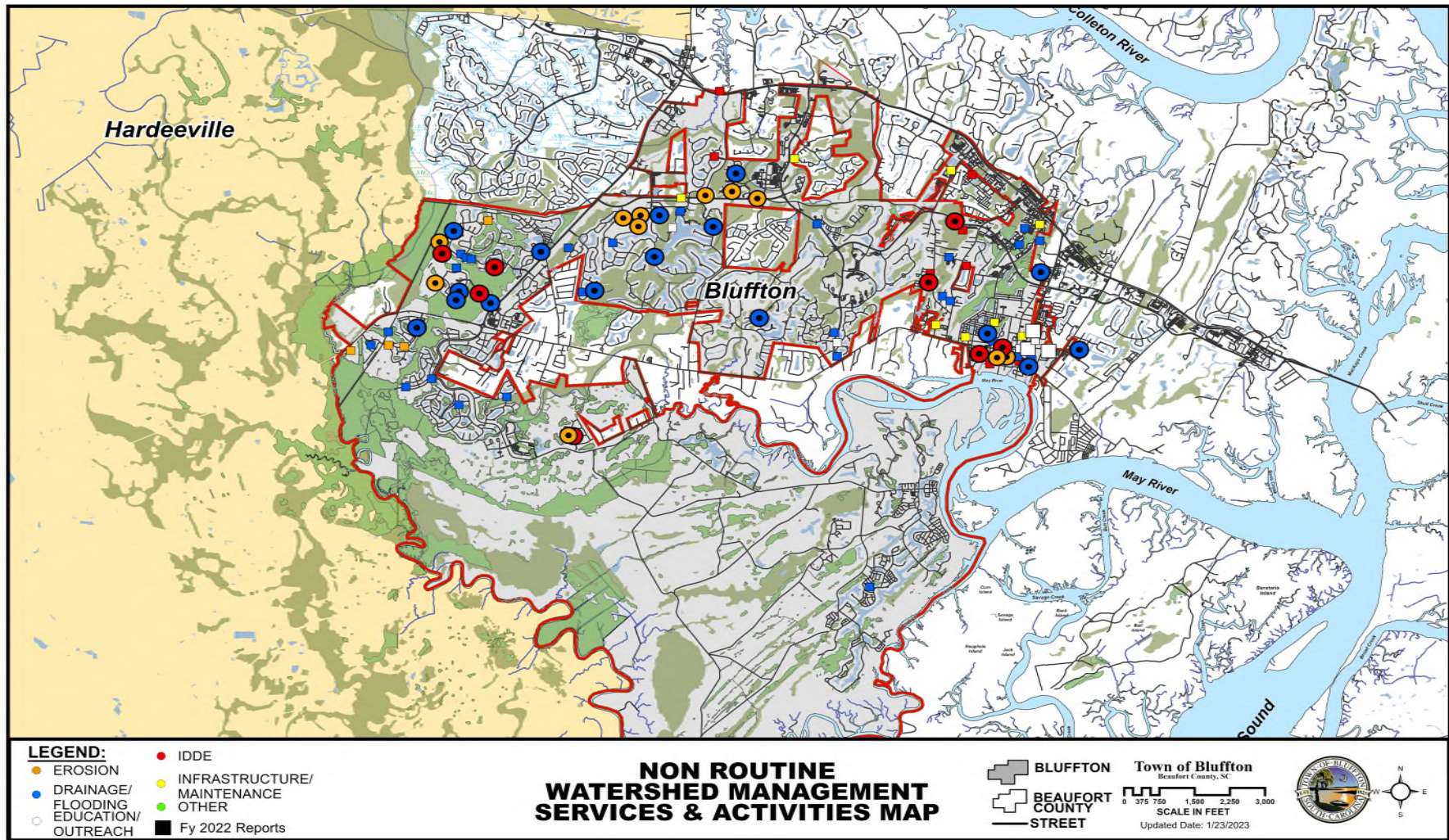
	Plan Reviews MS4 Reviews	SoLoCo Plan Reviews	Sureties	CCC Inspections	Pre-Construction Meetings	Pre-Clearing Inspections	Post Construction BMP Inspections	Pre-Application Meetings	Total Plan Review Hours
FY 2023 YTD	166	32	22	24	10	9	23	30	282 Hrs.
FY 2022 Totals	231	13	42	26	30	23	44	26	454 Hrs.
FY 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	46	38
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	7	10
FY 2022 Totals	33	21
FY 2021 Totals	46	36

BOUNDARY STREET LIGHTING
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2020	2021	2022																												
					Jun	Jul	Aug	Sep	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
1	BOUNDARY STREET LIGHTING PHASE 2	901 days	Mon 7/8/19	Mon 12/19/22																															
2	Planning and Conceptual Design	697 days	Mon 7/8/19	Tue 3/8/22																															
13	Permitting	90 days	Mon 1/20/20	Fri 5/22/20																															
15	Easements and Land Acquisition	369 days	Tue 6/1/21	Fri 10/28/22																															
18	Construction	31 days	Mon 11/7/22	Mon 12/19/22																															

Project: 00069 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			

BOUNDARY STREET STREETScape
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Predecessors	Finish	Quarter	4th Quarter			1st Quarter			2nd Quarter			3rd Quarter			4th Quarter			1st Quarter			2nd Quarter				
						Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
1	BOUNDARY STREET STREETScape	689 days	Mon 9/7/20		Thu 4/27/23	◆																							
2	Planning and Conceptual Design	379 days	Mon 9/7/20		Thu 2/17/22	◆																							
14	Final Planning and Construction Documents	260 days	Fri 2/18/22		Thu 2/16/23	◆																							
20	Permitting Phase	130 days	Fri 10/28/22		Thu 4/27/23	◆																							
25	Easements and Land Acquisition	116 days	Fri 10/28/22		Fri 4/7/23	◆																							

Project: 00094 Date: Wed 11/23/22	Baseline Milestone	◆	Task	■	Permitting	◆	Baseline	■
	Baseline Summary	┌───┐	Project Duration	◆───◆	Bidding and Contract	◆		■
	Milestone	◆	Planning and Conceptual Design	◆	Easements and Land Acquisitions	◆		■
	Critical Task	★	Final Design and Construction Documents	◆	Construction	◆		■

BRIDGE STREET STREETScape
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	September	October	November	December	January	February	March	April	May	June	July	August	September	October																
					9/4	9/18	10/2	10/16	10/30	11/13	11/27	12/11	12/25	1/8	1/22	2/5	2/19	3/5	3/19	4/2	4/16	4/30	5/14	5/28	6/11	6/25	7/9	7/23	8/6	8/20	9/3	9/17	10/1	10/15
1	Bridge Street Streetscape	287 days	Tue 9/20/22	Wed 10/25/23																														
2	Construction	287 days	Tue 9/20/22	Wed 10/25/23																														



Project: 00082 Date: Tue 1/17/23	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	◆																												

BUCK ISLAND-SIMMONSVILLE SANITARY SEWER PHASE 5 A-D
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Predecessors	Q4 2016	Q1 2017	Q2 2017	Q3 2017	Q4 2017	Q1 2018	Q2 2018	Q3 2018	Q4 2018	Q1 2019	Q2 2019	Q3 2019	Q4 2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023			
1	PHASE 5 A-D	1800 days?	Thu 12/1/16	Wed 10/25/23		◆																															
2	Planning and Conceptual Design	6 days	Thu 12/1/16	Thu 12/8/16		◆																															
4	Permitting	474 days	Fri 12/9/16	Wed 10/3/18		◆																															
11	Easements and Land Acquisition	642 days	Mon 4/3/17	Tue 9/17/19		◆																															
16	Bidding and Contracts	50 days	Wed 1/1/20	Tue 3/10/20		◆																															
21	Construction	808 days	Mon 9/21/20	Wed 10/25/23		◆																															
45																																					
46																																					

Project: 00044 Date: Thu 11/3/22	Milestone ◆ Critical Task ★	Task Project Duration	 Planning and Conceptual Design  Final Design and Construction Documents  Permitting  Bidding and Contract	 Easements and Land Acquisitions  Construction	 
-------------------------------------	--------------------------------	--------------------------	---	---	--

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	
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: Mon 12/19/22	Milestone	◆	Project Duration	◆————◆	Permitting		Construction	
	Critical Task	★	Planning and Conceptual Design		Bidding and Contract			
	Task		Final Design and Construction Documents		Easements and Land Acquisitions			

COMPREHENSIVE DRAINAGE PLAN IMPROVEMENTS
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish
1	Comprehensive Drainage Plan Improvements	1391 days	Thu 7/1/21	Thu 10/29/26
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	1 day	Thu 10/29/26	Thu 10/29/26



Project: 00099	Milestone	◆	Critical Task	★	Task	█	Project Duration	█	Planning and Conceptual Design	◆	Final Design and Construction Documents	◆	Permitting	◆	Bidding and Contract	◆	Easements and Land Acquisitions	◆	Construction	◆
----------------	-----------	---	---------------	---	------	---	------------------	---	--------------------------------	---	---	---	------------	---	----------------------	---	---------------------------------	---	--------------	---

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

GHOST ROADS
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2020												2021												2022											
					Sep	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	Jun	Jul	Aug
1	GHOST ROADS	765 days	Thu 9/12/19	Wed 8/17/22	◆																																			
2	Planning and Conceptual Design	765 days	Thu 9/12/19	Wed 8/17/22	◆																																			
3	Preparation of Exhibit	113 days	Thu 9/12/19	Mon 2/17/20	█																																			
4	Owner Meetings	453 days	Mon 10/7/19	Wed 6/30/21	█																																			
5	Quit Claim Deed Execution	708 days	Mon 10/7/19	Wed 6/22/22	█																																			
6	All deeds	40 days	Thu 6/23/22	Wed 8/17/22	█																																			

Project: 00093 Date: Wed 11/23/22	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 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

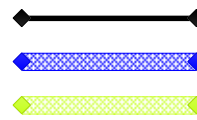
ID	Task Name	Duration	Start	Finish	2021												2022												2023											
					Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun			
1	PHASE 5	669 days	Mon 11/2/20	Thu 5/25/23	◆																																			
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	310 days	Tue 9/21/21	Mon 11/28/22	◆																																			
17	Bidding and Contracts	181 days	Tue 5/10/22	Tue 1/17/23	◆																																			
22	Construction	92 days	Wed 1/18/23	Thu 5/25/23	◆																																			

Project: 00074
Date: Wed 11/23/22

Milestone
Critical Task
Task



Project Duration
Planing and Conceptual Design
Final Design and Construction Documents



Permitting
Easements and Land Acquisitions
Bidding and Contracts



Construction



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	◆		

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	1285 days	Mon 7/2/18	Fri 6/2/23		◆											
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	185 days	Mon 2/28/22	Fri 11/11/22		◆											
22	Bidding and Contracts	42 days	Mon 11/14/22	Tue 1/10/23		◆											
27	Construction	103 days	Wed 1/11/23	Fri 6/2/23		◆											

Project: 00071 Date: Thu 11/3/22	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	Jun
1	PHASE 3	663 days	Mon 11/2/20	Wed 5/17/23	◆																																
2	Planning and Conceptual Design	236 days	Mon 11/2/20	Mon 9/27/21	◆																																
9	Final Design and Construction Documents	260 days	Tue 9/28/21	Mon 9/26/22	◆																																
11	Permitting	30 days	Tue 9/27/22	Mon 11/7/22	◆																																
14	Easements and Land Acquisition	105 days	Tue 9/21/21	Mon 2/14/22	◆																																
17	Bidding and Contracts	46 days	Tue 11/8/22	Tue 1/10/23	◆																																
22	Construction	91 days	Wed 1/11/23	Wed 5/17/23	◆																																

Project: 00072	Milestone ◆	Project Duration ◆	Permitting ◆	Construction ◆
Date: Thu 11/3/22	Critical Task ★	Planing and Conceptual Design ◆	Easements and Land Acquisitions ◆	
	Task ■	Final Design and Construction Documents ◆	Bidding and Contracts ◆	

BUCKWALTER MULTI-COUNTY COMMERCE PARK
LEC EXPANSION - PROPOSED SCHEDULE

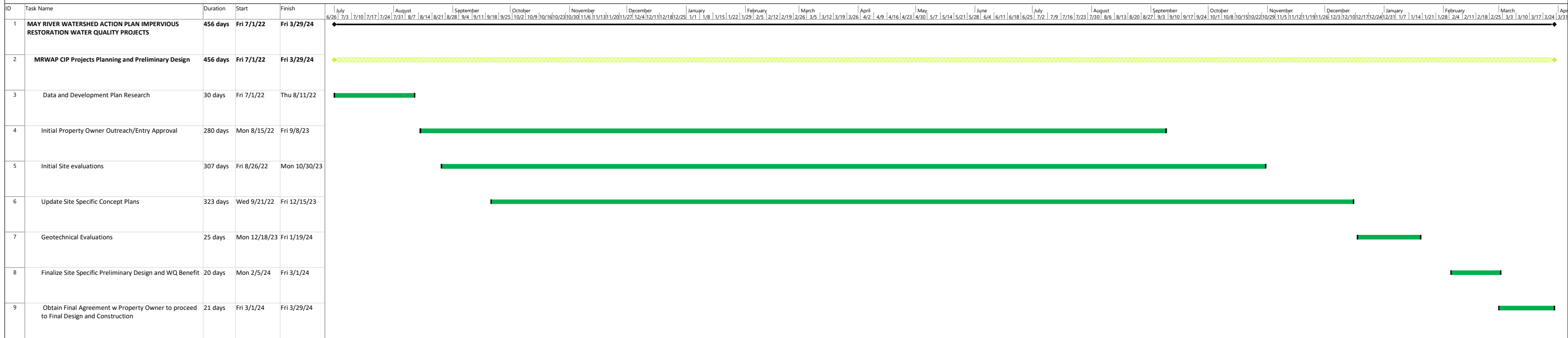
ID	Task Name	Duration	Start	Finish	November	December	January	February	March	April	May	June	July	August	September	October	November	December	January	February	March	April	May	June	July	August	September	October	November	December	January	February	March	April	May	June	July	August	September	October	November	December	January	February	March	April	May	June	July	August	September	October	November
1	LEC Expansion	1042 days	Wed 11/18/20	Thu 11/14/24	◆																																																
2	Parking and Site Improvements	161 days	Wed 11/18/20	Wed 6/30/21	◆																																																
17	Reflection Plaza	162 days	Mon 3/14/22	Tue 10/25/22	◆																																																
26	Challenge Course	49 days	Wed 10/12/22	Mon 12/19/22	◆																																																
33	Facility Improvements	639 days	Mon 6/6/22	Thu 11/14/24	◆																																																

MAY RIVER ROAD POCKET PARK
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	
1	MAY RIVER ROAD POCKET PARK	354 days	Thu 7/1/21	Tue 11/8/22	
2	Planning and Conceptual Design	46 days	Thu 7/1/21	Thu 9/2/21	
6	Final Planning and Construction Documents	140 days	Fri 9/3/21	Thu 3/17/22	
13	Permitting	94 days	Mon 11/29/21	Thu 4/7/22	
18	Bidding and Contract	48 days	Fri 3/18/22	Tue 5/24/22	
24	Construction	106 days	Tue 6/14/22	Tue 11/8/22	

Project: 00080	Milestone	◆	Task		Planning and Conceptual Design		Permitting		Easements and Land Acquisitions	
Date: Wed 11/23/22	Critical Task	★	Project Duration		Final Design and Construction Documents		Bidding and Contract		Construction	

MAY RIVER WATERSHED ACTION PLAN IMPERVIOUS WATER QUALITY PROJECTS
PROPOSED SCHEDULE



Project: 00105
Date: Fri 9/23/22

Milestone Task Planning and Conceptual Design Permitting Easements and Land Acquisitions
 Critical Task Project Duration Final Design and Construction Documents Bidding and Contract Construction

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	◆																															
14	Final Planning and Construction Documents	154 days	Fri 7/1/22	Wed 2/1/23	◆																															
26	Permitting	121 days	Thu 2/2/23	Thu 7/20/23	◆																															
32	Bidding and Contracts	55 days	Fri 7/21/23	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 Wed 11/9/22	Project Duration	◆	Critical Task	★	Planning and Conceptual Design	◆	Permitting	◆	Bidding and Contracts	◆
	Task	■	Milestone	◆	Final Design and Construction Documents	◆	Easements and Land Acquisition	◆	Construction	◆

NEW RIVERSIDE BARN PARK - PHASE 1
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	
1	NEW RIVERSIDE BARN PARK - PHASE 1	296 days	Mon 8/1/22	Mon 9/18/23	
2	Bidding and Contracts	65 days	Mon 8/1/22	Fri 10/28/22	
10	Preconstruction Phase	10 days	Mon 10/31/22	Fri 11/11/22	
14	Construction Phase	221 days	Mon 11/14/22	Mon 9/18/23	

Project: 00085
Date: Wed 11/23/22

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

OYSTER FACTORY PARK
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	
0	00059 Oyster Factory Parking Improvements	191 days	Mon 8/15/22	Mon 5/8/23	
1	Oyster Factory Park	191 days	Mon 8/15/22	Mon 5/8/23	
2	Pre Construction	91 days	Mon 8/15/22	Mon 12/19/22	
6	Construction	90 days	Tue 1/3/23	Mon 5/8/23	

Project: 00059
Date: Wed 11/23/22

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	Timeline																																													
					August 2022				September 2022				October 2022				November 2022				December 2022				January 2023				February 2023				March 2023				April 2023				May 2023				June 2023				July 2023	
					E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E
1	PARK IMPROVEMENTS - FY 23	240 days	Mon 8/1/22	Fri 6/30/23	◆																																													
2	Final Planning and Construction Documents	122 days	Mon 8/1/22	Tue 1/17/23	◆																																													
10	Bidding and Contracts	55 days	Mon 1/23/23	Fri 4/7/23	◆																																													
16	Construction	60 days	Mon 4/10/23	Fri 6/30/23	◆																																													

Project 00086 Mon 12/5/22	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	July	August	Septemb	October	Novemb	Decembe	January	February	March	April	May	June	July	August	Septemb	October	Novemb	Decembe	January	Feb				
					E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M
1	Pathway Pedestrian Safety Improvements	414 days	Thu 7/1/21	Tue 1/31/23	◆—————◆																							
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	48 days	Mon 10/3/22	Wed 12/7/22	◆—————◆																							
23	Construction	40 days	Wed 12/7/22	Tue 1/31/23	◆—————◆																							

Project: 00050 Date: Wed 11/23/22	Milestone ◆	Project Duration ◆—————◆	Permitting ◆—————◆	Construction ◆—————◆
	Critical Task ★	Planning and Conceptual Design ◆—————◆	Bidding and Contract ◆—————◆	
	Task ■	Final Design and Construction Documents ◆—————◆	Easements and Land Acquisitions ◆—————◆	

PRITCHARD STREET DRAINAGE IMPROVEMENTS
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	
1	PRITCHARD STREET DRAINAGE IMPROVEMENTS	543 days	Fri 7/1/22	Tue 7/30/24	
2	Pritchard Street Design and Construction Documents	201 days	Fri 7/1/22	Fri 4/7/23	
4	Pritchard Street Bidding and Contracts	37 days	Mon 4/10/23	Tue 5/30/23	
10	Pritchard Street Construction	139 days	Wed 5/31/23	Mon 12/11/23	

Project: 00106 Date: Fri 9/23/22	Milestone Critical Task	◆ ★	Task Project Duration	Planning and Conceptual Design	Permitting	Easements and Land Acquisitions	Construction
				Final Design and Construction Documents	Bidding and Contract		

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	7/24	7/31	8/7	8/14	8/21	8/28	9/4	9/11	9/18	9/25	10/2	10/9	10/16	10/23	10/30	11/6	11/13	11/20	11/27	12/4	12/11	12/18	12/25	1/1	1/8	1/15	1/22	1/29	2/5	2/12	2/19	2/26	3/5	3/12
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	◆		



MEMORANDUM

Date: February 3, 2023

To: Stormwater Management Utility Board

From: Matthew Rausch, Stormwater Infrastructure Superintendent

Re: **Maintenance Project Report**

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

Major Projects:

- **Lightsey Road Channel – Sheldon (5):** This project improved 3,383 linear feet of drainage system. The scope of work included cleaning out 3,383 linear feet of channel ditch. The total cost was **\$15,131.06.**
- **Halifax Drive – St. Helena Island (8):** This project improved 4,645 linear feet of drainage system. The scope of work included cleaning out 4,219 linear feet of channel ditch and 426 linear feet of roadside ditch. The total cost was **\$17,478.62.**
- **Old Jericho Road and Taft Street – Port Royal Island (6,9):** This project improved 1,330 linear feet of drainage system. The scope of work included cleaning out 1,330 linear feet of roadside ditch and jetting (6) driveway pipes. Hydroseeded for erosion control. The total cost was **\$17,781.71.**

Minor or Routine Projects:

- **BCSO Camp St Marys Road – Bluffton (4):** The scope of work included grading the road to improve drainage. The total cost was **\$1,431.41.**
- **Burkes Beach – Hilton Head Island (3):** This project improved 1,762 linear feet of drainage system. The scope of work included cleaning out 1,762 linear feet of roadside ditch and jetting (2) driveway pipes. The total cost was **\$11,577.84.**
- **Glover Road and Gregory Drive – St. Helena Island (8):** This project improved 548 linear feet of drainage system. The scope of work included cleaning out 548 linear feet of roadside ditch and jetting (2) driveway pipes and (1) crossline pipe. The total cost was **\$5,039.16.**
- **Irongate Subdivision – Port Royal Island (6,9)** This project improved 870 linear feet of drainage system. The scope of work included cleaning out 620 linear feet of roadside ditch and 250 linear feet of channel ditch. The total cost was **\$1,917.56.**

- **Joe Allen Drive – Port Royal Island (6,9):** The scope of work included installing (1) access pipe and rip rap for erosion control. The total cost was **\$2,031.09.**
- **John Calhoun Street – Lady’s Island (7):** This project improved 234 linear feet of drainage system. The scope of work included cleaning out 234 linear feet of roadside ditch and jetting (3) driveway pipes. The total cost was **\$2,682.58.**
- **Lady’s Island Tree Removal – Lady’s Island (7):** The scope of work included removing fallen tree from the roadside. The total cost was **\$8,636.58.**
- **Lady’s Island Vacuum Truck – Lady’s Island (7):** This project improved 120 linear feet of drainage system. The scope of work included jetting (8) driveway pipes, (1) crossline pipe and 120 linear feet of channel pipe. The total cost was **\$3,259.86.**
- **Lady’s Island Washout and Sinkhole Repair – Lady’s Island (7):** The scope of work included repairing washouts and (1) sinkhole. The total cost was **\$3,114.33.**
- **Martha Lane – Bluffton (4):** This project improved 904 linear feet of drainage system. The scope of work included cleaning out 904 linear feet of roadside ditch. The total cost was **\$5,296.83.**
- **Oakmont Subdivision – Port Royal Island (6):** The scope of work included replacing (1) driveway pipe and (1) crossline pipe. Also jetting (1) driveway pipe. The total cost was **\$9,890.00.**
- **Port Royal Island Tree Removal – Port Royal Island (6,9):** The scope of work included removing tress from the roadside and workshelf. The total cost was **\$10,237.06.**
- **Port Royal Island Vacuum Truck – Port Royal Island (6,9):** The scope of work included cleaning out (1) catch basin and jetting (1) crossline pipe and (7) driveway pipes. The total cost was **\$3,256.21.**
- **Port Royal Island Washout and Sinkhole Repairs – Port Royal Island (6,9):** The scope of work included repairing washouts and sinkholes. The total cost was **\$13,332.50.**
- **Roseida Road Ext – Port Royal Island (6,9):** This project improved 1,050 linear feet of drainage system. The scope of work included cleaning out 1,050 linear feet of channel ditch and installing (2) bleeder pipes. The total cost was **\$9,400.61.**
- **Sailors Choice – Bluffton (4):** This project improved 178 linear feet of drainage system. The scope of work included cleaning out 178 linear feet of roadside ditch. The total cost was **\$1,392.12.**
- **Sheldon Tree Removal – Sheldon (5):** The scope of work included removing fallen trees from a roadside ditch and workshelf. The total cost was **\$2,271.13.**

- **St Helena Island Tree Removal – St. Helena Island (8):** The scope of work included removing fallen trees from workshelves and roadside ditches. The total cost was **\$5,612.95**.
- **St Helena Island Vacuum Truck – St. Helena Island (8):** This project improved 192 linear feet of drainage system. The scope of work included jetting (26) driveway pipes, (4) crossline pipes and 192 linear feet of channel pipe. The total cost was **\$9,040.40**.
- **Tammy Lane – Port Royal Island (9):** This project improved 120 linear feet of drainage system. The scope of work included cleaning out 120 linear feet of roadside ditch and repairing (1) driveway. The total cost was **\$1,943.29**.
- **Wintergreen Drive – Port Royal Island (6,9):** This project improved 373 linear feet of drainage system. The scope of work included cleaning out 373 linear feet of roadside ditch and jetting (7) driveway pipes and (1) crossline pipe. The total cost was **\$3,070.71**.



Beaufort County Public Works
Stormwater Infrastructure
 Project Summary

Project Summary: Lightsey Road Channel

Activity: Routine/Preventive Maintenance

Duration: 07/05/2022 - 08/30/2022

Narrative Description of Project:

Project improved 3,383 L.F. of drainage system. Cleaned out 3,383 L.F. of channel ditch.

2023-575 / Lightsey Road Channel	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
AUDIT / Audit Project	2.00	\$65.48	\$0.00	\$0.00	\$0.00	\$40.42	\$105.90
CCO / Channel - cleaned out	84.00	\$2,773.80	\$1,329.83	\$514.28	\$0.00	\$1,712.16	\$6,330.07
CLJS / Cleaned up jobsite	54.00	\$1,638.43	\$246.11	\$187.64	\$0.00	\$1,011.36	\$3,083.54
HAUL / Hauling	60.00	\$2,025.16	\$1,067.36	\$680.75	\$0.00	\$1,176.04	\$4,949.31
HEQ / Haul equipment	8.00	\$276.32	\$152.48	\$62.88	\$0.00	\$170.56	\$662.24
Grand Total	208.00	\$6,779.19	\$2,795.78	\$1,445.55	\$0.00	\$4,110.54	\$15,131.06

(Before)



(During)



(After)

(No Picture Available)



Project: Lightsey Road Channel Map #1

Activity: Routine/ Preventive Maintenance














Project #: 2023-575

Township/SW Dist: Sheldon/5

Completed: August 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 = 670 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/31/23

File: C:\project summaries map\Lightsey Road Map 1_2023-575



Project: Lightsey Road Channel Map #2

Activity: Routine/ Preventive Maintenance

Project #: 2023-575

Township/SW Dist: Sheldon/5

Completed: August 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 = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/31/23

File: C:\project summaries map\Lightsey Road Map 2_2023-575



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Halifax Drive

Activity: Routine/Preventive Maintenance

Duration: 10/11/2022 - 10/26/2022

Narrative Description of Project:

Project improved 4,645 L.F. of drainage system. Cleaned out 4,219 L.F. of channel ditch and 426 L.F. roadside ditch.

2023-537 / Halifax Drive

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
AUDIT / Audit Project	1.00	\$32.74	\$0.00	\$0.00	\$0.00	\$20.21	\$52.95
CCO / Channel - cleaned out	136.00	\$4,010.68	\$999.46	\$431.70	\$0.00	\$2,475.76	\$7,917.60
CLJS / Cleaned up jobsite	72.00	\$2,170.77	\$372.01	\$88.13	\$0.00	\$1,232.72	\$3,863.63
HAUL / Hauling	51.00	\$1,768.60	\$972.06	\$436.80	\$0.00	\$1,091.72	\$4,269.18
RSDCL / Roadside Ditch - Cleanout	24.00	\$758.03	\$67.24	\$82.07	\$0.00	\$467.92	\$1,375.26
Grand Total	284.00	\$8,740.82	\$2,410.77	\$1,038.70	\$0.00	\$5,288.33	\$17,478.62

Before



During



After



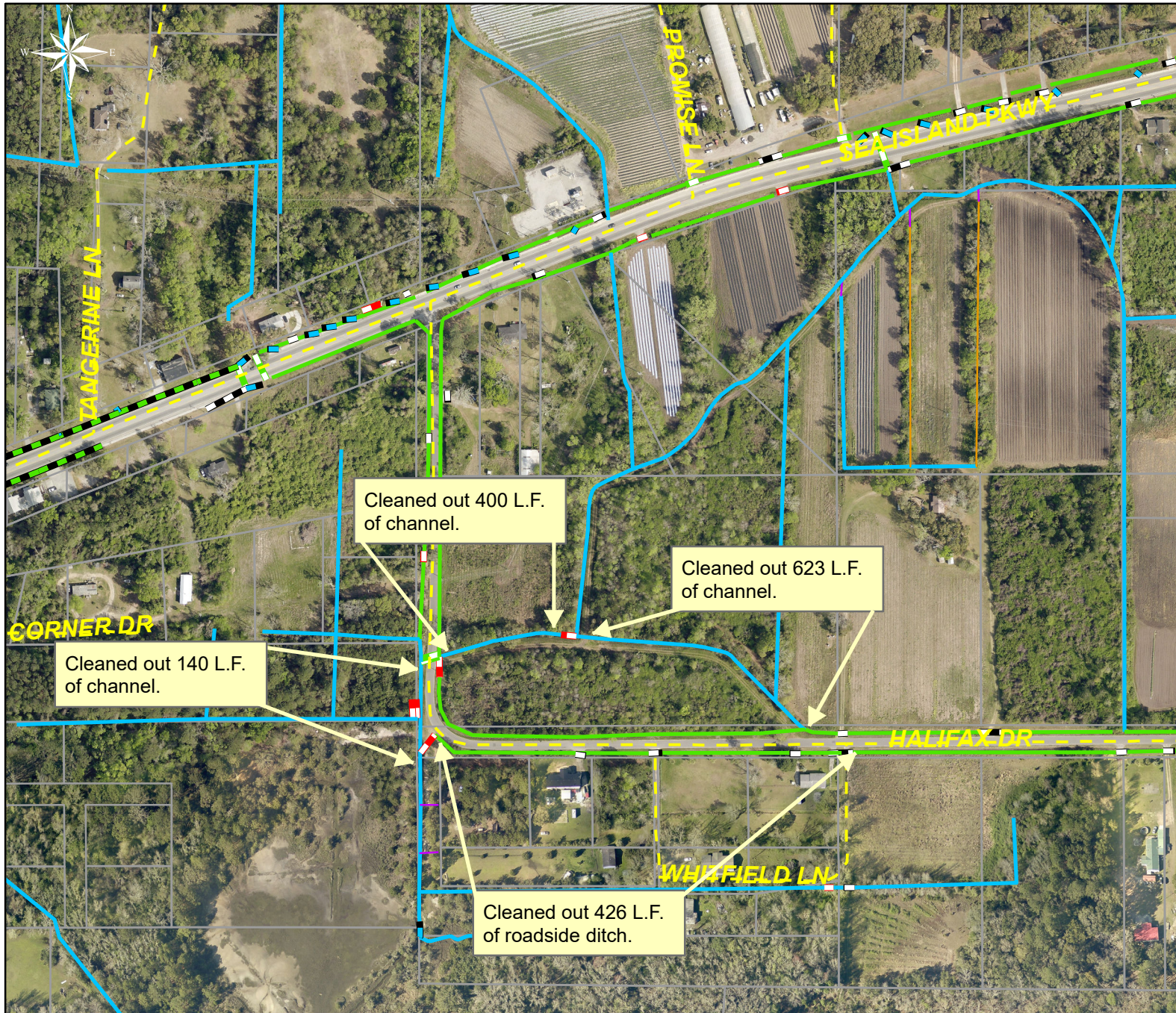
Project: Halifax Drive
Map #1

Activity: Routine/
Preventive
Maintenance

Project #:
2023-537

Township/SW Dist:
St Helena Island/8

Completed:
October 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 55 110 220 330 440
Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/10/23

File: C:\project summaries map\Halifax Drive Map 1_2023-537



Project: Halifax Drive
Map #2

Activity: Routine/
Preventive
Maintenance














Project #:
2023-537

Township/SW Dist:
St Helena Island/8

Completed:
October 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 40 80 160 240 320
Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/10/23

File: C:\project summaries map\Halifax Drive Map 2\2023-537



Project: Halifax Drive
Map #3

Activity: Routine/
Preventive
Maintenance














Project #:
2023-537

Township/SW Dist:
St Helena Island/8

Completed:
October 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 40 80 160 240 320
Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/10/23

File: C:\project summaries map\Halifax Drive Map 3_2023-537



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Old Jericho Road and Taft Street

Activity: Routine/Preventive Maintenance

Duration: 09/22/2022 - 11/03/2022

Narrative Description of Project:

Project improved 1,330 L.F. of drainage system. Cleaned out 1,330 L.F. roadside ditch. Jetted (6) driveway pipes. Hydroseeded for erosion control.

2023-534 / Old Jericho Road and Taft Street	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
AUDIT / Audit Project	1.50	\$49.11	\$0.00	\$0.00	\$0.00	\$30.32	\$79.43
DPJT / Driveway Pipe - Jetted	24.00	\$755.05	\$477.24	\$194.40	\$0.00	\$466.08	\$1,892.77
HAUL / Hauling	56.00	\$1,678.32	\$1,067.36	\$819.26	\$0.00	\$0.00	\$3,564.94
HYDR / Hydroseeding	32.00	\$804.75	\$72.00	\$282.92	\$0.00	\$389.52	\$1,549.19
ONJV / Onsite Job Visit	41.00	\$1,710.52	\$169.65	\$46.36	\$0.00	\$0.00	\$1,926.53
RMTRD / Remove trees - Ditch	64.00	\$1,609.47	\$295.32	\$204.13	\$0.00	\$779.04	\$2,887.96
RSDCL / Roadside Ditch - Cleanout	120.00	\$3,045.20	\$723.72	\$157.50	\$0.00	\$1,343.52	\$5,269.94
TC / Traffic Control - Jobsite	16.00	\$376.20	\$34.80	\$33.28	\$0.00	\$124.96	\$569.24
UTLOC / Utility locates	1.00	\$41.72	\$0.00	\$0.00	\$0.00	\$0.00	\$41.72
Grand Total	355.50	\$10,070.33	\$2,840.09	\$1,737.85	\$0.00	\$3,133.44	\$17,781.71

Before



During



After





Project: Old Jericho Road/Taft Street Map #1

Activity: Routine/ Preventive Maintenance

Project #: 2023-534

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

Completed: October 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 20 40 80 120 160 Feet

1 inch = 130 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/09/23

File: C:\project summaries map\Old Jericho Road\Taft Street Map 1_2023-534



Project: Old Jericho Road/Taft Street Map #2

Activity: Routine/ Preventive Maintenance

Project #: 2023-534

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

Completed: October 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 = 130 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/09/23

File: C:\project summaries map\Old Jericho Road\Taft Street Map 2_2023-534



Beaufort County Public Works
Stormwater Infrastructure
 Project Summary

Project Summary: BCSO Camp St Marys Road

Activity: Routine/Preventive Maintenance

Duration: 07/08/2022

Narrative Description of Project:

Graded the road to improve drainage.

2023-576 / BCSO Camp St Marys Road

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
AUDIT / Audit Project	0.50	\$16.37	\$0.00	\$0.00	\$0.00	\$10.11	\$26.48
GRDNRD / Grading - non-roads	28.00	\$915.00	\$69.60	\$61.54	\$0.00	\$358.80	\$1,404.94
Grand Total	28.50	\$931.37	\$69.60	\$61.54	\$0.00	\$368.91	\$1,431.41

(Before)

(During)

(After)

(No Picture Available)





Project: BCSO/ Camp St Mary's Road

Activity: Routine/ Preventive Maintenance

Project #: 2023-576

Township/SW Dist: Bluffton/4

Completed: July 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 75 100 Feet

1 inch = 83 feet

Prepared By: BC Stormwater Management Utility
 Date Print: 01/25/23
 File: C:\project summaries map\BCSO\Camp St Mary's Road_2023-576



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Burkes Beach

Burkes Beach Road, Shore Crest Lane, Barrier Beach Cove,
 Sandy Beach Trail and Sea Front Lane

Activity: Routine/Preventive Maintenance

Duration: 06/28/2022 - 11/17/2022

Narrative Description of Project:

Project improved 1,762 L.F. of drainage system. Cleaned out 1,762 L.F. of roadside ditch. Jetted (2) driveway pipes.

2023-574 / Burkes Beach

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
AUDIT / Audit Project	1.00	\$32.74	\$0.00	\$0.00	\$0.00	\$20.21	\$52.95
CI / Channel - Inspection	3.00	\$125.16	\$13.05	\$8.43	\$0.00	\$0.00	\$146.64
DPJT / Driveway Pipe - Jetted	16.00	\$503.37	\$306.56	\$126.50	\$0.00	\$310.72	\$1,247.15
HAUL / Hauling	40.00	\$1,274.96	\$609.92	\$346.72	\$0.00	\$638.96	\$2,870.56
MEET / Meetings	0.50	\$20.86	\$2.18	\$0.00	\$0.00	\$0.00	\$23.04
ONJV / Onsite Job Visit	28.00	\$1,168.16	\$121.80	\$77.68	\$0.00	\$0.00	\$1,367.64
RSDCL / Roadside Ditch - Cleanout	120.00	\$3,341.02	\$365.06	\$274.22	\$0.00	\$1,847.84	\$5,828.14
UTLOC / Utility locates	1.00	\$41.72	\$0.00	\$0.00	\$0.00	\$0.00	\$41.72
Grand Total	209.50	\$6,507.99	\$1,418.57	\$833.56	\$0.00	\$2,817.73	\$11,577.84

Before



During



After



Project: Burkes Beach
Map #1

Activity: Routine/
Preventive
Maintenance

Project #:
2023-574














Township/SW Dist:
Hilton Head Island/3

Completed:
November 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 = 210 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/24/23

File: C:\project summaries map\Burkes Beac Map 1_2023-574

Project: Burkes Beach
Map #2

Activity: Routine/
Preventive
Maintenance

Project #:
2023-574

Township/SW Dist:
Hilton Head Island/3

Completed:
November 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: 01/24/23

File: C:\project summaries map\Burkes Beach Map 2_2023-574



Project: Burkes Beach
Map #3

Activity: Routine/
Preventive
Maintenance

Project #:
2023-574

Township/SW Dist:
Hilton Head Island/3

Completed:
November 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 = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/24/23

File: C:\project summaries map\Burkes Beach Map 3_2023-574



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Glover Road and Gregory Drive

Activity: Routine/Preventive Maintenance

Duration: 09/15/2022 - 11/07/2022

Narrative Description of Project:

Project improved 548 L.F. of drainage system. Cleaned out 548 L.F. of roadside ditch. Jetted (1) crossline pipe and (2) driveway pipes.

2023-529 / Glover Road and Gregory Drive	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
AUDIT / Audit Project	1.00	\$32.74	\$0.00	\$0.00	\$0.00	\$20.21	\$52.95
DITCHI / Ditch - Inspection	2.00	\$83.44	\$8.70	\$5.76	\$0.00	\$0.00	\$97.90
DPJT / Driveway Pipe - Jetted	8.00	\$251.68	\$170.68	\$88.48	\$0.00	\$155.36	\$666.20
HAUL / Hauling	16.00	\$479.52	\$304.96	\$170.56	\$0.00	\$0.00	\$955.04
ONJV / Onsite Job Visit	16.00	\$667.52	\$69.60	\$16.86	\$0.00	\$0.00	\$753.98
RSDCL / Roadside Ditch - Cleanout	56.00	\$1,435.70	\$420.72	\$92.18	\$0.00	\$564.48	\$2,513.08
Grand Total	99.00	\$2,950.61	\$974.66	\$373.84	\$0.00	\$740.05	\$5,039.16

Before



During

(No Picture Available)

After





Project: Glover Road/
Gregory Drive
Map #1

Activity: Routine/
Preventive
Maintenance

Project #:
2023-529

Township/SW Dist:
St Helena Island/8

Completed:
November 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 55110 220 330 440
Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility
Date Print: 01/18/23
File: C:\project summaries map\Glover Road Map 1_2023-529

Project: Glover Road/
Gregory Drive
Map #2

Activity: Routine/
Preventive
Maintenance

Project #:
2023-529

Township/SW Dist:
St Helena Island/8

Completed:
November 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: 01/18/23
File: C:\project summaries map\Glover Road Map 2_2023-529



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Irongate Subdivision

Activity: Routine/Preventive Maintenance

Duration: 09/06/2022 - 09/15/2022

Narrative Description of Project:

Project improved 870 L.F. of drainage system. Cleaned out 620 L.F. of roadside ditch and 250 L.F. of channel ditch.

2023-522 / Irongate Subdivision	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
AUDIT / Audit Project	0.50	\$16.37	\$0.00	\$0.00	\$0.00	\$10.11	\$26.48
CCO / Channel - cleaned out	4.50	\$118.31	\$44.15	\$0.00	\$0.00	\$73.04	\$235.49
HAUL / Hauling	4.00	\$119.88	\$76.24	\$26.13	\$0.00	\$0.00	\$222.25
PA / Project Assit	16.00	\$376.16	\$34.80	\$20.10	\$0.00	\$124.96	\$556.02
RSDCL / Roadside Ditch - Cleanout	15.00	\$394.37	\$147.15	\$50.64	\$0.00	\$243.45	\$835.61
UTLOC / Utility locates	1.00	\$41.72	\$0.00	\$0.00	\$0.00	\$0.00	\$41.72
Grand Total	41.00	\$1,066.81	\$302.34	\$96.87	\$0.00	\$451.55	\$1,917.56

(No Pictures Available)



Project: Irongate S/D

Activity: Routine/
Preventive
Maintenance

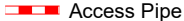








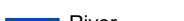



Project #:
2022-522

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

Completed:
September 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 55110 220 330 440
Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print:01/19/23

File:C:\project summaries map/Iron Gate_2023-522



Beaufort County Public Works
Stormwater Infrastructure
 Project Summary

Project Summary: Joe Allen Drive

Activity: Routine/Preventive Maintenance

Duration: 07/26/2022

Narrative Description of Project:

Installed (1) access pipe and rip rap for erosion control.

2023-501 / Joe Allen Drive	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
APINS / Access pipe - installed	16.00	\$519.60	\$34.80	\$114.44	\$0.00	\$320.72	\$989.56
AUDIT / Audit Project	1.00	\$32.74	\$0.00	\$0.00	\$0.00	\$20.21	\$52.95
HAUL / Hauling	8.00	\$217.76	\$152.48	\$309.53	\$0.00	\$134.40	\$814.17
ONJV / Onsite Job Visit	3.00	\$125.16	\$13.05	\$36.20	\$0.00	\$0.00	\$174.41
Grand Total	28.00	\$895.26	\$200.33	\$460.17	\$0.00	\$475.33	\$2,031.09

(Before)



(During)



(After)

(No Picture Available)

Project: Joe Allen Drive

Activity: Routine/
Preventive
Maintenance

Project #:
2023-501

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

Completed:
July 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: 01/31/23
File: C:\project summaries map\Joe Allen Drive_2023-501



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: John Calhoun Street

Activity: Routine/Preventive Maintenance

Duration: 10/17/2022 - 11/07/2022

Narrative Description of Project:

Project improved 234 L.F. of drainage system. Cleaned out 234 L.F. of roadside ditch and jetted (3) driveways.

2023-536 / John Calhoun Street	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
AUDIT / Audit Project	1.50	\$49.11	\$0.00	\$0.00	\$0.00	\$30.32	\$79.43
DPJT / Driveway Pipe - Jetted	8.00	\$251.68	\$170.68	\$78.48	\$0.00	\$155.36	\$656.20
ONJV / Onsite Job Visit	9.00	\$375.48	\$39.15	\$11.60	\$0.00	\$0.00	\$426.23
RSDCL / Roadside Ditch - Cleanout	32.00	\$804.75	\$210.36	\$95.23	\$0.00	\$389.52	\$1,499.86
UTLOC / Utility locates	0.50	\$20.86	\$0.00	\$0.00	\$0.00	\$0.00	\$20.86
Grand Total	51.00	\$1,501.88	\$420.19	\$185.31	\$0.00	\$575.20	\$2,682.58

(Before)



(During)



(After)





Project: John Calhoun Street

Activity: Routine/ Preventive Maintenance














Project #: 2023-536

Township/SW Dist: Lady's Island/7

Completed: November 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 = 100 feet

Prepared By: BC Stormwater Management Utility

Date Print: 02/03/23

File: C:\project summaries map\John Calhoun Street_2023-536



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Lady's Island Tree Removal - W River Drive, Old Barn Road and Johnson Landing Road.

Activity: Routine/Preventive Maintenance

Duration: 07/18/2022 - 11/15/2022

Narrative Description of Project:

Removed fallen trees from roadside.

2023-413/Lady's Island Tree Removal

	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
HAUL / Hauling	28.00	\$977.80	\$533.68	\$475.92	\$0.00	\$603.56	\$2,590.96
ONJV / Onsite Job Visit	12.00	\$500.64	\$52.20	\$25.74	\$0.00	\$0.00	\$578.58
RMTR / Remove trees-roads	64.00	\$1,657.40	\$286.86	\$136.42	\$0.00	\$915.84	\$2,996.52
RMTRD / Remove trees - Ditch	48.00	\$1,152.27	\$633.64	\$81.92	\$0.00	\$496.80	\$2,364.63
Grand Total	154.00	\$4,353.58	\$1,506.38	\$720.00	\$0.00	\$2,056.62	\$8,636.58

(No Pictures Available)



Project: Lady's Island
Tree Removal
W River Drive
Map #1

Activity: Routine/
Preventive
Maintenance

Project #:
2023-413

Township/SW Dist:
Lady's Island/7

Completed:
November 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 55110 220 330 440
Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/18/23

File: C:\project summaries map\Lady's Island Tree Removal Map 1_2023-413



Project: Lady's Island
Tree Removal
Johnson Landing Road
Map #2

Activity: Routine/
Preventive
Maintenance

Project #:
2023-413

Township/SW Dist:
Lady's Island/7

Completed:
November 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 55110 220 330 440
Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/18/23

File: C:\project summaries map\Lady's Island Tree Removal Map 2_2023-413



Project: Lady's Island
Tree Removal
Old Barn Road
Map #3

Activity: Routine/
Preventive
Maintenance














Project #:
2023-413

Township/SW Dist:
Lady's Island/7

Completed:
November 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: 01/18/23

File: C:\project summaries map\Lady's Island Tree Removal Map 3_2023-413



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Lady's Island Vacuum Truck
Central Drive, Dolphin Point Drive and Royal Pines Boulevard.

Activity: Routine/Preventive Maintenance
Duration: 08/29/2022 - 09/12/2022

Narrative Description of Project:

This project improved 120 L.F. of drainage system. Jetted (8) driveway pipes, (1) crossline pipe and 120 L.F. of channel pipe.

2023-307 / Ladys Island 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
CLPJT / Crossline Pipe - Jetted	24.00	\$677.13	\$306.56	\$119.52	\$0.00	\$310.72	\$1,413.93
DPJT / Driveway Pipe - Jetted	24.00	\$716.09	\$383.20	\$160.85	\$0.00	\$388.40	\$1,648.54
ONJV / Onsite Job Visit	3.00	\$125.16	\$13.05	\$6.24	\$0.00	\$0.00	\$144.45
Grand Total	52.00	\$1,551.11	\$702.81	\$286.61	\$0.00	\$719.33	\$3,259.86

(No Pictures Available)



Project: Lady's Island
Vacuum Truck
Central Drive
Map #1

Activity: Routine/
Preventive
Maintenance

Project #:
2023-307

Township/SW Dist:
Lady's Island/7

Completed:
September 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

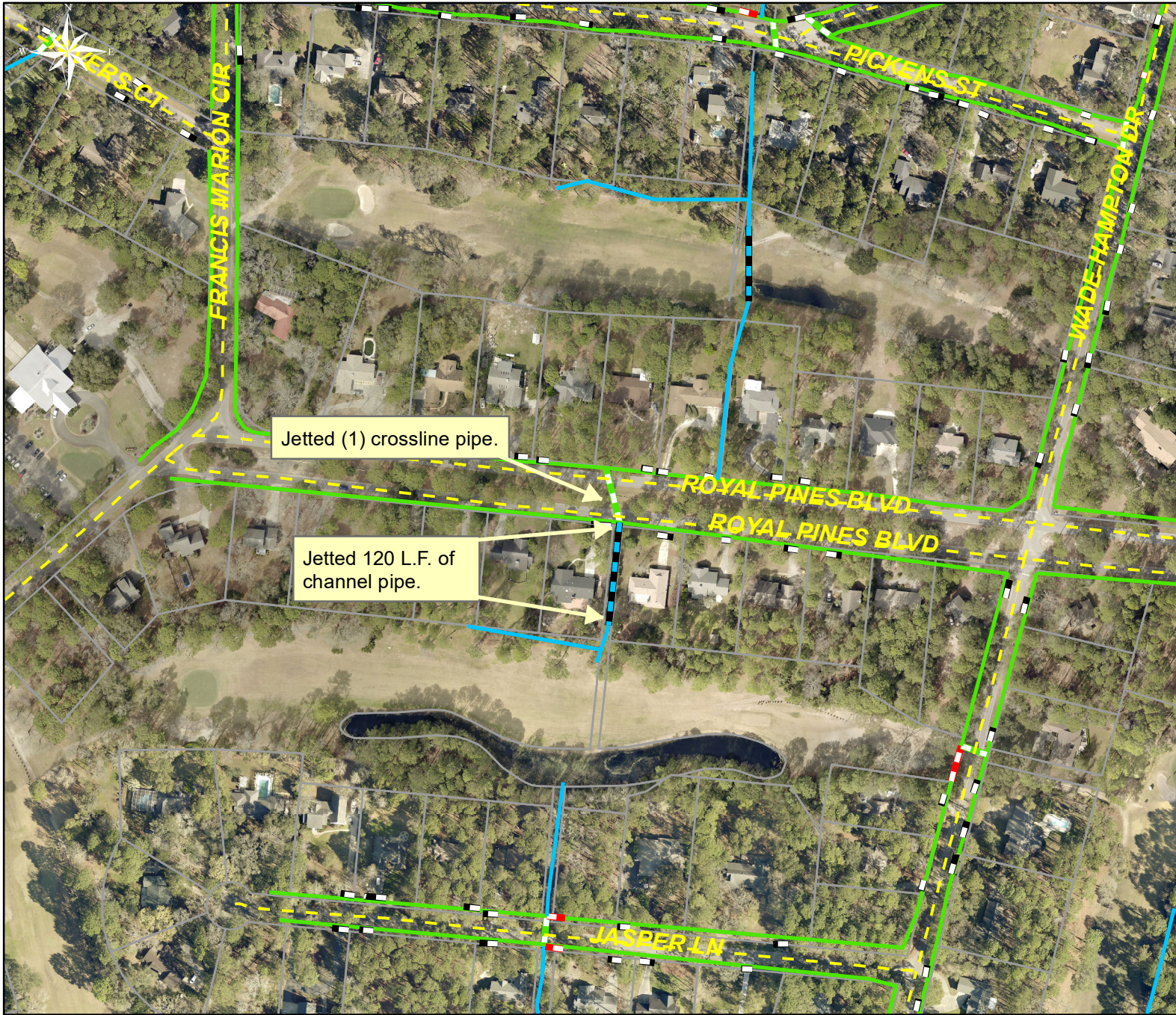
0 40 80 160 240 320
Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print:01/13/23

File:C:\project summaries map\Lady's Island Vac Truck Map 1_2023-307



Project: Lady's Island Vacuum Truck Royal Pines Blvd Map #2

Activity: Routine/ Preventive Maintenance

Project #: 2023-307

Township/SW Dist: Lady's Island/7

Completed: September 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 40 80 160 240 320 Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/13/23

File: C:\project summaries map\Lady's Island Vac Truck Map 2_2023-307



Project: Lady's Island
Vacuum Truck
Dolphin Point Drive
Map #3

Activity: Routine/
Preventive
Maintenance

Project #:
2023-307

Township/SW Dist:
Lady's Island/7

Completed:
September 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: 01/13/23

File: C:\project summaries map\Lady's Island Vac Truck Map 3_2023-307



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Ladys Island Washout and Sinkhole Repairs -
 Black Skimmer Court, Hewlett Road and Salicornia Drive

Activity: Routine/Preventive Maintenance
Duration: 08/08/2022 - 09/21/2022

Narrative Description of Project:
 Repaired washouts and a sinkhole.

2023-420/Ladys Island Washout/Sinkhole Repairs

	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	4.00	\$119.88	\$76.24	\$81.35	\$0.00	\$0.00	\$277.47
ONJV / Onsite Job Visit	7.00	\$292.04	\$30.45	\$15.12	\$0.00	\$0.00	\$337.61
RPWO / Repaired Washout	32.00	\$938.48	\$202.68	\$85.02	\$0.00	\$579.32	\$1,805.50
SR / Sinkhole repair	16.00	\$376.16	\$34.80	\$104.88	\$0.00	\$124.96	\$640.80
Grand Total	60.00	\$1,759.30	\$344.17	\$286.37	\$0.00	\$724.49	\$3,114.33

Before



During



After





Project: Lady's Island Washout/Sinkhole Repair
 Black Skimmer Court
 Map #1

Activity: Routine/ Preventive Maintenance

Project #: 2023-420

Township/SW Dist: Lady's Island/7

Completed: September 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 55110 220 330 440
 Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/19/23

File: C:\project summaries map\Lady's Island Washout/Sinkhole Repair Map 1_2023-420



Project: Lady's Island Washout/Sinkhole Repair
 Hewlett Road
 Map #2

Activity: Routine/ Preventive Maintenance














Project #: 2023-420

Township/SW Dist: Lady's Island/7

Completed: September 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 55110 220 330 440
 Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/19/23

File: C:\project summaries map\Lady's Island Washout/Sinkhole Repair Map 2_2023-420



Project: Lady's Island Washout/Sinkhole Repair
Salicornia Drive Map #3

Activity: Routine/ Preventive Maintenance














Project #: 2023-420

Township/SW Dist: Lady's Island/7

Completed: September 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 55110 220 330 440
Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/19/23

File: C:\project summaries map\Lady's Island Washout/Sinkhole Repair Map 3_2023-420



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Martha Lane

Activity: Routine/Preventive Maintenance

Duration: 06/28/2022 - 08/10/2022

Narrative Description of Project:

Project improved 904 L.F. of drainage system. Cleaned out 904 L.F. of roadside ditch.

2023-571 / Martha Lane	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
AUDIT / Audit Project	2.00	\$65.48	\$0.00	\$0.00	\$0.00	\$40.42	\$105.90
HAUL / Hauling	36.00	\$1,067.76	\$533.68	\$251.52	\$0.00	\$363.12	\$2,216.08
RSDCL / Roadside Ditch - Cleanout	48.00	\$1,562.28	\$211.75	\$215.64	\$0.00	\$964.32	\$2,953.99
UTLOC / Utility locates	0.50	\$20.86	\$0.00	\$0.00	\$0.00	\$0.00	\$20.86
Grand Total	86.50	\$2,716.38	\$745.43	\$467.16	\$0.00	\$1,367.86	\$5,296.83

(Before)



(During)



(After)



Project: Martha Lane

Activity: Routine/
Preventive
Maintenance

Project #:
2023-571

Township/SW Dist:
Bluffton/4

Completed:
August 2022



Cleaned out 457 L.F.
of roadside ditch.

Cleaned out 447 L.F.
of roadside ditch.

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



1 inch = 100 feet

Prepared By: BC Stormwater Management Utility
Date Print: 01/26/23
File: C:\project summaries map\Martha Lane_2023-471



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Oakmont S/D - Elderberry Drive and Summer Drive

Activity: Routine/Preventive Maintenance

Duration: 08/10/2021 - 11/02/2022

Narrative Description of Project:

Replaced (1) driveway pipe and (1) crossline pipe. Jetted (1) driveway pipe.

2022-505 / Oakmont S/D Elderberry Drive and Summer Drive

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
Regular	OT	Cost	Cost	Cost	Cost	Total Cost	
ASI / Asphalt Installation	0.00	\$0.00	\$0.00	\$0.00	\$4,900.00	\$0.00	\$4,900.00
AUDIT / Audit Project	1.00	\$32.74	\$0.00	\$0.00	\$0.00	\$20.21	\$52.95
DPJT / Driveway Pipe - Jetted	4.00	\$130.64	\$76.64	\$17.54	\$0.00	\$80.64	\$305.46
DPRPL / Driveway Pipe - Replaced	32.00	\$976.15	\$120.68	\$682.22	\$0.00	\$325.04	\$2,104.08
Fac040 / New Construction Project	3.00	\$125.16	\$13.05	\$8.24	\$0.00	\$0.00	\$146.45
HAUL / Hauling	24.00	\$748.59	\$457.44	\$360.05	\$0.00	\$462.08	\$2,028.15
PA / Project Assit	3.00	\$125.16	\$13.05	\$10.86	\$0.00	\$0.00	\$149.07
PRRECON / Project Reconnaissance	2.00	\$83.44	\$8.70	\$7.24	\$0.00	\$0.00	\$99.38
UTLOC / Utility locates	2.00	\$53.37	\$4.29	\$4.92	\$0.00	\$41.88	\$104.46
Grand Total	71.00	\$2,275.24	\$693.85	\$1,091.06	\$4,900.00	\$929.85	\$9,890.00

Before

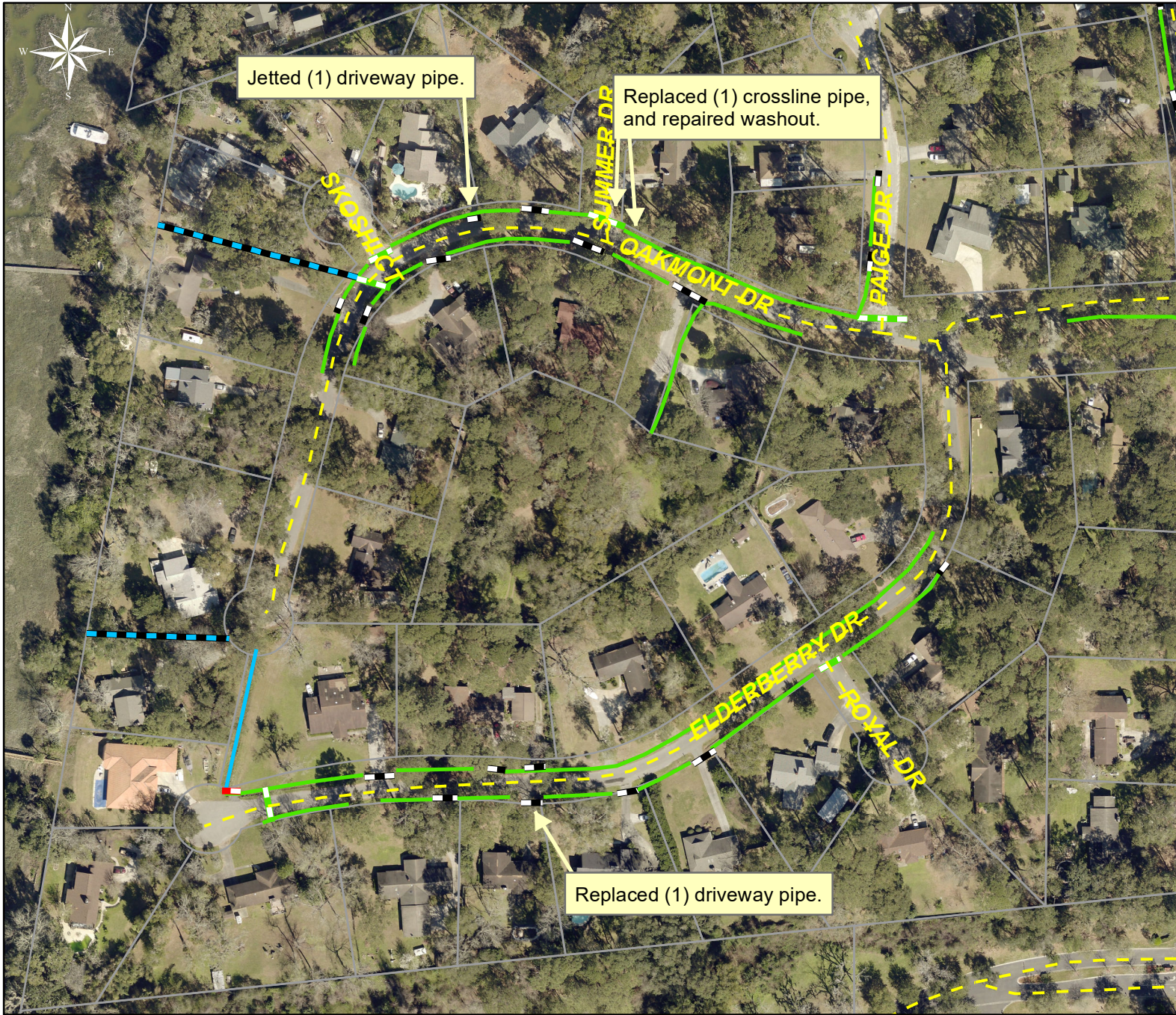


During



After





Project: Oakmont S/D-
Elderberry Drive and
Summer Drive

Activity: Routine/
Preventive Maintenance

Project #:
2022-505

Township/SW Dist:
Port Royal Island/6

Completed:
November 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: 01/06/22

File: C:\project summaries map\Oakmont S/D Elderberry and Summer Drive_2022-505



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Port Royal Island Tree Removal - Patterson Road, Pinewood Circle, Stanley Road, Quail Ridge Circle W, Franklin Drive, Powell Drive, Huspah Court S and Country Manor Road.

Activity: Routine/Preventive Maintenance

Duration: 08/26/2022 - 11/30/2022

Narrative Description of Project:

Removed fallen trees from roadside and workshelf.

2023-414/Port Royal Island Tree Removal

	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	33.25	\$1,105.69	\$633.75	\$471.25	\$0.00	\$608.49	\$2,819.17
ONJV / Onsite Job Visit	15.00	\$625.80	\$60.90	\$26.53	\$0.00	\$0.00	\$713.23
RMTR / Remove trees-roads	6.00	\$196.70	\$30.17	\$15.72	\$0.00	\$121.42	\$364.01
RMTRD / Remove trees - Ditch	46.00	\$1,160.18	\$419.19	\$141.61	\$0.00	\$353.66	\$2,074.64
RMTRW / Remove trees - Workshelf	78.00	\$2,272.16	\$556.24	\$142.98	\$0.00	\$1,241.68	\$4,213.06
Grand Total	179.25	\$5,393.26	\$1,700.25	\$798.09	\$0.00	\$2,345.46	\$10,237.06

Before



During



After

(No Picture Available)



Project: Port Royal
Island Tree Removal
Patterson Road
Map #1

Activity: Routine/
Preventive
Maintenance

Project #:
2023-414

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

Completed:
November 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: 05/26/22

File: C:\project summaries map\Port Royal Island Tree Removal Map 1_2023-414



Project: Port Royal
Island Tree Removal
Quail Ridge Circle
Map #2

Activity: Routine/
Preventive
Maintenance














Project #:
2023-414

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

Completed:
November 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

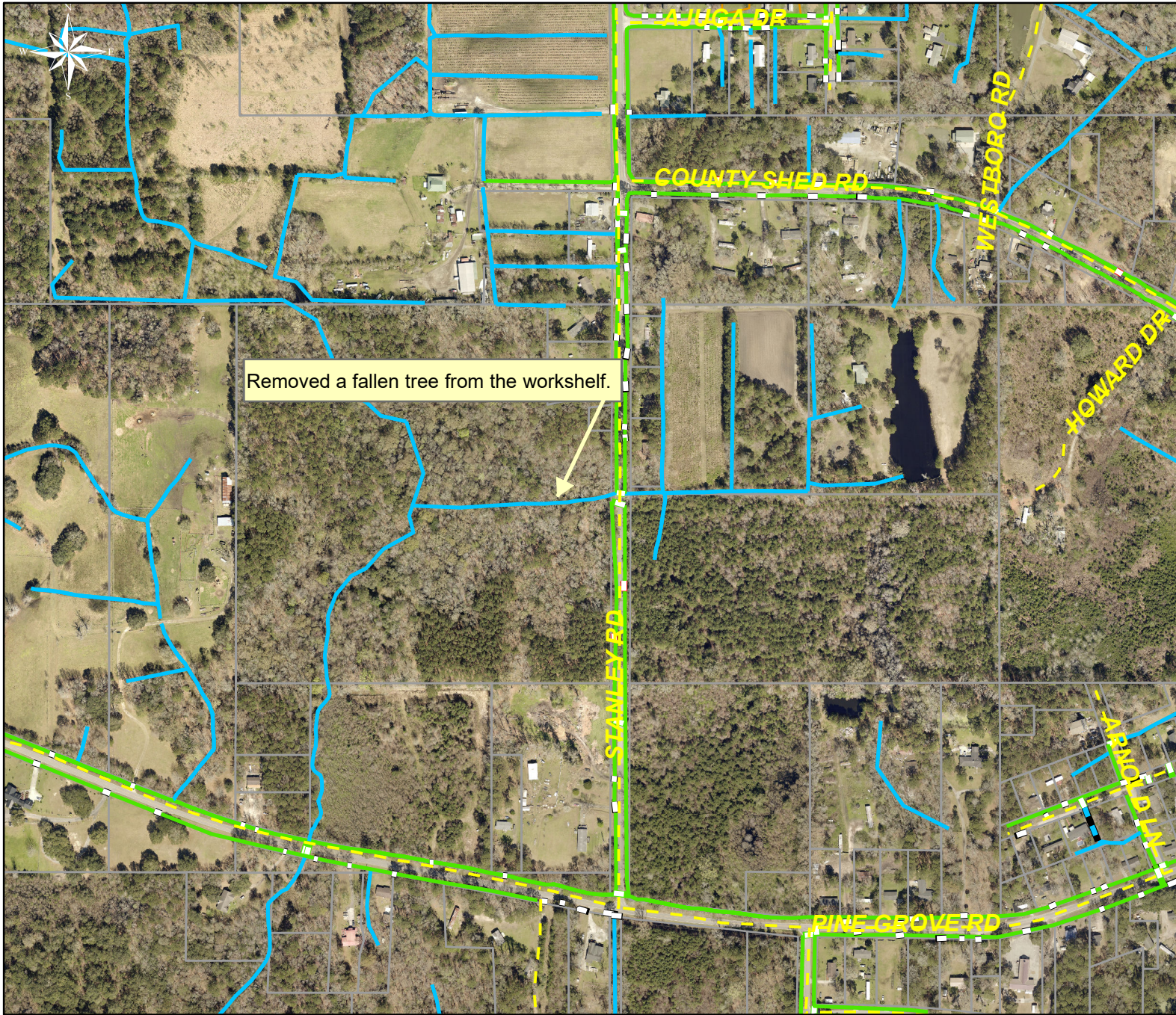


1 inch = 67 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\Port Royal Island Tree Removal Map 2_2023-414



Project: Port Royal
Island Tree Removal
Stanley Road
Map #3

Activity: Routine/
Preventive
Maintenance














Project #:
2023-414

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

Completed:
November 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: 05/26/22

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

Project: Port Royal
Island Tree Removal
Pinewood Circle
Map #4

Activity: Routine/
Preventive
Maintenance

Project #:
2023-414

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

Completed:
November 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 70 140 280 420 560
Feet

1 inch = 420 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

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

Project: Port Royal
 Island Tree Removal
 Franklin Drive
 Map #5

Activity: Routine/
 Preventive
 Maintenance

Project #:
 2023-414

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

Completed:
 November 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: 05/26/22
 File: C:\project summaries map\Port Royal Island Tree Removal Map 5_2023-414



Project: Port Royal
Island Tree Removal
Huspah Court S
Map #6

Activity: Routine/
Preventive
Maintenance














Project #:
2023-414

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

Completed:
November 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

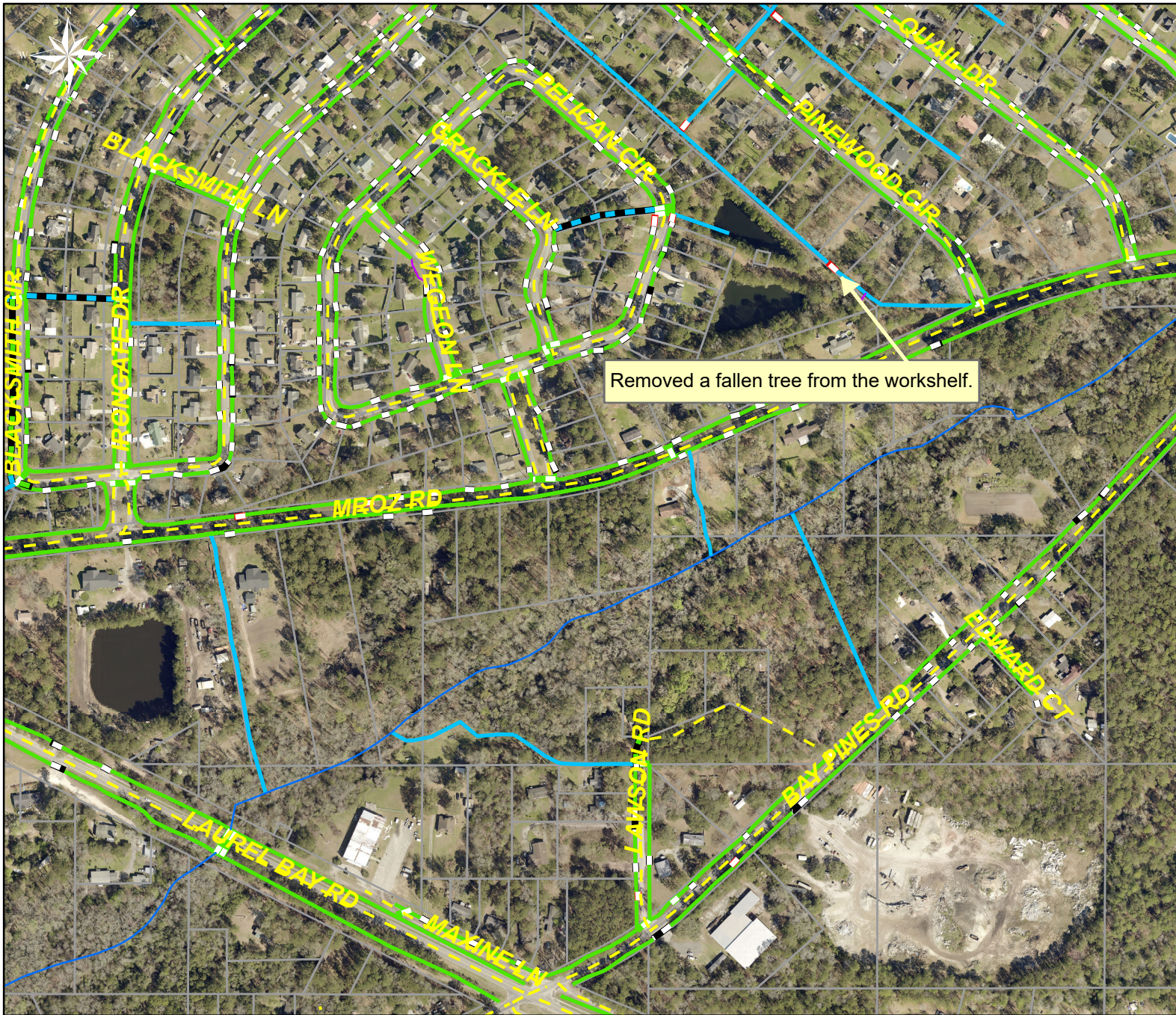
0 25 50 100 150 200
Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\Port Royal Island Tree Removal Map 6_2023-414



Project: Port Royal
Island Tree Removal
Pinewood Circle
Map #7

Activity: Routine/
Preventive
Maintenance














Project #:
2023-414

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

Completed:
November 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 70 140 280 420 560
Feet

1 inch = 420 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\Port Royal Island Tree Removal Map 7_2023-414



Project: Port Royal
Island Tree Removal
County Manor Road
Map #8

Activity: Routine/
Preventive
Maintenance














Project #:
2023-414

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

Completed:
November 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 70 140 280 420 560
Feet

1 inch = 420 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/26/22

File: C:\project summaries map\Port Royal Island Tree Removal Map 8_2023-414



Project: Port Royal
Island Tree Removal
Powell Drive
Map #9

Activity: Routine/
Preventive
Maintenance

Project #:
2023-414

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

Completed:
November 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 = 420 feet

Prepared By: BC Stormwater Management Utility
Date Print: 05/26/22
File: C:\project summaries map\Port Royal Island Tree Removal Map 9_2023-414



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Port Royal Island Vacuum Truck
Ard Drive, Trask Parkway and Franklin Drive.

Activity: Routine/Preventive Maintenance
Duration: 09/15/2022 - 11/04/2022

Narrative Description of Project:

Cleaned out (1) catch basin, jetted (1) crossline pipe and (7) driveway pipes.

2023-306 / Port Royal Island Vacuum Truck	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
CBCO / Catch basin - clean out	6.00	\$169.28	\$85.34	\$22.16	\$0.00	\$77.68	\$354.46
CLPJT / Crossline Pipe - Jetted	16.00	\$503.37	\$341.36	\$230.00	\$0.00	\$310.72	\$1,385.45
DPJT / Driveway Pipe - Jetted	24.00	\$677.13	\$306.56	\$116.00	\$0.00	\$310.72	\$1,410.41
Grand Total	48.00	\$1,415.25	\$733.26	\$368.16	\$0.00	\$739.54	\$3,256.21

(No Pictures Available)



Project: Port Royal
Island Vacuum Truck
Ard Road
Map #1

Activity: Routine/
Preventive
Maintenance

Project #:
2023-306

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

Completed:
November 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 55110 220 330 440
Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print:01/13/23

File:C:\project summaries map\Port Royal\Island Vac Truck Map 1_2023-302



Project: Port Royal
Island Vacuum Truck
Trask Parkway
Map #2

Activity: Routine/
Preventive
Maintenance














Project #:
2023-306

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

Completed:
November 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 40 80 160 240 320
Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/13/23

File: C:\project summaries map\Port Royal\Island Vac Truck Map 8_2023-306



Project: Port Royal
Island Vacuum Truck
Franklin Drive
Map #3

Activity: Routine/
Preventive
Maintenance

Project #:
2023-306

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

Completed:
November 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: 01/13/23

File: C:\project summaries map\Port Royal\Island Vac Truck Map 3_2023-306



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Port Royal Island Washout/Sinkhole Repairs

Activity: Routine/Preventive Maintenance

Providence Road, Burton Wells Road, Green Pond, Aministrative Building Parking Lot, Blacksmith Circle and Paukie Island Road.

Duration: 07/28/2022 - 12/16/2022

Narrative Description of Project:

Repaired washouts and sinkholes.

2023-421/Port Royal Island Washout/Sinkhole

Repairs	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
HAUL / Hauling	44.00	\$1,347.56	\$838.64	\$460.98	\$0.00	\$461.76	\$3,108.94
ONJV / Onsite Job Visit	11.00	\$458.92	\$47.85	\$53.39	\$0.00	\$0.00	\$560.16
RPWO / Repaired Washout	144.00	\$4,223.53	\$595.38	\$550.60	\$0.00	\$2,231.60	\$7,601.11
SR / Sinkhole repair	26.00	\$723.37	\$196.78	\$643.35	\$0.00	\$392.90	\$1,956.40
Grand Total	227.00	\$6,818.86	\$1,678.65	\$1,708.32	\$0.00	\$3,126.68	\$13,332.50

(Before)

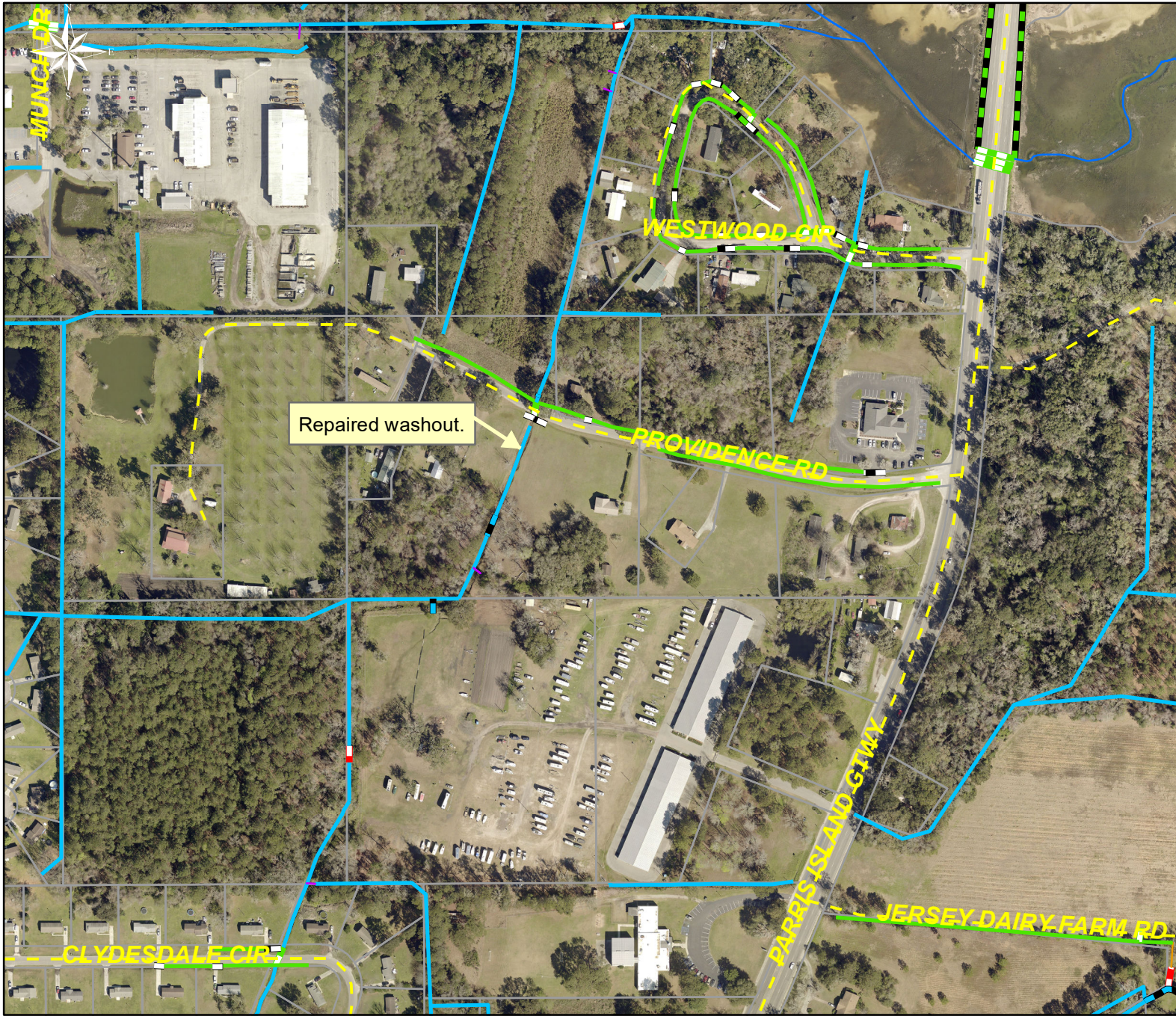


(During)



(After)





Project: Port Royal
Island Washout/
Sinkhole Repair
Providence Road
Map #1

Activity: Routine/
Preventive
Maintenance

Project #:
2023-421

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

Completed:
December 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

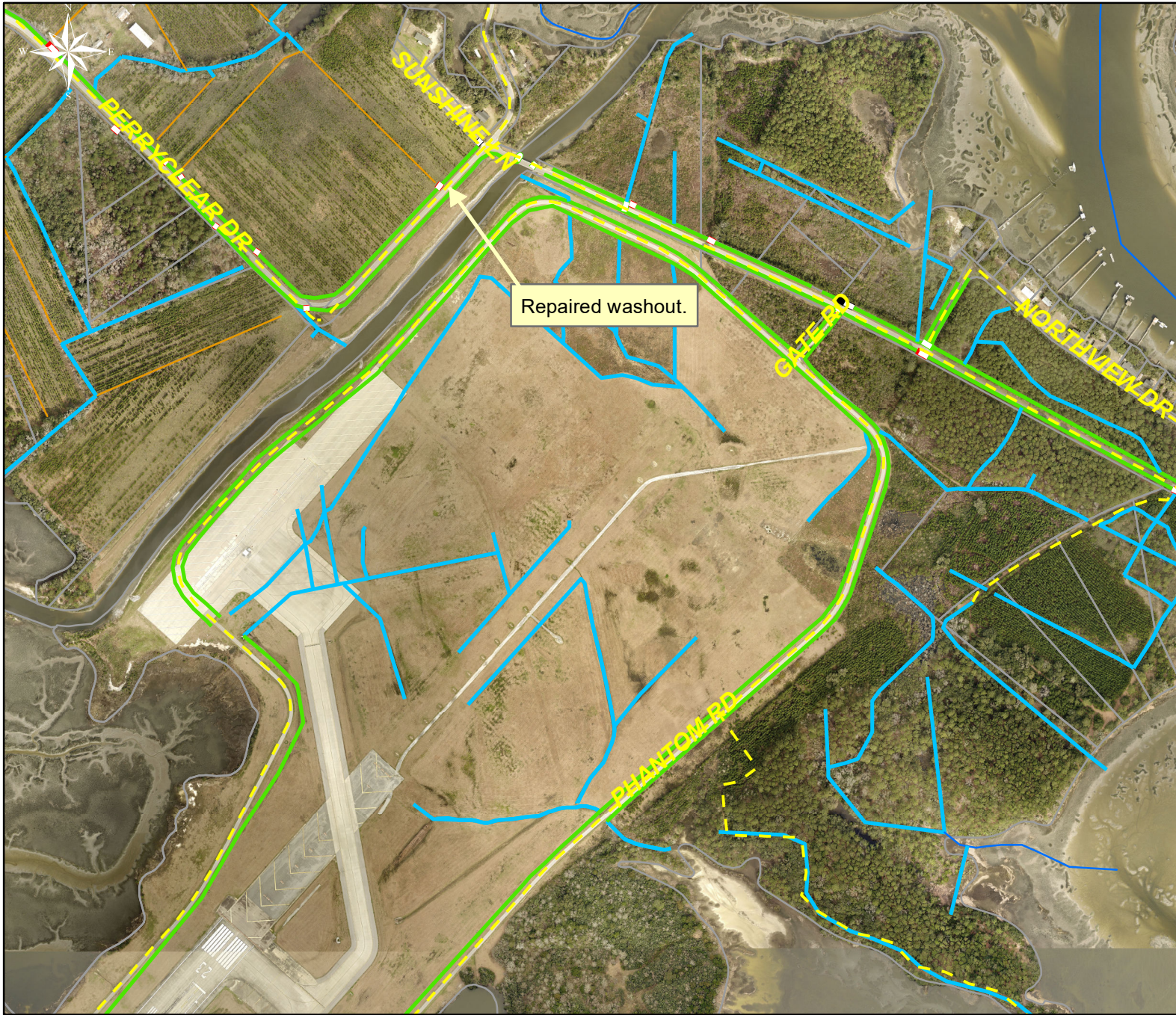
0 55 110 220 330 440
Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/19/23

File: C:\project summaries map\Port Royal\Island Washout\Sinkhole Repair Map 1_2023-421



Project: Port Royal
Island Washout/
Sinkhole Repair
Paukie Island Road
Map #2

Activity: Routine/
Preventive
Maintenance














Project #:
2023-421

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

Completed:
December 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 115230 460 690 920
Feet

1 inch = 670 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/19/23

File: C:\project summaries map\Port Royal\Island Washout\Sinkhole Repair Map 2_2023-421



Project: Port Royal
Island Washout/
Sinkhole Repair
Blacksmith Circle
Map #3

Activity: Routine/
Preventive
Maintenance

Project #:
2023-421

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

Completed:
December 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 40 80 160 240 320
Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/19/23

File: C:\project summaries map\Port Royal\Island Washout\Sinkhole Repair Map 3_2023-421



Project: Port Royal
Island Washout/
Sinkhole Repair
Burton Wells Road
Map #4

Activity: Routine/
Preventive
Maintenance














Project #:
2023-421

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

Completed:
December 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 40 80 160 240 320
Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/19/23

File: C:\project summaries map\Port Royal\Island Washout\Sinkhole Repair Map 3_2023-421



Project: Port Royal
Island Washout/
Sinkhole Repair
Green Pond
Map #5

Activity: Routine/
Preventive
Maintenance














Project #:
2023-421

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

Completed:
December 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 = 130 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/19/23

File: C:\project summaries map\Port Royal\Island Washout\Sinkhole Repair Map 5_2023-421



Project: Port Royal
Island Washout/
Sinkhole Repair
Paukie Island Road
Map #6

Activity: Routine/
Preventive
Maintenance














Project #:
2023-421

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

Completed:
December 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

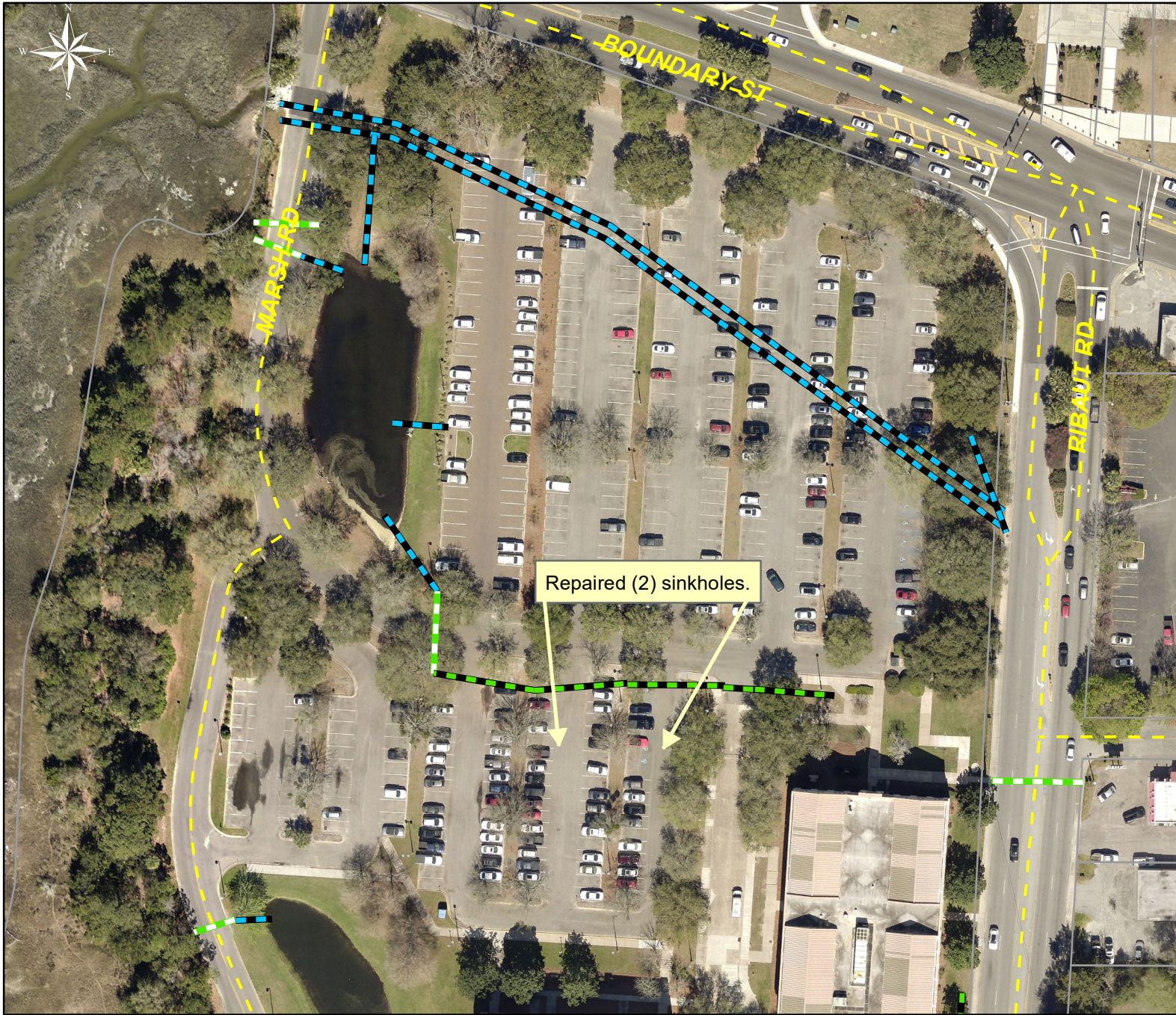
0 15 30 60 90 120
Feet

1 inch = 100 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/19/23

File: C:\project summaries map\Port Royal\Island Washout\Sinkhole Repair Map 6_2023-421



Project: Port Royal
Island Washout/
Sinkhole Repair
Administrative Building
Map #7

Activity: Routine/
Preventive
Maintenance

Project #:
2023-421

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

Completed:
December 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 = 100 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/19/23

File: C:\project summaries map\Port Royal\Island Washout\Sinkhole Repair Map 7_2023-421



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Roseida Road Ext

Activity: Routine/Preventive Maintenance

Duration: 10/17/2022 - 12/13/2022

Narrative Description of Project:

Project improved 1,050 L.F. of drainage system. Cleaned out 1,050 L.F. of channel ditch and installed (2) bleeder pipes.

2023-535 / Roseida Road Ext	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
AUDIT / Audit Project	1.00	\$32.74	\$0.00	\$0.00	\$0.00	\$20.21	\$52.95
BPINST / Bleeder pipe - Installed	24.00	\$758.03	\$156.44	\$223.20	\$0.00	\$467.92	\$1,605.59
CCO / Channel - cleaned out	36.00	\$1,137.05	\$234.66	\$172.02	\$0.00	\$701.88	\$2,245.61
CLJS / Cleaned up jobsite	48.00	\$1,516.03	\$619.56	\$256.61	\$0.00	\$935.84	\$3,328.04
HAUL / Hauling	26.00	\$898.03	\$495.56	\$199.66	\$0.00	\$554.32	\$2,147.57
UTLOC / Utility locates	0.50	\$20.86	\$0.00	\$0.00	\$0.00	\$0.00	\$20.86
Grand Total	135.50	\$4,362.73	\$1,506.22	\$851.49	\$0.00	\$2,680.17	\$9,400.61

(Before)



(During)



(After)





Project: Roseida Road Ext

Activity: Routine/ Preventive Maintenance














Project #: 2023-535

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

Completed: December 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: 01/24/23
 File: C:\project summaries map\Roseida Road_2023-535



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Sailors Choice

Activity: Routine/Preventive Maintenance

Duration: 08/10/2022

Narrative Description of Project:

Project improved 178 L.F. of drainage system. Cleaned out 178 L.F. of roadside ditch.

2023-573 / Sailors Choice

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
AUDIT / Audit Project	0.50	\$16.37	\$0.00	\$0.00	\$0.00	\$10.11	\$26.48
HAUL / Hauling	4.00	\$138.16	\$76.24	\$31.44	\$0.00	\$85.28	\$331.12
RSDCL / Roadside Ditch - Cleanout	16.00	\$520.76	\$77.74	\$93.72	\$0.00	\$321.44	\$1,013.66
UTLOC / Utility locates	0.50	\$20.86	\$0.00	\$0.00	\$0.00	\$0.00	\$20.86
Grand Total	21.00	\$696.15	\$153.98	\$125.16	\$0.00	\$416.83	\$1,392.12

(Before)



(During)



(After)





Project: Sailors Choice

Activity: Routine/ Preventive Maintenance

Project #: 2023-573

Township/SW Dist: Bluffton/4

Completed: August 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 = 83 feet

Prepared By: BC Stormwater Management Utility
 Date Print: 01/25/23
 File: C:\project summaries map\Sailors Choice_2023-573



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Sheldon Tree Removal - Kinloch Road and Page Point Bluff.

Activity: Routine/Preventive Maintenance

Duration: 07/20/2022 - 08/22/2022

Narrative Description of Project:

Removed fallen trees from roadside ditch and workshelf.

2023-415/Sheldon Tree Removal

	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	8.00	\$258.04	\$152.48	\$150.21	\$0.00	\$85.28	\$646.01
RMTR / Remove trees-roads	12.00	\$379.02	\$85.88	\$22.65	\$0.00	\$233.96	\$721.51
RMTRW / Remove trees - Workshelf	16.00	\$447.24	\$149.14	\$52.20	\$0.00	\$202.08	\$850.66
Grand Total	37.00	\$1,117.04	\$387.50	\$225.06	\$0.00	\$541.53	\$2,271.13

(Before)

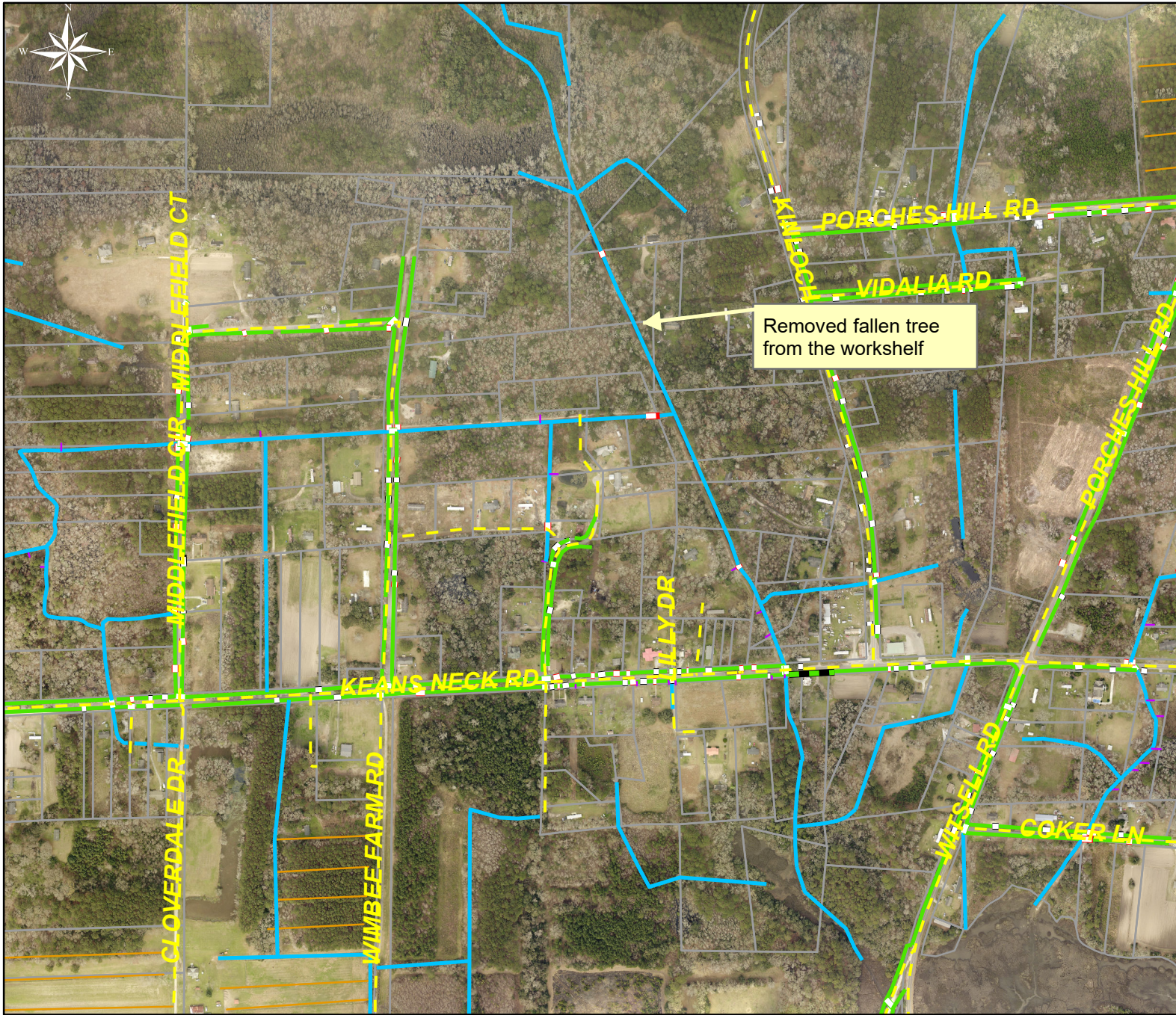


(During)



(After)





Project: Sheldon
Tree Removal -
Kinloch Road
Map #1

Activity: Routine/
Preventive
Maintenance

Project #:
2023-415

Township/SW Dist:
Sheldon/5

Completed:
August 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 115230 460 690 920
Feet

1 inch = 670 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/31/23

File: C:\project summaries map\Sheldon Tree Removal Map 1_2023-415



Project: Sheldon Tree Removal - Paige Point Bluff Map #2














Activity: Routine/ Preventive Maintenance

Project #: 2023-415

Township/SW Dist: Sheldon/5

Completed: August 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 150300 600 900 1,200 Feet

1 inch = 830 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/31/23

File: C:\project summaries map\Sheldon Tree Removal Map 2_2023-415



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: St. Helena Island Tree Removal - Avenue of Oaks, Halifax Drive, Mosse Road, Orange Grove Road and Folly Road.

Activity: Routine/Preventive Maintenance

Duration: 10/05/2022 - 11/18/2022

Narrative Description of Project:

Removed fallen trees from roadside ditches and workshelves.

2023-416/St Helena Island Tree Removal

	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	27.00	\$943.26	\$514.62	\$280.30	\$0.00	\$582.24	\$2,320.42
ONJV / Onsite Job Visit	10.00	\$417.20	\$43.50	\$17.04	\$0.00	\$0.00	\$477.74
RMTRD / Remove trees - Ditch	24.00	\$521.28	\$325.89	\$41.60	\$0.00	\$321.84	\$1,210.61
RMTRW / Remove trees - Workshelf	30.00	\$833.16	\$177.19	\$80.20	\$0.00	\$460.68	\$1,551.23
Grand Total	92.00	\$2,747.64	\$1,061.20	\$419.14	\$0.00	\$1,384.97	\$5,612.95

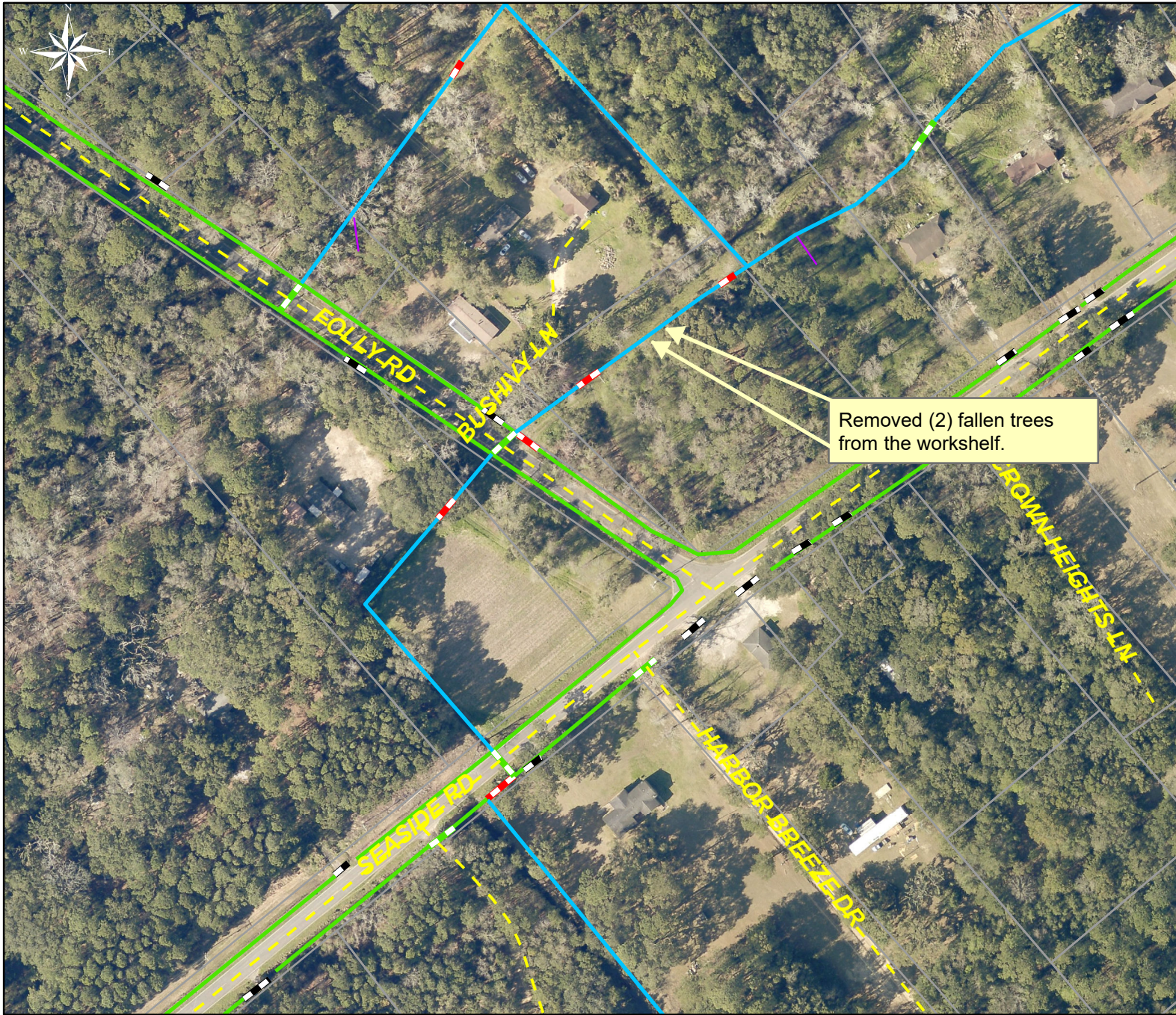
(Before)

(During)

(After)

(No Picture Available)





Project: St Helena
Island Tree Removal
Folly Road
Map #1

Activity: Routine/
Preventive
Maintenance

Project #:
2023-416

Township/SW Dist:
St Helena Island/8

Completed:
November 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

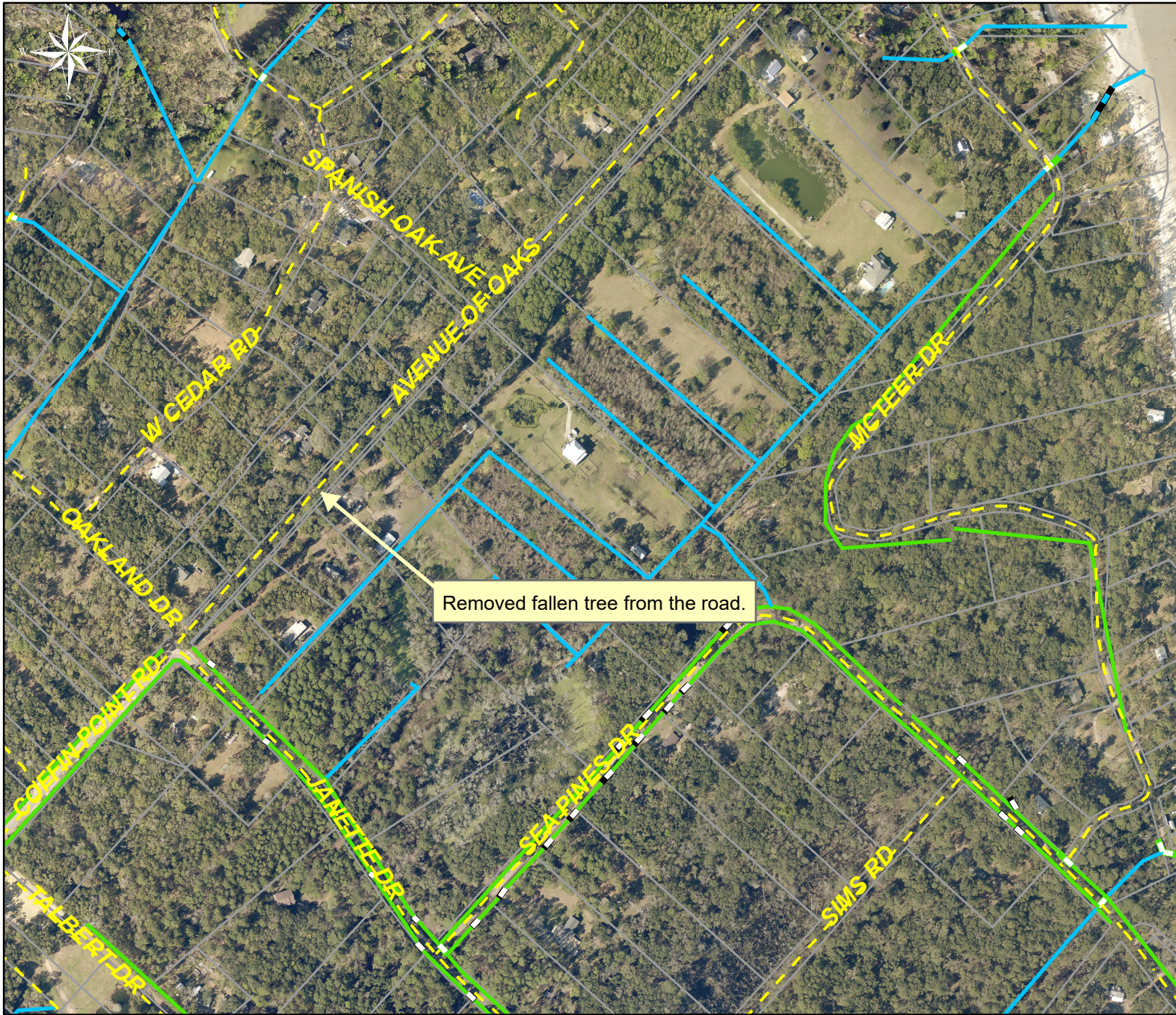
0 25 50 100 150 200
Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/18/23

File: C:\project summaries map\St Helena Island Tree Removal Map 1_2023-416



Project: St Helena
Island Tree Removal
Avenue of Oaks
Map #2

Activity: Routine/
Preventive
Maintenance














Project #:
2023-416

Township/SW Dist:
St Helena Island/8

Completed:
November 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

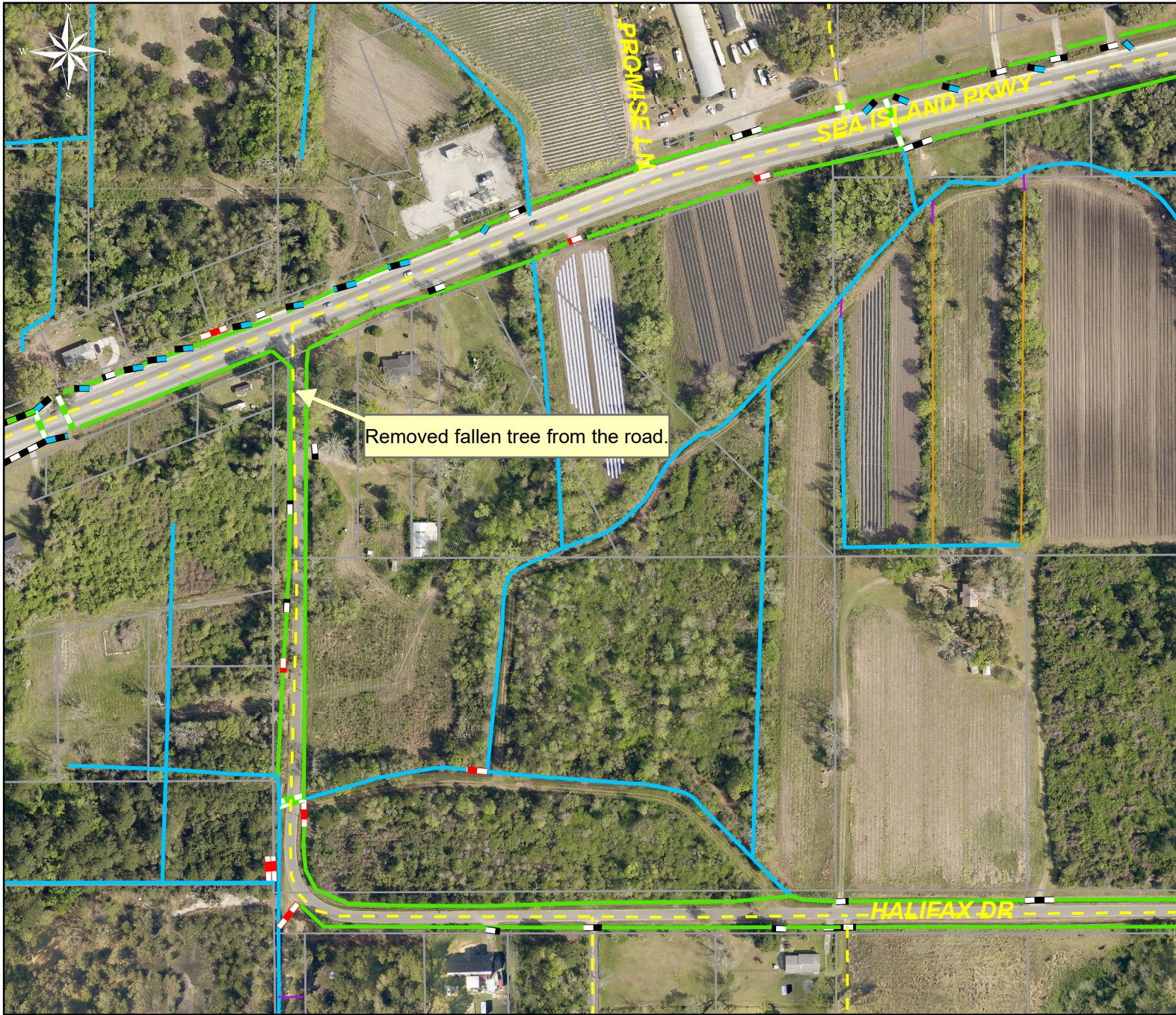
0 70140 280 420 560
Feet

1 inch = 420 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/18/23

File: C:\project summaries map\St Helena Island Tree Removal Map 2_2023-416



Project: St Helena
Island Tree Removal
Halifax Drive
Map #3

Activity: Routine/
Preventive
Maintenance














Project #:
2023-416

Township/SW Dist:
St Helena Island/8

Completed:
November 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 40 80 160 240 320
Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/18/23

File: C:\project summaries map\St Helena Island Tree Removal Map 2_2023-416



Project: St Helena
Island Tree Removal
Orange Grove Road
Map #4

Activity: Routine/
Preventive
Maintenance














Project #:
2023-416

Township/SW Dist:
St Helena Island/8

Completed:
November 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

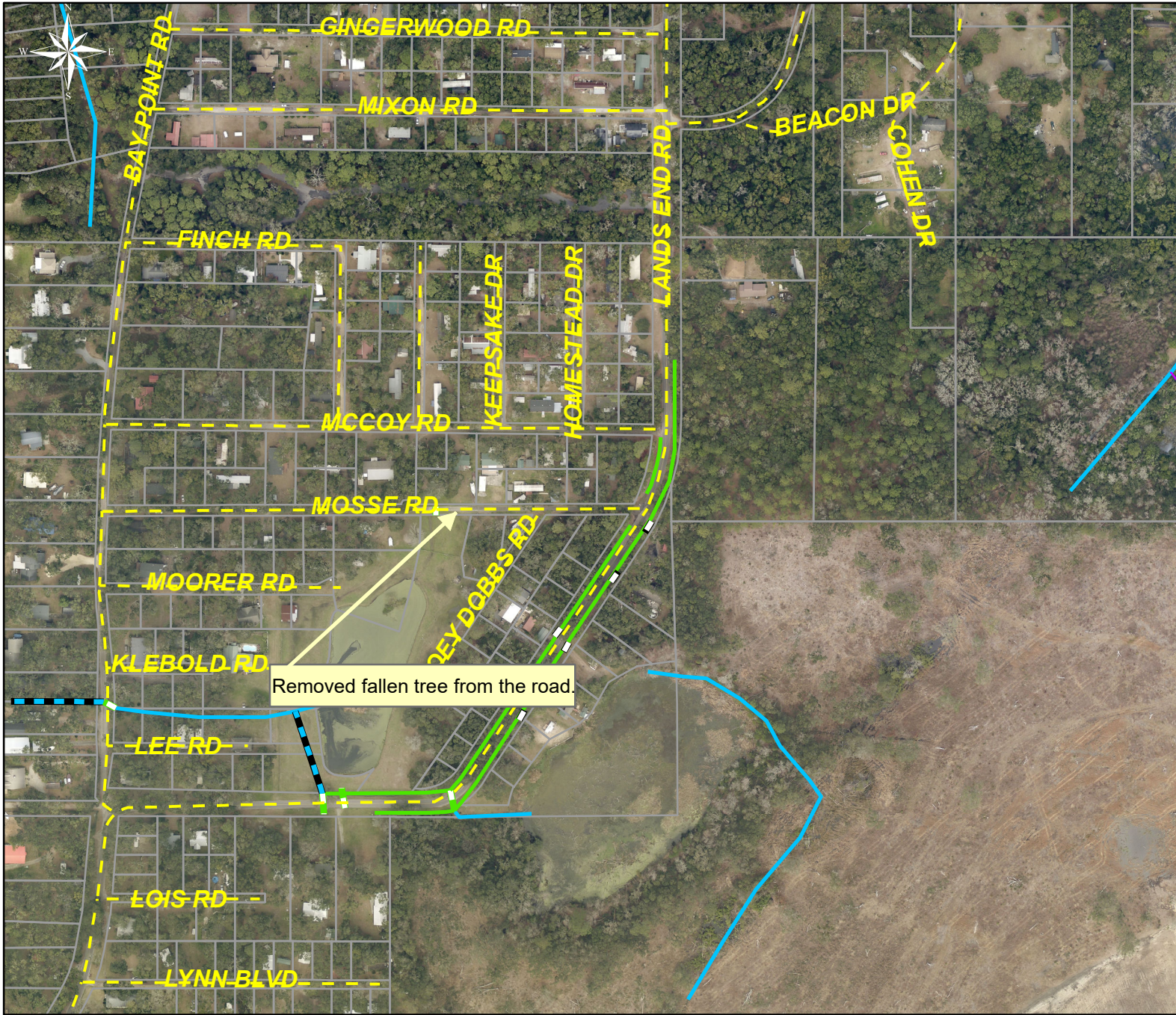
0 55110 220 330 440
Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/18/23

File: C:\project summaries map\St Helena Island Tree Removal Map 4_2023-416



Project: St Helena
Island Tree Removal
Mosse Road
Map #5

Activity: Routine/
Preventive
Maintenance

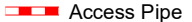












Project #:
2023-416

Township/SW Dist: St
Helena Island/8

Completed:
November 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 55110 220 330 440
Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/18/23

File: C:\project summaries map\St Helena Island Tree Removal Map 5_2023-416



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: St. Helena Island Vacuum Truck
 Faith Memorial Church, White Sands Circle, Shed Road, Hickory Hill, McTeer Drive
 and Vineyard Point Road.

Activity: Routine/Preventive Maintenance
Duration: 07/14/2022 - 12/16/2022

Narrative Description of Project:

Project improved 192 L.F. of drainage system. Jetted (26) driveway pipes, (4) crossline pipes and 192 L.F. of channel pipe.

2023-309 / St. Helena Island 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
CLPJT / Crossline Pipe - Jetted	14.00	\$420.96	\$247.32	\$124.16	\$0.00	\$233.04	\$1,025.48
CPJ / Channel Pipe - Jetted	8.00	\$246.84	\$153.28	\$38.16	\$0.00	\$152.36	\$590.64
DPJT / Driveway Pipe - Jetted	106.00	\$3,134.85	\$1,748.64	\$647.16	\$0.00	\$1,693.76	\$7,224.41
ONJV / Onsite Job Visit	3.00	\$125.16	\$13.05	\$8.70	\$0.00	\$0.00	\$146.91
Grand Total	132.00	\$3,960.56	\$2,162.29	\$818.18	\$0.00	\$2,099.37	\$9,040.40

Before

(No Picture Available)

During



After

(No Picture Available)



Project: St Helena
 Island Vacuum Truck
 McTeer Drive
 Map #1

Activity: Routine/
 Preventive
 Maintenance














Project #:
 2023-309

Township/SW Dist:
 St Helena Island/8

Completed:
 December 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

Jetted (1) crossline pipe.



1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/17/23

File: C:\project summaries map\St Helena Island Vac Truck Map 1_2023-309



Project: St Helena
Island Vacuum Truck
Vineyard Point Road
Map #2

Activity: Routine/
Preventive
Maintenance














Project #:
2023-309

Township/SW Dist:
St Helena Island/8

Completed:
December 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 55 110 220 330 440
Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/17/23

File: C:\project summaries map\St Helena Island Vac Truck Map 2_2023-309



Project: St Helena
 Island Vacuum Truck
 Faith Memorial
 Map #3

Activity: Routine/
 Preventive
 Maintenance

Project #:
 2023-309

Township/SW Dist:
 St Helena Island/8

Completed:
 December 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 55 110 220 330 440
 Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/17/23

File: C:\project summaries map\St Helena Island Vac Truck Map 3_2023-309



Project: St Helena Island Vacuum Truck
White Sands Circle
Map #4

Activity: Routine/
Preventive
Maintenance

Project #:
2023-309

Township/SW Dist:
St Helena Island/8

Completed:
December 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: 01/17/23

File: C:\project summaries map\St Helena Island Vac Truck Map 4_2023-309

Project: St Helena
Island Vacuum Truck
Shed Road
Map #5

Activity: Routine/
Preventive
Maintenance

Project #:
2023-309

Township/SW Dist:
St Helena Island/8

Completed:
December 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 = 330 feet

Prepared By: BC Stormwater Management Utility
Date Print: 01/17/23
File: C:\project summaries map\St Helena Island Vac Truck Map 5_2023-309



Project: St Helena
 Island Vacuum Truck
 Hickory hill Road
 Map #6

Activity: Routine/
 Preventive
 Maintenance

Project #:
 2023-309

Township/SW Dist:
 St Helena Island/8

Completed:
 December 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 = 420 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/17/23

File: C:\project summaries map\St Helena Island Vac Truck Map 6_2023-309



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Tammy Lane

Activity: Routine/Preventive Maintenance

Duration: 09/06/2022 - 10/26/2022

Narrative Description of Project:

Project improved 120 L.F. of drainage system. Cleaned out 120 L.F. of roadside ditch and repaired (1) driveway.

2023-523 / Tammy Lane	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
AUDIT / Audit Project	0.50	\$16.37	\$0.00	\$0.00	\$0.00	\$10.11	\$26.48
HAUL / Hauling	4.00	\$119.88	\$76.24	\$74.88	\$0.00	\$0.00	\$271.00
ONJV / Onsite Job Visit	1.00	\$41.72	\$4.35	\$2.81	\$0.00	\$0.00	\$48.88
RSDCL / Roadside Ditch - Cleanout	32.00	\$804.75	\$210.36	\$150.59	\$0.00	\$389.52	\$1,555.22
UTLOC / Utility locates	1.00	\$41.72	\$0.00	\$0.00	\$0.00	\$0.00	\$41.72
Grand Total	38.50	\$1,024.44	\$290.95	\$228.28	\$0.00	\$399.63	\$1,943.29

Before



During

(No Picture available)

After



Project: Tammy Lane

Activity: Routine/
Preventive
Maintenance

Project #:
2023-523














Township/SW Dist:
Port Royal Island/9

Completed:
October 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 = 130 feet

Prepared By: BC Stormwater Management Utility
Date Print: 01/09/23
File: C:\project summaries map\Tammy Lane_2023-523



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Wintergreen Drive

Activity: Routine/Preventive Maintenance

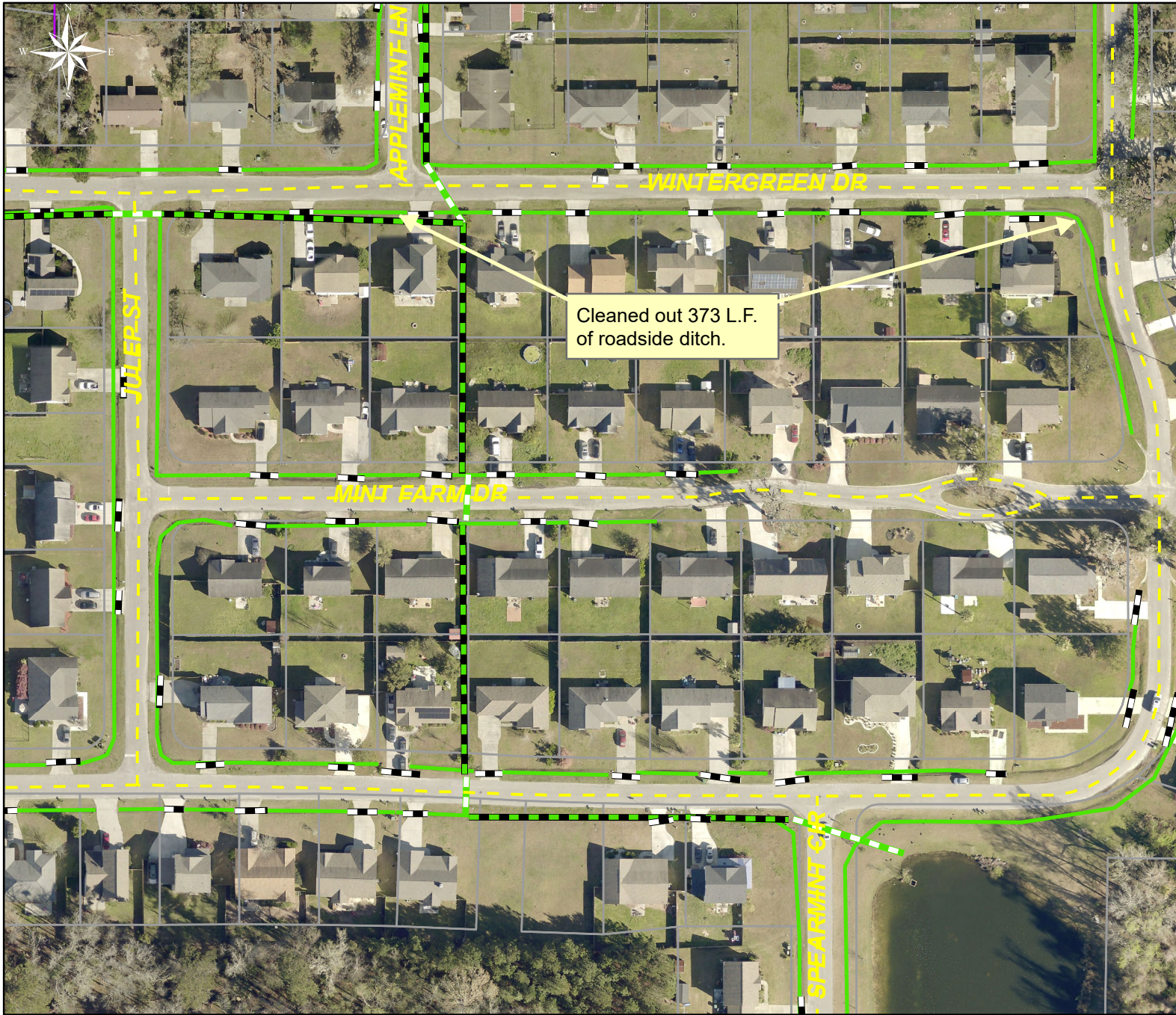
Duration: 09/06/2022 - 10/21/2022

Narrative Description of Project:

Project improved 373 L.F. of drainage system. Cleaned out 373 L.F. of roadside ditch. Jetted (7) driveway pipes and (1) crossline pipe.

2023-524 / Wintergreen Drive	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
AUDIT / Audit Project	0.50	\$16.37	\$0.00	\$0.00	\$0.00	\$10.11	\$26.48
DPJT / Driveway Pipe - Jetted	13.00	\$417.68	\$341.36	\$117.57	\$0.00	\$257.83	\$1,134.44
HAUL / Hauling	8.00	\$239.76	\$152.48	\$96.90	\$0.00	\$0.00	\$489.14
ONJV / Onsite Job Visit	2.00	\$83.44	\$8.70	\$4.21	\$0.00	\$0.00	\$96.35
RSDCL / Roadside Ditch - Cleanout	24.00	\$630.99	\$210.36	\$51.71	\$0.00	\$389.52	\$1,282.58
UTLOC / Utility locates	1.00	\$41.72	\$0.00	\$0.00	\$0.00	\$0.00	\$41.72
Grand Total	48.50	\$1,429.96	\$712.90	\$270.39	\$0.00	\$657.45	\$3,070.71

(No Pictures Available)



Project: Wintergreen Drive
Map #1

Activity: Routine/
Preventive
Maintenance

Project #:
2023-524

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

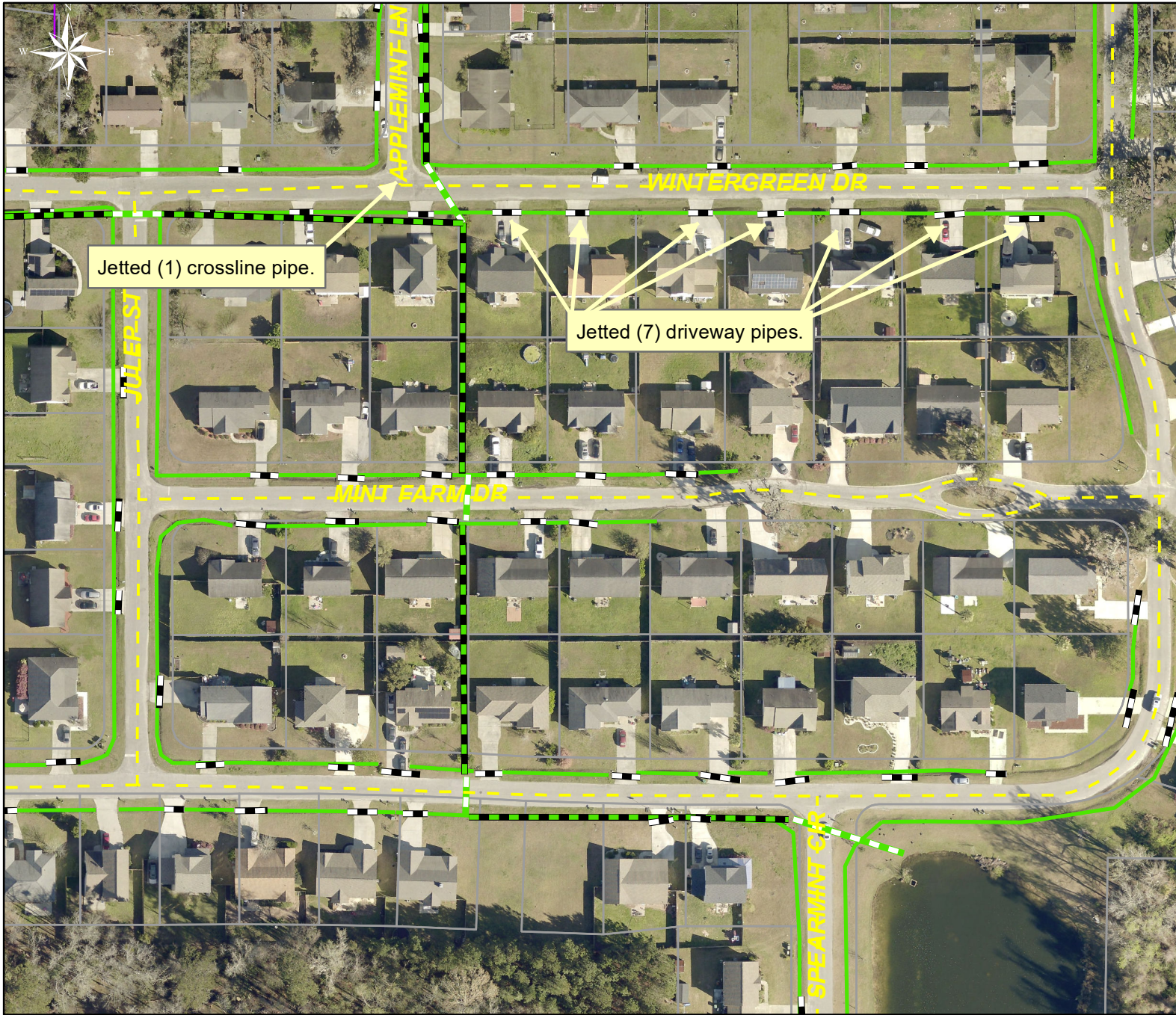
Completed:
October 2022

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 = 130 feet

Prepared By: BC Stormwater Management Utility
Date Print: 01/09/23
File: C:\project summaries map\Wintergreen Road_2023-524



Project: Wintergreen Drive
Map #2

Activity: Routine/
Preventive
Maintenance

Project #:
2023-524

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

Completed:
October 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 = 130 feet

Prepared By: BC Stormwater Management Utility
Date Print: 01/09/23
File: C:\project summaries map\Wintergreen Road Map 2_2023-524

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 2023 includes monitoring for the following categories:

Category 1: TMDL monitoring

Category 2: IDDE screening and monitoring

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

Category 4: MOA points

Category 5: Special project monitoring

Status: Fourth quarter is complete.

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 is complete.

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 2023 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. Project simulation occurred on 10/19/2022.

USCB Water Quality Laboratory

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

Status: Continued collection.

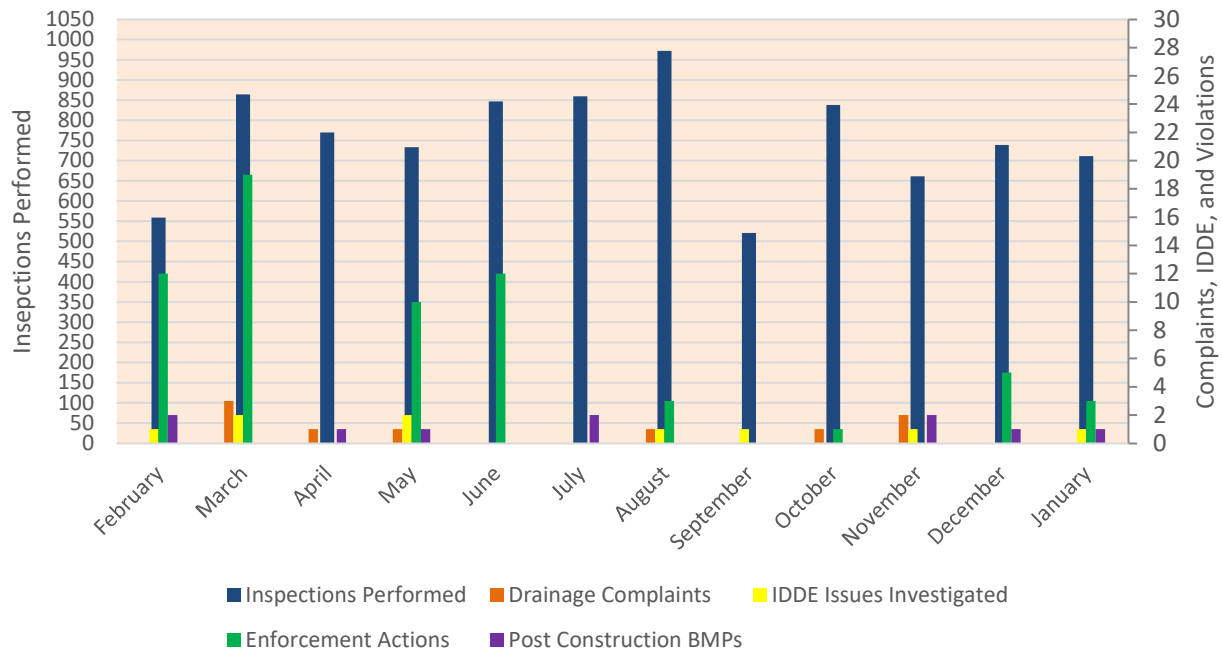
2023 Proficiency testing for the Water Pollution and Water Supply study: Annual PT testing required for all certified laboratory parameters to uphold certification. This study consists of 10 different analyses requiring the analysis of an unknown sample, which is then reported to the PT provider and the State. The passing of all analyses in the study is a requirement to keep laboratory state certification. **Status:** PTs for parameters have been ordered

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 need to be updated for 2023.

SCDHEC Tri-annual audit: SCDHEC evaluation occurred on 11/30/2022 and certified status continues.

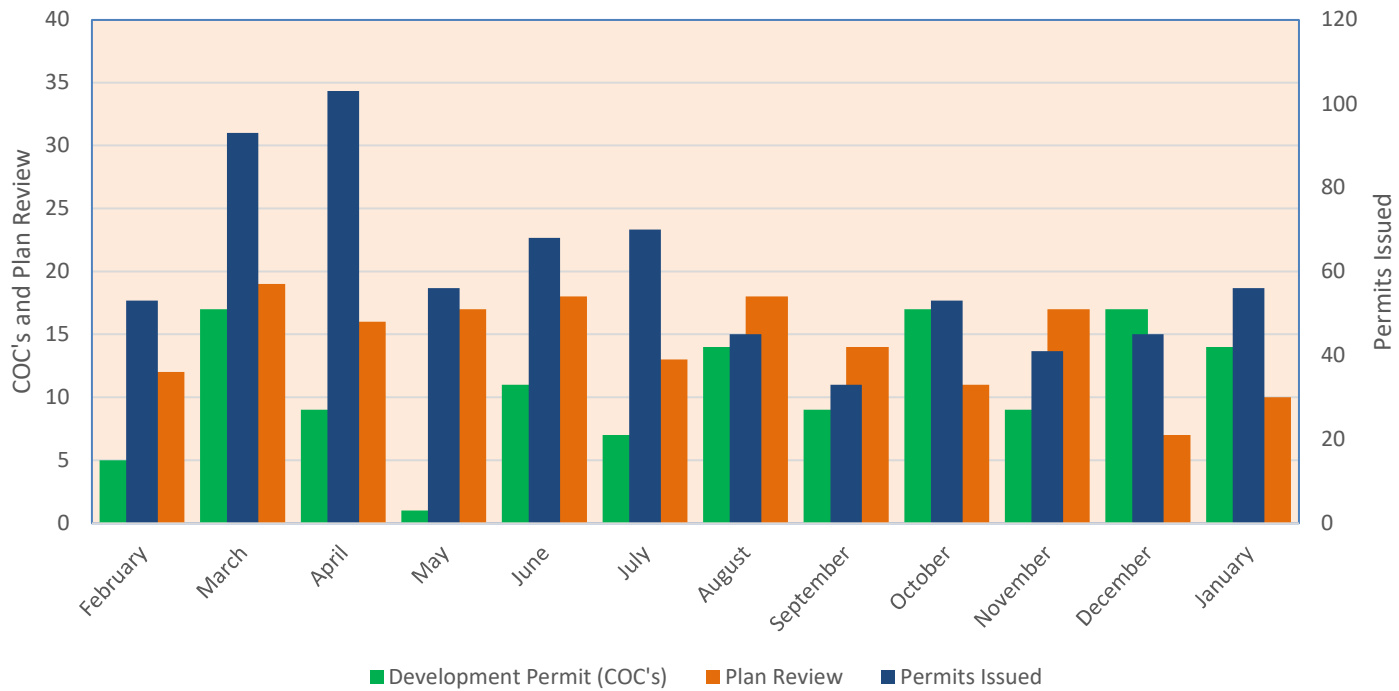
Purchases: New in-situ instrumentation purchased due to old instrumentation being obsolete and repair costs outweigh worth. New instrument is proposed to arrive 8-10 weeks after July 2022. **Status:** We are still waiting on instrument to arrive.

MS4 Minimum Control Measure #4 Erosion Sediment Control Inspections



TYPE	February	March	April	May	June	July	August	September	October	November	December	January	Last 12 Months
Inspections Performed	559	864	770	733	847	859	972	521	838	661	739	711	9074
Drainage Complaints	0	3	1	1	0	0	1	0	1	2	0	0	9
IDDE Issues Investigated	1	2	0	2	0	0	1	1	0	1	0	1	9
Enforcement Actions	12	19	0	10	12	0	3	0	1	0	5	3	65
Post Construction BMPs	2	0	1	1	0	2	0	0	0	2	1	1	10

MS4 Minimum Control Measure #5 Stormwater Plan Review



TYPE	February	March	April	May	June	July	August	September	October	November	December	January	Last 12 Months
Development Permit (COC's)	5	17	9	1	11	7	14	9	17	9	17	14	130
Plan Review	12	19	16	17	18	13	18	14	11	17	7	10	172
Permits Issued	53	93	103	56	68	70	45	33	53	41	45	56	716



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, April 19th, 2023, 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 – February 15th, 2023 ([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
- A. Utility Update – Katie Herrera ([backup](#))
 - B. Monitoring Update – Katie Herrera ([backup](#))
 - C. Stormwater Implementation Committee Report – Katie Herrera([backup](#))
 - D. Stormwater Related Projects – 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, May 17TH 2023 ([backup](#))
9. ADJOURNMENT

