



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, June 15th, 2022 2:00 p.m.
County Council Chambers
100 Ribaut Rd., 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 – May 18th, 2022 (backup)

2. INTRODUCTIONS

3. PUBLIC COMMENT

4. REPORTS

- A. Utility Update – Katie Herrera (backup)
- B. Monitoring Update – Katie Herrera (backup)
- C. Stormwater Implementation Committee Report – Katie Herrera(backup)
- D. Stormwater Related Projects – Julianna Corbin (backup)
- E. Upcoming Professional Contracts Report – Julianna Corbin (backup)
- F. Regional Coordination – Katie Herrera (backup)
- G. Municipal Reports – Katie Herrera (backup)
- H. MS4 Update – Katie Herrera(backup)
- I. Staff Update – Katie Herrera (backup)
- J. Maintenance Projects Report – Matthew Rausch (backup)
- K. Liaison Report - Ms. Alice Howard

5. UNFINISHED BUSINESS

6. NEW BUSINESS

7. PUBLIC COMMENT

8. NEXT MEETING AGENDA

- A. Wednesday, August 17TH 2022 (backup)

9. ADJOURNMENT





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

May 18th, 2022 at 2:00 p.m.
Beaufort County Council Chambers

Board Members

Present

James Clark
Allyn Schneider
Steven Andrews
Marc Feinberg
Ron Buchanan

Absent

Patrick Mitchell

Ex-Officio Members

Present

Bill Baugher
Nate Farrow
Jeff Netzinger

Absent

Van Willis

Beaufort County Staff

Katie Herrera
Neil Desai
Julianna Corbin

Visitors

Alice Howard, County Council

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

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

2. Introductions – Completed.

3. Public Comment(s) – None.

- ✓ Mr. Marc Feinberg made a public statement thanking Mr. Van Willis for hosting the Stormwater Utility Board at the Cypress Wetlands, April 18, 2022.

4. Special Presentations – None.

5. Reports

Highlights:

- ✓ The effects of the Southern Lowcountry Manual are expanding
- ✓ Stormwater is being considered for the Barret Lawrimore Award for the vast collaboration with multi municipalities in the creation and establishment of the SoLoCo Manual.
- ✓ Delinquent Accounts have been settled.
- ✓ Financial Reports are nearly complete.
- ✓ SWIC MOA's have been approved

B. Utility Update – Katie Herrera

Highlights:

- ✓ Southern Lowcountry Regional Board (SoLoCo)
 - Katie Herrera presented that the SoLoCo Presentation held in Asheville, NC. Received the NACo 2022 Achievement Award. Board members (specifically Mr. Feinberg) express their gratitude and support for Mrs. Herrera and Ms. Corbin’s achievement.

C. Monitoring Update – Katie Herrera

Highlights:

- ✓ Quarter 1-2022 - No issues; we received normal water quality samples and special projects continue.

D. Stormwater Implementation Committee (SWIC) Report – Katie Herrera

Highlights:

- ✓ We are still missing budget concurrence letters that were provided in early-February.

E. Stormwater Related Projects – Julianna Corbin

Highlights:

- ✓ Shell Point Community – The Hazard Mitigation Grant Program application was completed and we are waiting to hear back for final requirements; if necessary? Additionally, we submitted proposals for an engineer to design, permit, and engineer any projects associated with the larger project; which closed April 8, 2022.
- ✓ Factory Creek and Academy Park – The closing documents have been prepared and once the owner pays the property taxes, we will begin moving forward. Note: County cannot pay property taxes for private property. The ownership of property cannot be transferred until the current owner of the property pays property taxes. Until then, we cannot move forward with the Academy Park Pond.
- ✓ Factory Creek, Phase 2: Legal is currently routing the necessary documents.
- ✓ Graves Property and Whitehall property – Construction continues.
- ✓ Tuxedo Park Pond Dredging – We’ve had two bids; both were over budget, and due to the broad scope, the criteria could not be sufficiently met. We will resubmit a new proposal with more specified requirements that fall within our allotted perimeters.
- ✓ Huspah Court North – Will be complete within the following days and preparing to align with the drainage conveyance.

F. Professional Contracts Report – Julianna Corbin

Highlights:

- ✓ CIP – Salt Creek and Shanklin projects have been removed.
- ✓ Mossy Road – It was determined to move this project off the CIP list.
- ✓ Brewer Memorial – Construction continues. Note: The contract for that contractor ends June 10th.
 - They are waiting on supplies and materials to move along with the project.
- ✓ Evergreen Regional Pond 319 – The project has moved forward. There was a

preconstruction meeting on April 8th to discuss new plans, in which the Utilities Engineer, The County, and the Contractor were all present on-site.

- ✓ Stormwater engineering consulting services – Woolpert
 - Scope #5 – Ordered a Trash Truck to address the trash issues occurring with the Battery Creek Pond near the Walmart shopping center.
 - Scope # 8 – St. Helena Drainage Study – We are looking at different modeling methods and we are currently developing proposals to establish direction for this study.
 - Scope #9 – Arthur Horn Park 319 Grant application has been submitted, and we met on April 5th at the location with NRCS to discuss the project. Note: Application deadline was March 31st and we completed six days ahead of schedule. As a result, NCRS is advancing our funding to the second stage with the possibility of assigning a representative to engineer and design the project.
 - Scope #10 – Lady Island study is nearly monitored daily by Woolpert and surveys are being modeled.

G. Regional Coordination – Katie Herrera

Highlights:

- ✓ Mossy Oaks – Continue working with USCB to monitor the effects of construction has had on the water quality.
- ✓ Due to retrofitting of Arthur Horn Park, Katie and Danielle have weighed the extension of special water quality monitoring with intent of capturing prior, during and after construction phases.

H. Municipal Reports – Katie Herrera

Reports attached in agenda

Highlights:

Reports information.

- ✓ Town of Bluffton (Mr. Bill Baugher welcomes Mr. Ron Buchanan as the newest board member.)
 - 319 Grants for Bridge Street and construction should begin next month.
 - Receiving In-Line BMPs.
 - Signed contract for four in-stream constant flow monitoring equipment.
- ✓ Town of Hilton Head Island (Jeff Netzinger, Ex-Officio Member)
 - \$1M in capital improvements have been authorized.
 - Addressing small drainage issues.
 - Jacob Neary is the new MS4 Coordinator.

I. MS4 Update – Katie Herrera

Highlights:

- ✓ Record numbers of permits.
- ✓ Seeking to add a Senior Level Inspector to the Stormwater Inspection Team.
- ✓ Earth Month; had several hundred bags of trash picked up and was a large success with significant attendance for the public event on Marine Corps Recruit Depot, Parris Island.
- ✓ DHEC is hoping to have the industrial general permit distributed by June 1st. There

has been no progress on the Phase II area of permitting due to a conflicting definition of an Urbanized Area.

- ✓ Budget
 - Reserve budget covers 2% unaccounted for the increase from 3% to 5% toward the Cost of Living Allowance.
- ✓ Julianna Corbin was recognized for her involvement in the *Hydrologic Modeling of Urban Development Scenarios and Low Impact Design Systems on an Undisturbed Coastal Forested Watershed Under Extreme Runoff Events and Hydro Meteorological in a Changing Climate*.

I. Maintenance Projects Report- Katie Herrera

Highlights:

- ✓ Vacuum Truck should be coming back online for future use. One of our most utilized pieces of equipment.

J. Liaison Report – Beaufort County Council – Alice Howard

Highlights

- ✓ Budget Reading
- ✓ Cost of Living raised to 5%
- ✓ Seeking to raise the teacher's salary
- ✓ Shell Point easement meeting was successful
- ✓ Positive reactions for Arthur Horne Grant

6. Unfinished Business – None

7. New Business – Marc Feinberg

- ✓ Recommendation to award J Brad & Consulting firm: motion passes.
- ✓ Next SWUB meeting recommended to be held at Evergreen Pond: motion passes.
- ✓ Next agenda: motion passes.

8. No Public Comment

9. Meeting Adjourned



**BEAUFORT COUNTY
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April 2022

Stormwater Manager's Report for the Stormwater Utility Board Meeting

Utility Update

1. Southern Lowcountry Regional Board (SoLoCo)
 - a) The current schedule for completion and finalization on the document and activities of Center for Watershed Protection (CWP) is as follows:
2. Regionalization
 - a) Staff continues to support coordination on permitting standards. Scheduling a meeting with the technical subcommittee should be early May.
 - b) Staff continues to support other municipalities in their efforts to move forward with adoption.
 - c) Amendments to manual and ordinance were approved and are effective as of February 1st, 2022.
 - d) Katie Herrera and Kim Jones presented the implementation efforts of SoLoCo at SCASM on June 2nd.
 - e) Upcoming SoLoCo presentations – StormCon (September – MD), SESWA (October – HHI)
3. Special presentation suggestions –
 - Suggestions for Future Meetings
 - Research performed by Dr. Montie – Summer 2022
 - Open House – Evergreen Regional Pond
 - Mike Johnson – CP&P Pipe
4. Military installation and other State and Federal properties SWU fees – See “Delinquent Accounts” below.
5. Delinquent accounts – Phase I Investigations with Gentry Locke Attorneys (looking at data, laws, ordinances, synopsis of case law) to provide recommendations and likely outcomes of either negotiations or litigation.
 - IGA amendments for the Town of Port Royal have been approved. At time of report, still awaiting copies.

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

Monitoring Update

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

Stormwater Implementation Committee (SWIC) Report

1. No update at the time of 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 coming in. 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 – Approval Process for J. Bragg Consulting, Inc continues at Natural Resource Committee on June 6 and County Council on June 13th, June 27th, and July 11th. Staff continues to work with our Right of Way Manager to work with homeowners in necessary easement areas.
3. Factory Creek Watershed Regional Detention Basin “Phase II” (Design Cost = \$63,390, Tree Mitigation Cost is pending, Construction Cost by the Developer) – County staff working with property owner to continue discussions of easement obtainment. Staff met with the property owner on May 6th.
4. Graves Property / Pepper Hall Public / private partnership – Construction continues on site
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- Request for Proposals document in review by Purchasing Department prior to being posted
8. Huspah Court North- Design work complete and bid documents are being prepared.

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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 – Construction on site continues and will wrap up at the end of the month. Major milestones to completion include pouring pervious and traditional concrete in parking areas, striping, and landscaping.

2. Evergreen Regional Pond 319 grant project – (Design=\$89,286, Construction=\$590,000. Grant=\$229,124) – Contractor is scheduling work to be done to the catch basin. Project will be complete at the end of this month as it is not budgeted for in FY23

3. Stormwater engineering consulting services – Woolpert
 - a) Scope #1 – General Services – Anything relating to Stormwater as a catch all scope. Allocated Funds – \$15,000.00.
 - b) Scope #2 – Southern Lowcountry Design Manual Training – This was completed prior to June of this year. Training set up for in house staff as well as developers in the County. Allocated funds - \$30,000.00.
 - c) Scope #3 – Comprehensive program audit. Reviewing all components of the MS4 program, CIP list, Utility, asset management, etc. Allocated funds - \$105,000.00. Audit has been completed. Staff are making adjustments to program in accordance with recommendations of the audit.
 - d) Scope #4 – Tax Run and Utility assistance. In the event the County needed assistance with assessing SW Fees, we have them available on call. We will also look to have them QA/QC data from previous years. Allocated funds - \$29,900.00.
 - e) Scope #5 – Battery Creek Pond - Woolpert analyzed the Battery Creek Burton Hill M2 pond for potential deficiencies that are causing excess trash to end up in the overflow ditch that leads to the marshes of Battery Creek, bypassing the trash rack. The standard grate trash rack ordered to replace the existing rack has been delivered and will be installed soon.
 - f) Scope #6 – Turtle Lane drainage study. Continuously flooded property, Stormwater staff wanted to determine if it would be useful to purchase and put BMP in place. Determination was no BMP yet but could fit into larger study of Northern Lady’s Island. Allocated funds - \$10,000.00. Project Completed.
 - g) Scope #7 – NPDES SMS4 general permit assistance
 - h) Scope #8 – St. Helena Drainage Study. Staff have seen initial modeling information. Request for more information needed to model future conditions.
 - i) Scope #9 – Arthur Horne Park 319 Grant Funding – Grant applied for. Staff received word from NRCS on May 16th that the project was granted funding for a Preliminary Investigation Feasibility Report (PIFR)- the first step in a multi-year funding opportunity. Staff spoke with NRCS State Conservation Engineer on May 19th to learn more about the opportunity and look forward to pursuing this.
 - j) Scope #10 – Lady’s Island Drainage Study Phase I – QA/QC continues, model to be constructed soon.

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Regional Coordination

1. Mossy Oaks Task Force – County working with USCB on water quality monitoring efforts.

Municipal Reports

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

MS4 Report

1. Plan Review – [See the attached chart](#) for Beaufort County Stormwater staff plan review workload for the past 12 months.
2. Stormwater Permits – [See the attached chart](#) for Beaufort County Stormwater permits issued for the past 12 months.
3. Monthly Inspection summary - [See the attached chart](#) for Beaufort County Stormwater staff inspection, complaint, IDDE, and violations summary for the past 12 months.
4. Weather Station Data – Report unavailable.
5. Public Education – [See attached report.](#)
6. Energov permitting software – Staff continues to work with IT and Energov staff on any issues that arise.
7. MS4 Statewide General permit – No update at this time.

Staff Update

1. The Department continues to conduct interviews for all vacant positions in Stormwater Infrastructure - ((1) Foreman, (2) Equipment Operator I, and (5) Maintenance Workers).
2. Scott Youmans and Judah Wood received their Post Construction BMP Inspector certifications.

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3. Bradley Harriot was recently hired as a new foreman.
4. Mitch York recently received his CDL permit, and is currently working for his full license.

USCB Water Quality Lab Update

Beaufort County

Contract Renewal: Current contract is set to expire on 6/30/22. This will be on the agenda for approval at the June 6th Natural Resources Committee Meeting. Purchasing decided it would need to be approved by Committee first before moving forward with our Administrators signature.

Monitoring for 2022 includes monitoring for the following categories:

Category 1: TMDL monitoring

Category 2: IDDE screening and monitoring

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

Category 4: MOA points

Category 5: Special project monitoring

Status: First quarter of 2022 is finished with all sites scheduled collected. Second quarter has begun.

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 will be complete at the end of May 2022. Last collection occurred on 5/26/22.

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.

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: First quarter of 2022 is finished with all sites scheduled collected. Second quarter has begun.

Town of Bluffton

Monitoring for 2022 includes monitoring for the following categories: MS4, TMDL, Monthly, MST, CIP, MRWAP and shared locations. Also, sample collection began for Bridge Street sites for wet weather.

Status: Monitoring for 2022 will begin with additional sampling sites and increased frequency of 2X a month including help of WQL staff collecting samples. WQL staff sample collection no longer needed as TOB is fully staffed. Bridge St. site collection is ceased due to lack of access sites.

Memorandum of Understanding: An amendment to the current MOU is generated for the purposes of additional sampling efforts by the Town of Bluffton and has been fully executed. Annual approval to continue services has been submitted to USCB's Grant department.

USCB Water Quality Laboratory

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

Status: One wet and one dry event along with additional parameters requested have been collected.

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

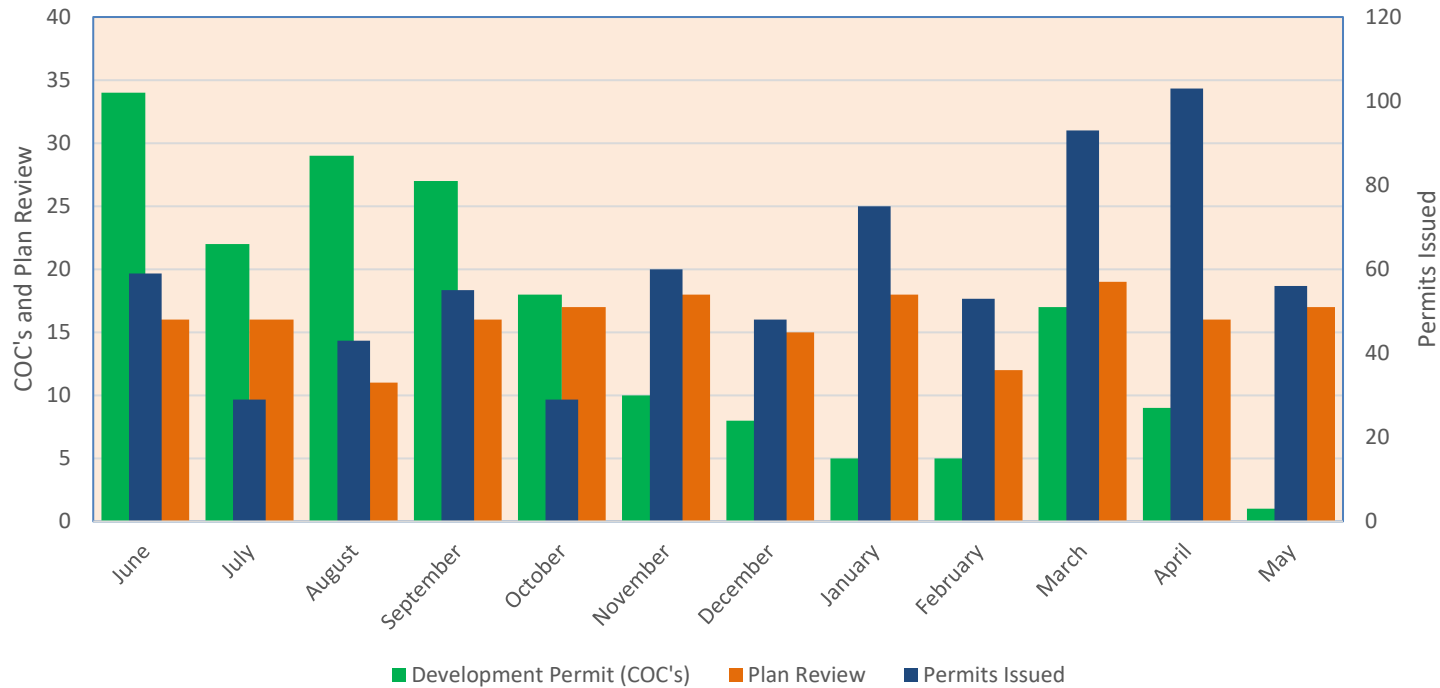
Status: PT studies for all parameters have passed.

Standard Operating Procedures and Quality Assurance Manual: Annual update of these documents in its entirety are required to uphold State laboratory certification.

Status: All SOP's and QAM updated.

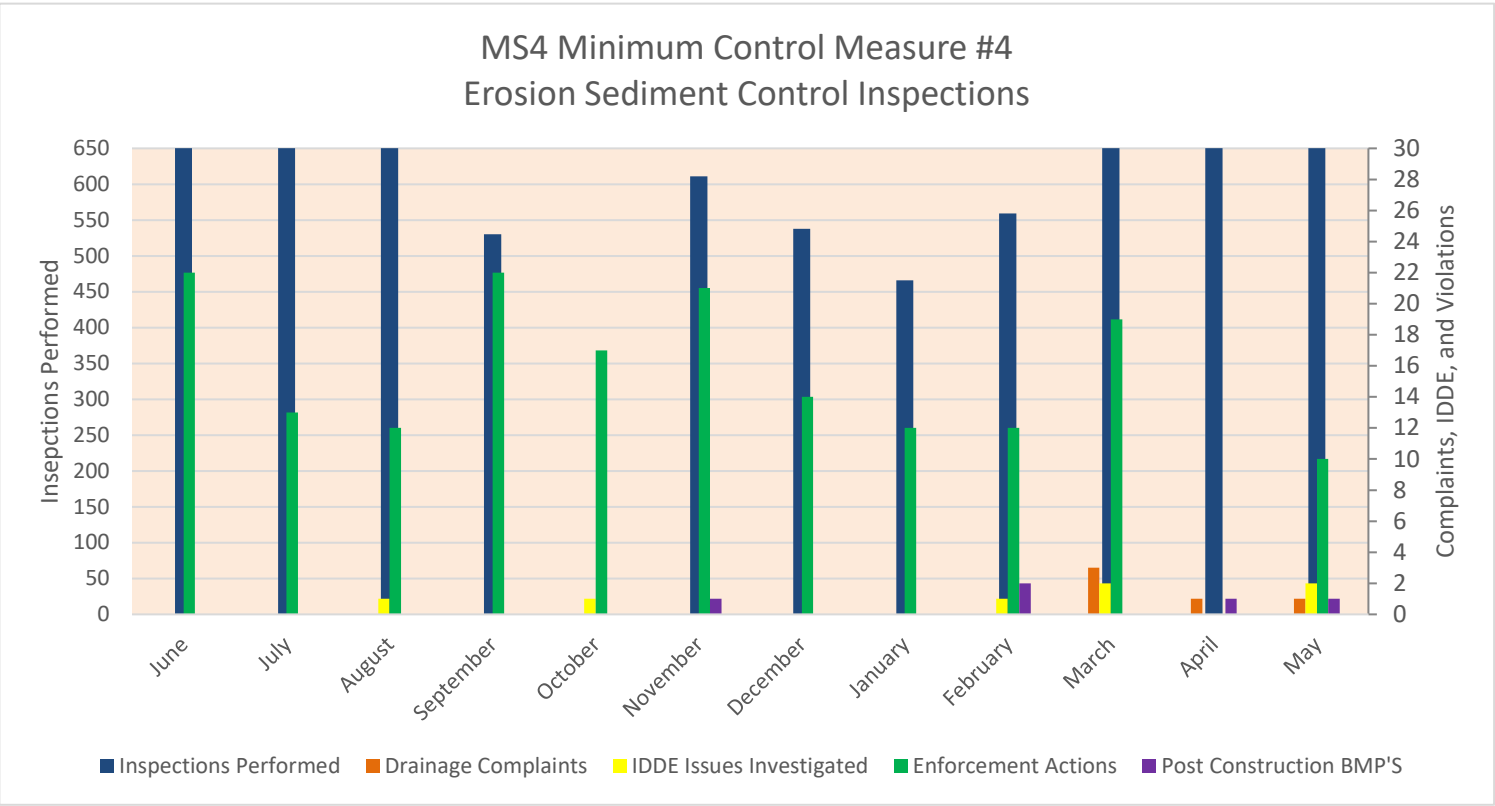
Purchases: New in-situ instrumentation purchased due to old instrumentation being obsolete and repair costs outweigh worth. New instrument lead time is 16 weeks.

MS4 Minimum Control Measure #5 Stormwater Plan Review



TYPE	June	July	August	September	October	November	December	January	February	March	April	May	Last 12 Months
Development Permit (COC's)	34	22	29	27	18	10	8	5	5	17	9	1	185
Plan Review	16	16	11	16	17	18	15	18	12	19	16	17	191
Permits Issued	59	29	43	55	29	60	48	75	53	93	103	56	215

MS4 Minimum Control Measure #4 Erosion Sediment Control Inspections



TYPE	June	July	August	September	October	November	December	January	February	March	April	May	Last 12 Months
Inspections Performed	743	662	654	530	323*	611	538	466	559	864	770	733	2589
Drainage Complaints	0	0	0	0	0	0	0	0	0	3	1	1	5
IDDE Issues Investigated	0	0	1	0	1	0	0	0	1	2	0	2	7
Enforcement Actions	22	13	12	22	17	21	14	12	12	19		10	164
Post Construction BMP'S	0	0	0	0	0	1	0	0	2	0	1	1	9

Project (Year 2022)	Project Type	POC	Direct/Indirect	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Nov	Dec
Small Grants Program	Programs	Bacteria, Freshwater	Direct					Drafting						
Pet Waste Station Map	Programs	Bacteria	Indirect											
Septic Workshop	Programs	Bacteria	Direct					Planning meeting set						
Healthy Pond Series: Wildlife (Feb)	Programs	Nutrients	Direct											
Healthy Pond Series: CCY (May)	Programs	Nutrients	Direct						Jun-22					
Healthy Pond Series: Shorelines (Sept)	Programs	Nutrients	Direct						Planning meetings set					
Healthy Pond Series: Aeration (Dec)	Programs	Nutrients	Direct						Planning meetings set					
Being a Neighbor for Clean Water (Fall)	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct						Planning meetings set					
Soil Sample Drive (Fall)	Programs	Nutrients	Direct											
Buffer Workshop	Programs	Nutrients	Direct						Jul-22					
LID Lunch-and-Learn	Programs	Freshwater	Direct											
Flooding 411 Ask and Expert: Insurance (March)	Programs	Freshwater	Direct											
Flooding 411 Ask and Expert: Meet your Floodplain Manager (Sept)	Programs	Freshwater	Direct											
Flooding 411 Ask and Expert: Dams (Dec)	Programs	Freshwater	Direct											
Flooding 411 (June)	Programs	Freshwater	Direct					6/8, 6/14, 6/22, 6/28						
Adopt-A-Stream (Spring)	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct											
Adopt-A-Stream (Fall)	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct											
4-H2O (July)	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct					7/12/22, 7/13/22, 7/14/22						
Kids in Kayaks	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct											
BMP Park Field Day	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct											
LSP consortium meeting (Feb)	Programs	Consortium Management	Direct											
LSP consortium meeting (May)	Programs	Consortium Management	Direct					8 attended						
LSP consortium meeting (Sept)	Programs	Consortium Management	Direct											
LSP consortium meeting (Dec)	Programs	Consortium Management	Direct											
MS4 meetings (Jan)	Programs	Consortium Management	Direct											
MS4 meetings (June)	Programs	Consortium Management	Direct					Date set for 6/17/22						
MS4 meetings (Nov)	Programs	Consortium Management	Direct					Date set for 11/10/22						
Water Festival	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect					Application submitted						
May River Sweep	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect											
Keep Broad Creek Clean Festival	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect											
Beach/River Sweep	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect											
Soft Shell Crab Festival	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect											
Shrimp Fest	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect											
LID Map Updates	Programs	Freshwater	Indirect											
Construction Site Social Media Campaign	Programs	Freshwater	Indirect											
Septic Factsheet	Publication	Bacteria	Indirect											
Bilingual Septic Rack Cards	Publication	Bacteria	Indirect					Drafting						
Septic "Welcome to the Neighborhood" Packets	Publication	Bacteria	Indirect					Drafting						
Boater Informational Packet	Publication	Bacteria	Indirect											
Boater online resources	Publication	Bacteria	Indirect											
Construction Site Rack card/Door Hanger	Publication	Freshwater	Indirect					Draft in review						
BMP info packet	Publication	Freshwater	Indirect											
Changing Tides (monthly)	Publication	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect											
News Article 1	Publication	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect											
News Article 2	Publication	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect											
News Article 3	Publication	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect											
Septic Step-Stake sign	Media	Bacteria	Indirect											
Boater Waste Signage	Media	Bacteria	Indirect											
Soil sample placards at retailers	Media	Nutrients	Indirect											
Native Plant Signage	Media	Nutrients	Indirect											
Buffer Mailers	Media	Nutrients	Indirect											
Septic Mass Media Campaign	Media	Bacteria	Indirect											
FB posts (one a week)	Media	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect					3 posts, 152 reached						
SWUB Report (monthly)	Reporting	Consortium Management	Indirect											
LSP Annual Report	Reporting	Consortium Management	Indirect											
Boater Waste Buckets/Bags	Purchases	Bacteria	Indirect											
Native Seed Promo Packet	Purchases	Nutrients	Indirect					Ordered						
LSP Tent	Purchases	Consortium Management	Indirect					Searching for Vendor						
LSP Tablecloth	Purchases	Consortium Management	Indirect					Ordered						
LSP Stand-up Sign	Purchases	Consortium Management	Indirect					Ordered						
Boater signs	Purchases	Bacteria	Indirect											
Rack Cards	Purchases	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect											
Soil Sample Displays (signs and holders)	Purchases	Nutrients	Indirect											
Pet waste signs	Purchases	Bacteria	Indirect					Ordered						
Mailers	Purchases	Bacteria, Nutrients	Indirect					Drafting						
Pet Waste Display materials	Purchases	Bacteria	Indirect					Ordered						
Septic Magnets	Purchases	Bacteria	Indirect					Ordered						
LSP Promo Materials	Purchases	Consortium Management	Indirect											
Pet Waste Displays at Local Orgs	Other	Bacteria	Indirect					Ordered						
Install Pet Waste Pledge Signage	Other	Bacteria	Indirect											
Soil Sample Bags at Local Retailers	Other	Nutrients	Indirect											
Direct Contacts	Other	General Stormwater, Bacteria, Nutrients, Freshwater	Direct											

KEY
Not Started
In Progress
Completed



MEMORANDUM

Date: June 1, 2022

To: Stormwater Management Utility Board

From: Matthew Rausch, Stormwater Infrastructure Superintendent

Re: **Maintenance Project Report**

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

Major Projects:

- **Hewlett Road – Lady’s Island (7):** This project improved 4,566 linear feet of drainage system. The scope of work included cleaning out 3,886 linear feet of roadside ditch and 680 linear feet of channel. Jetting (36) driveway pipes and (5) crossline pipes. The total cost was **\$19,357.39**

Minor or Routine Projects:

- **ToB Simmonsville Road (Reimbursement) – Bluffton (4):** This project improved 2,200 linear feet of drainage system. The scope of work included hydroseeding 2,200 linear feet of roadside ditch for erosion control. The total cost was **\$6,475.15.**
- **Warsaw Island Road – St Helena Island (8):** The scope of work included installing (1) access pipe and rip rap for erosion control. The total cost was **\$5,574.02.**
- **Oakhurst Road – Port Royal Island (6):** This project improved 1,365 linear feet of drainage system. The scope of work included cleaning out 1,365 linear feet of channel. The total cost was **\$3,169.12.**
- **Port Royal Island Washout Repair – Lady’s Island (7):** The scope of work is repairing washouts. The total cost was **\$2,086.86.**
- **Shiney Road – St. Helena Island (8):** This project improved 2,737 linear feet of drainage system. The scope of work included cleaning out 1,478 linear feet of roadside ditch and 1,259 linear feet of channel. Installing (1) driveway pipe. The total cost was **\$12,583.48.**
- **Palmetto Beach Lane – Bluffton (4):** This project improved 727 linear feet of drainage system. The scope of work included cleaning out 727 linear feet of roadside ditch and installing (1) driveway pipe. The total cost was **\$6,556.64.**

- **Pond Maintenance-West Pond – Bluffton (4):** This project improved 3,833 linear feet of drainage system. The scope of work included bush hogging 2,324 linear feet of roadside ditch and 1,512 linear feet around the perimeter of the pond. Removed debris from the perimeter of the pond. The total cost was **\$13,367.85**.
- **Montgomery Lane – Port Royal Island (6):** This project improved 870 linear feet of drainage system. The scope of work included cleaning out 870 linear feet of roadside ditch. The total cost was **\$7,625.04**.



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Hewlett Road

Activity: Routine/Preventive Maintenance

Duration: 12/02/2021 - 03/09/2022

Narrative Description of Project:

Project improved 4,566 L.F. of drainage system. Cleaned out 3,886 L.F. of roadside ditch and 680 L.F of channel. Jetted (36) driveway pipes and (5) crossline pipes.

2022-528 / Hewlett Road

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.50	\$46.76	\$0.00	\$0.00	\$0.00	\$28.86	\$75.62
DPJT / Driveway Pipe - Jetted	60.00	\$1,959.56	\$1,149.60	\$305.42	\$0.00	\$1,209.60	\$4,624.18
HAUL / Hauling	69.00	\$2,207.93	\$1,603.98	\$370.70	\$0.00	\$1,305.46	\$5,488.07
RSDCL / Roadside Ditch - Cleanout	167.00	\$5,487.12	\$1,034.85	\$483.28	\$0.00	\$2,145.31	\$9,150.56
UTLOC / Utility locates	0.50	\$12.35	\$0.00	\$0.00	\$0.00	\$6.62	\$18.97
Grand Total	298.00	\$9,713.71	\$3,788.43	\$1,159.40	\$0.00	\$4,695.85	\$19,357.39

Before

(No Pictures Available)

During

(No Pictures Available)

After



Project: Hewlett
Road Map #1

Activity: Routine/
Preventive
Maintenance

Project #:
2022-528

Township/SW Dist:
Ladys Island/7

Completed:
January 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: 05/24/22

File: C:\project summaries map\Hewlett RD Map#1_2022-528

Project: Hewlett Road Map #2

Activity: Routine/ Preventive Maintenance

Project #: 2022-528














Township/SW Dist: Ladys Island/7

Completed: January 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: 05/24/22

File: C:\project summaries map\Hewlett RD Map#2_2022-528



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: ToB-Simmons ville Road (Reimbursement)

Activity: Routine/Preventive Maintenance

Duration: 05/11/2022 - 05/17/2022

Narrative Description of Project:

Project improved 2,200 L.F. of drainage system. Hydroseeded 2,200 LF of roadside ditch for erosion control.

2022-560/Simmons ville Road (Reimbursement)

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.50	\$16.37	\$0.00	\$0.00	\$0.00	\$10.11	\$26.48
HYDR / Hydroseeding	32.00	\$911.09	\$151.24	\$1,431.97	\$0.00	\$562.40	\$3,056.70
SITEINSP / Site Inspection	3.00	\$161.88	\$13.05	\$0.00	\$0.00	\$99.93	\$274.86
STAGING / Staging Materials/Equipment	64.00	\$1,798.72	\$104.40	\$103.68	\$0.00	\$1,110.32	\$3,117.12
Grand Total	99.50	\$2,888.06	\$268.69	\$1,535.65	\$0.00	\$1,782.76	\$6,475.15

Before



During



After





Project: TOB-Simmons Rd (Reimbursement)

Activity: Routine/Preventive Maintenance

Project #: 2022-560

Township/SW Dist: Bluffton/4

Completed: May 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: 05/26/22

File: C:\project summaries map\TOB-Simmons Rd (Reimbursement)_2022-560



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Warsaw Island Road

Activity: Routine/Preventive Maintenance

Duration: 12/07/2021 - 12/08/2021

Narrative Description of Project:

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

2022-529/ Warsaw Island Road

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AGI / Access Gate - Installed	24.00	\$790.40	\$77.50	\$865.10	\$0.00	\$325.04	\$2,058.04
AUDIT / Audit Project	0.50	\$16.37	\$0.00	\$0.00	\$0.00	\$10.11	\$26.48
HAUL / Hauling	37.00	\$1,133.10	\$599.56	\$1,212.78	\$0.00	\$544.06	\$3,489.50
Grand Total	61.50	\$1,939.87	\$677.06	\$2,077.88	\$0.00	\$879.20	\$5,574.02

Before



During



After





Project: Warsaw
Island Road

Activity: Routine/
Preventive
Maintenance

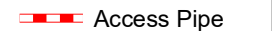


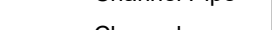
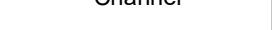
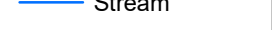
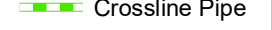




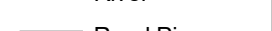
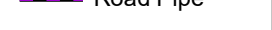
Project #:
2022-529

Township/SW Dist:
St. Helena Island/8

Completed:
December 2021

Legend

Drainage Type

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

0 75 150 300 450 600
Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/06/22

File: C:\project summaries map\Warsaw Island Road_2022-529



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Oakhurst Road

Activity: Routine/Preventive Maintenance

Duration: 01/14/2022 - 01/25/2022

Narrative Description of Project:

Project improved 1,365 L.F. of drainage system. Cleaned out 1,365 L.F. of channel.

2022-536 / Oakhurst Road

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.50	\$16.37	\$0.00	\$0.00	\$0.00	\$10.11	\$26.48
CCO / Channel - cleaned out	44.00	\$1,092.56	\$241.36	\$112.15	\$0.00	\$712.88	\$2,158.95
HAUL / Hauling	16.00	\$428.44	\$304.96	\$100.45	\$0.00	\$149.84	\$983.69
Grand Total	60.50	\$1,537.37	\$546.32	\$212.60	\$0.00	\$872.83	\$3,169.12

Before



During



After





Project: Oakhurst Road

Activity: Routine/ Preventive Maintenance














Project #: 2022-536

Township/SW Dist: Port Royal Island/6

Completed: January 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 37.575 150 225 300 Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/27/22

File: C:\project summaries map\Oakhurst Road Channel_2022-536



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Port Royal Island Washout Repairs
Leo Green Road and Summer Drive

Activity: Routine/Preventive Maintenance
Duration: 08/30/2021 - 12/15/2021

Narrative Description of Project:

Repaired washouts.

2022-421/Port Royal Island Washout Repairs

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.50	\$15.59	\$0.00	\$0.00	\$0.00	\$9.62	\$25.21
HAUL / Hauling	10.00	\$298.80	\$190.60	\$200.60	\$0.00	\$184.44	\$874.44
RPWO / Repaired Washout	30.00	\$739.95	\$105.80	\$46.45	\$0.00	\$295.02	\$1,187.22
Grand Total	40.50	\$1,054.34	\$296.40	\$247.05	\$0.00	\$489.08	\$2,086.86

(No Pictures Available)



Project: Port Royal Island Washout/
Sinkhole Repair -
Summer Drive
Map #1

Activity: Routine/
Preventive
Maintenance














Project #:
2022-421

Township/SW Dist:
Port Royal Island/6

Completed:
December 2021

Legend

Drainage Type

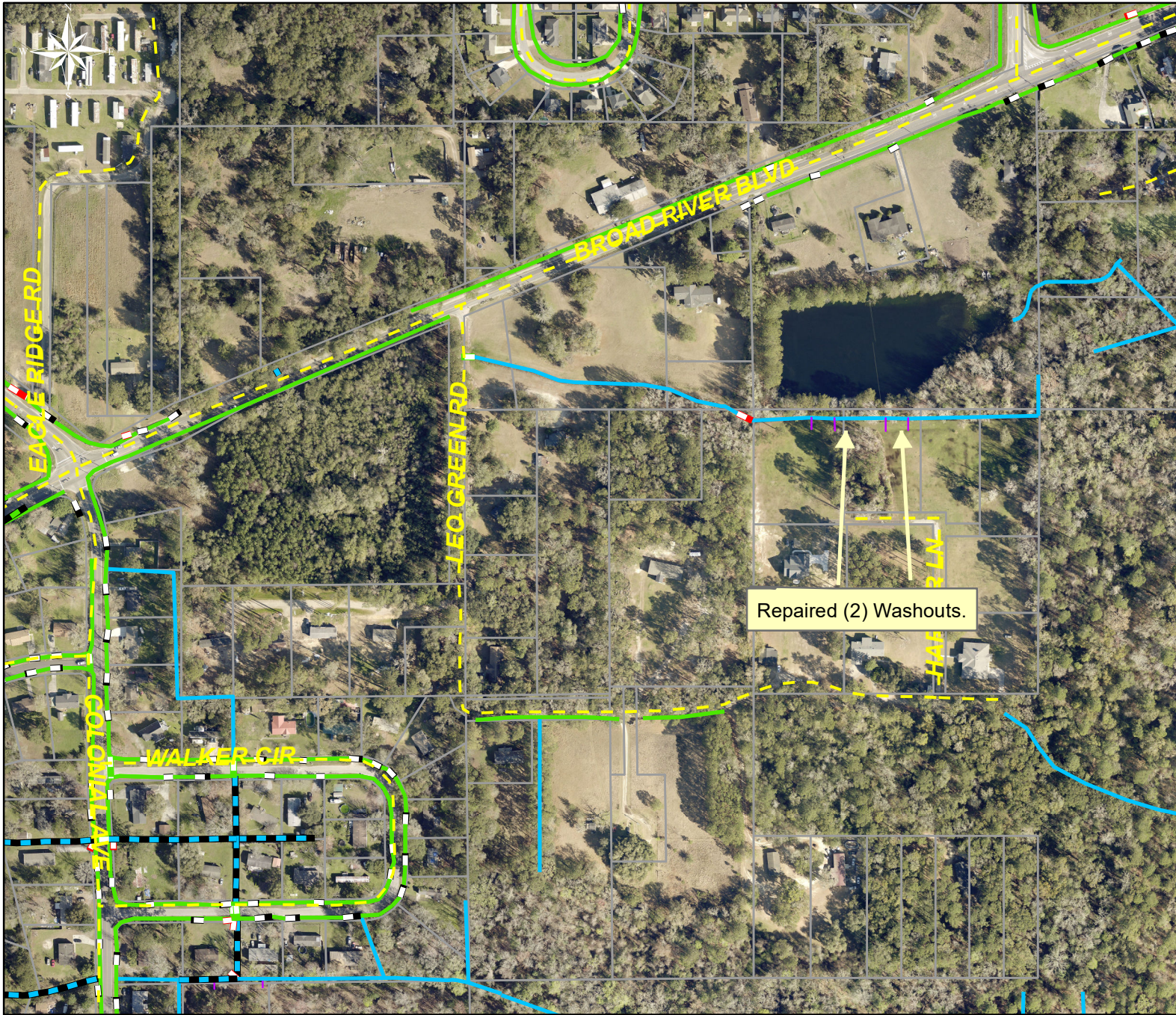
-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe

0 510 20 30 40
Feet

1 inch = 500 feet

Prepared By: BC Stormwater Management Utility
Date Print: 01/04/22

File: C:\project summaries map\Port Royal Island Washout/ Sinkhole Repair- Summer Drive Map #1_2022-421



Project; Port Royal Island Washout Sinkhole Repair- Leo Green Road Map#2

Activity: Routine/ Preventive Maintenance

Project #: 2022-421

Township/SW Dist: Port Royal Island/6

Completed: December 2021

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

0 55110 220 330 440 Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/04/22

File: C:\project summaries map\Port Royal Island Washout\ Sinkhole Repair- Leo Green Road Map#2_2022-421



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Shiny Road

Activity: Routine/Preventive Maintenance

Duration: 10/04/2021 - 12/20/2021

Narrative Description of Project:

Project improved 2,737 L.F. of drainage system. Cleaned out 1,478 L.F. of roadside ditch and 1,259 L.F. of channel. Installed (1) driveway pipe.

2022-511 / Shiny Road

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.00	\$31.17	\$0.00	\$0.00	\$0.00	\$19.24	\$50.41
CCO / Channel - cleaned out	52.00	\$1,399.98	\$269.59	\$134.07	\$0.00	\$325.04	\$2,128.68
DPINS / Driveway Pipe - Installed	24.00	\$790.40	\$310.55	\$370.67	\$0.00	\$325.04	\$1,796.66
DWASPH / Driveway - Asphalt	12.00	\$395.20	\$63.85	\$80.70	\$0.00	\$162.52	\$702.27
HAUL / Hauling	66.00	\$2,069.86	\$1,257.96	\$943.25	\$0.00	\$1,277.56	\$5,548.63
RSDCL / Roadside Ditch - Cleanout	56.00	\$1,511.50	\$365.84	\$154.45	\$0.00	\$325.04	\$2,356.83
Grand Total	211.00	\$6,198.11	\$2,267.79	\$1,683.14	\$0.00	\$2,434.44	\$12,583.48

Before



During



After





Project: Shiny Road Map #1

Activity: Routine/ Preventive Maintenance

Project #: 2022-511

Township/SW Dist: St. Helena Island/8

Completed: October 2021

Legend

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

0 115230 460 690 920 Feet

1 inch = 670 feet

Prepared By: BC Stormwater Management Utility

Date Print:05/13/22

File:C:\project summaries map/Shiny Rd Map#1_2022-511



Project: Shiney Rd
Map #2

Activity: Routine/
Preventive
Maintenance

Project #:
2022-511

Township/SW Dist:
St. Helena Island/8

Completed:
October 2021

Legend

Drainage Type

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

0 115230 460 690 920
Feet

1 inch = 670 feet

Prepared By: BC Stormwater Management Utility

Date Print: 05/13/22

File: C:\project summaries map\Shiney Rd Map#2_2022-511



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Palmetto Beach Lane

Activity: Routine/Preventive Maintenance

Duration: 10/07/2021 - 01/26/2022

Narrative Description of Project:

Project improved 727 L.F. of drainage system. Cleaned out 727 L.F. of roadside ditch and installed (1) driveway pipe.

2022-515 / Palmetto Beach Lane

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
ASBUILT / Asbuilt - Project	8.00	\$199.80	\$17.40	\$18.41	\$0.00	\$123.32	\$358.93
AUDIT / Audit Project	0.50	\$15.59	\$0.00	\$0.00	\$0.00	\$9.62	\$25.21
DPINS / Driveway Pipe - Installed	24.00	\$574.41	\$174.38	\$304.74	\$0.00	\$246.64	\$1,300.17
HAUL / Hauling	32.00	\$877.69	\$533.68	\$819.65	\$0.00	\$491.88	\$2,722.91
RSDCL / Roadside Ditch - Cleanout	48.00	\$1,148.77	\$221.65	\$52.38	\$0.00	\$493.28	\$1,916.08
SITEINSP / Site Inspection	3.00	\$93.51	\$13.05	\$50.10	\$0.00	\$57.72	\$214.38
UTLOC / Utility locates	0.50	\$12.35	\$0.00	\$0.00	\$0.00	\$6.62	\$18.97
Grand Total	116.00	\$2,922.12	\$960.16	\$1,245.29	\$0.00	\$1,429.08	\$6,556.64

Before

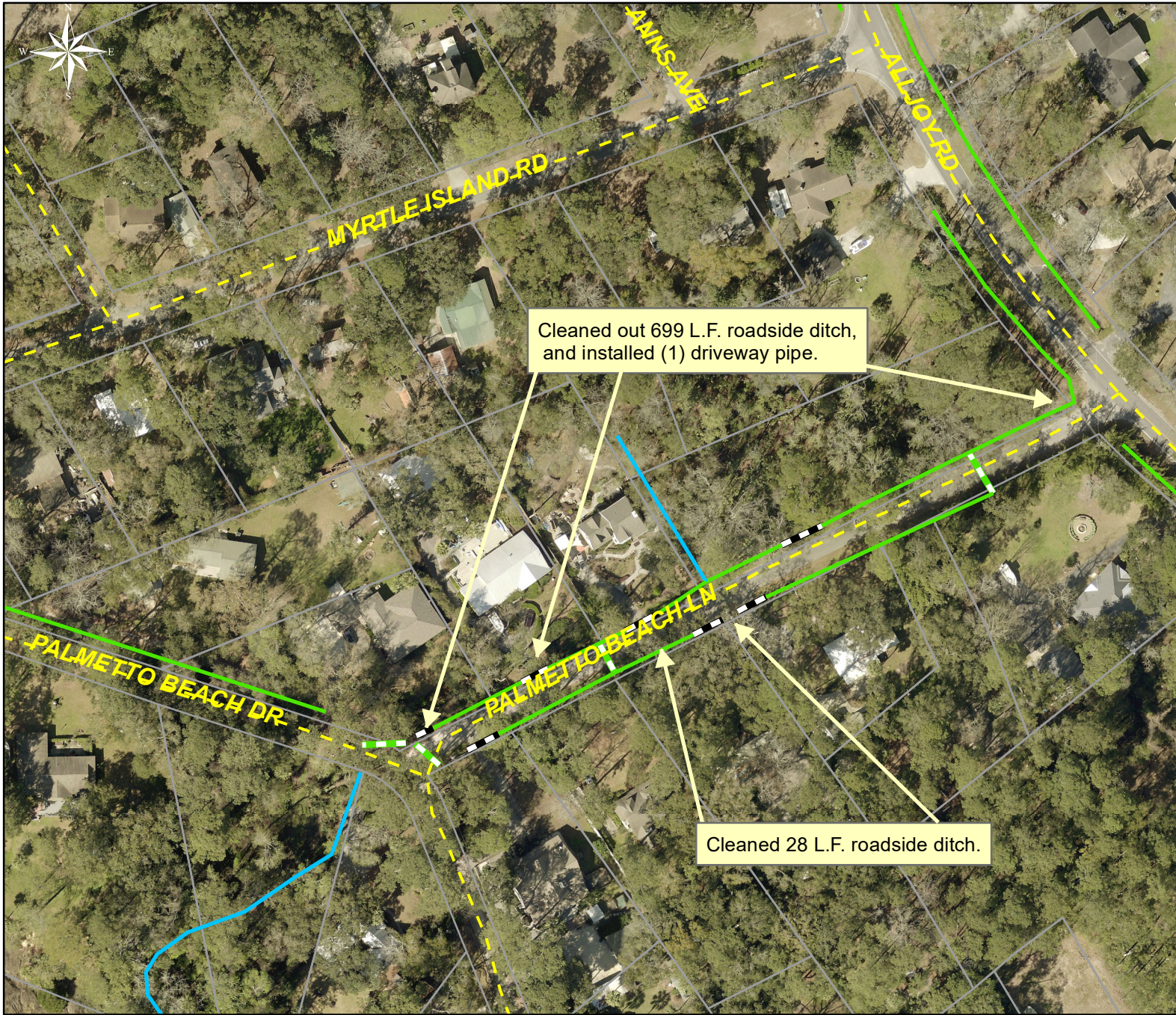


During



After





Project: Palmetto Beach Ln

Activity: Routine/ Preventive Maintenance

Project #: 2022-515

Township/SW Dist: Bluffton/4

Completed: January 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: 05/13/22
 File: C:\project summaries map\Palmetto Beach Ln_2022-515



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Pond Maintenance - West Pond

Activity: Pond Maintenance

Duration: 11/30/2021 - 12/09/2021

Narrative Description of Project:

Project improved 3,833 L.F. of drainage system. Bush hogged 2,324 L.F. of roadside ditch and 1,512 L.F. around the pond. Removed debris from the perimeter of the pond.

2022-321 / Pond Maintenance - West Pond

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.50	\$16.37	\$0.00	\$0.00	\$0.00	\$10.11	\$26.48
HAUL / Hauling	67.00	\$1,914.12	\$970.30	\$338.62	\$0.00	\$837.64	\$4,060.68
ONJV / Onsite Job Visit	14.00	\$651.14	\$60.90	\$31.12	\$0.00	\$401.94	\$1,145.10
PDBH / Ponds - bushhogged	32.00	\$911.61	\$221.12	\$75.98	\$0.00	\$591.04	\$1,799.75
PM / Ponds - Maintenance	60.00	\$1,461.97	\$1,329.71	\$269.86	\$0.00	\$1,207.36	\$4,268.90
PS / Push up soil	8.00	\$197.32	\$297.52	\$17.10	\$0.00	\$160.36	\$672.30
RDBH / Roadside ditch - bushhogged	16.00	\$455.80	\$91.62	\$31.44	\$0.00	\$295.52	\$874.38
TC / Traffic Control - Jobsite	12.00	\$280.06	\$0.00	\$26.20	\$0.00	\$214.00	\$520.26
Grand Total	209.50	\$5,888.39	\$2,971.17	\$790.32	\$0.00	\$3,717.97	\$13,367.85

Before

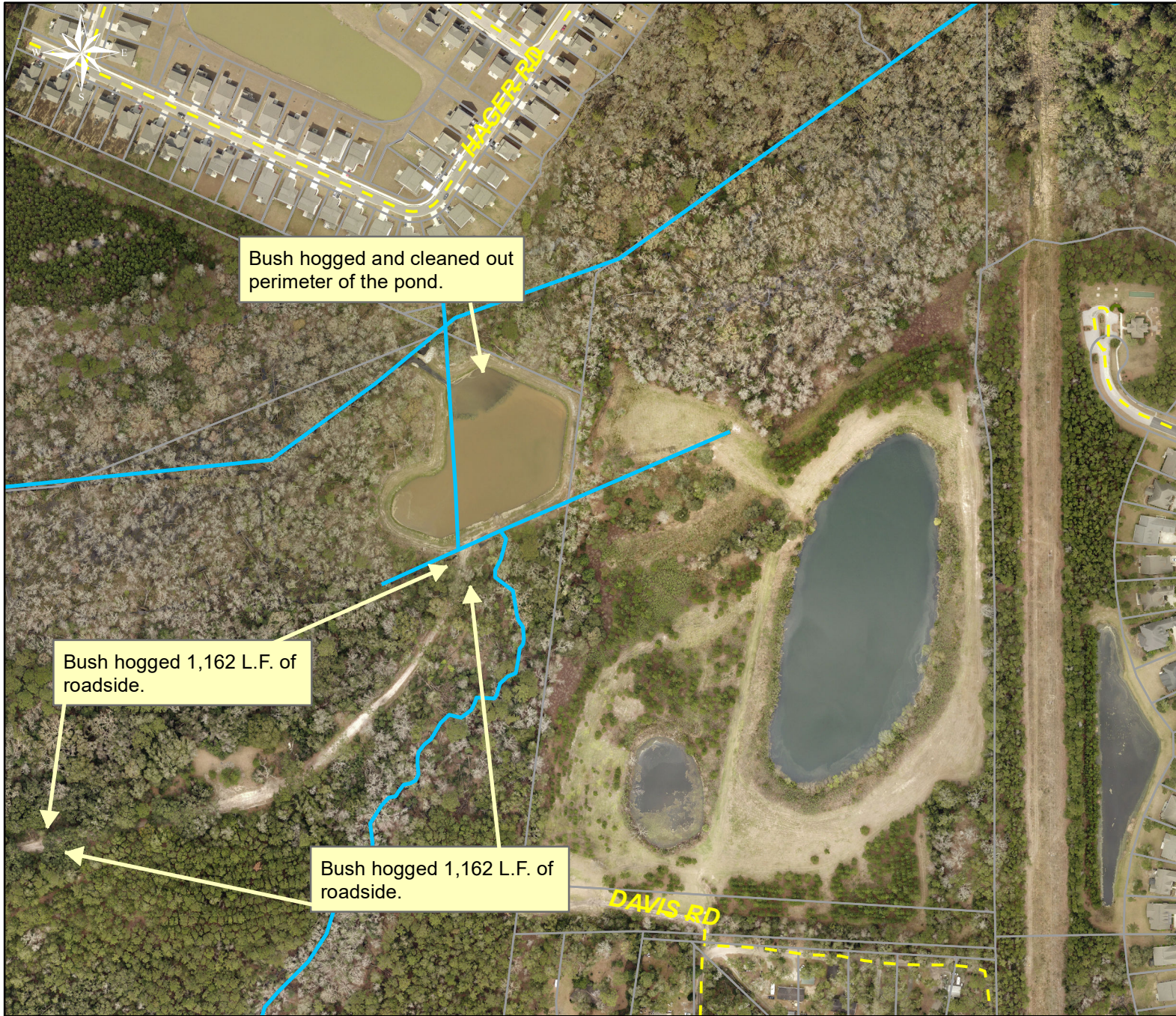


During



After





Project: West Pond

Activity: Routine/
Preventive
Maintenance














Project #:
2022-321

Township/SW Dist:
Bluffton/4

Completed;
December 2021

Legend

Drainage Type

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



1 inch = 330 feet

Prepared By: BC Stormwater Management Utility
Date Print: 01/04/22
File: C:\project summaries map\West Pond_2022-321



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Montgomery Lane

Activity: Routine/Preventive Maintenance

Duration: 11/15/2021 - 01/11/2022

Narrative Description of Project:

Project improved 870 L.F. of drainage system. Cleaned out 870 L.F. of roadside ditch.

2022-521 / Montgomery Lane

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.50	\$16.37	\$0.00	\$0.00	\$0.00	\$10.11	\$26.48
CLJS / Cleaned up jobsite	9.00	\$217.62	\$13.05	\$5.74	\$0.00	\$170.67	\$407.08
HAUL / Hauling	27.00	\$729.16	\$457.44	\$156.98	\$0.00	\$497.80	\$1,841.38
PL / Project Layout	16.00	\$394.62	\$34.80	\$28.50	\$0.00	\$320.72	\$778.64
PRRECON / Project Reconnaissance	3.00	\$72.54	\$4.35	\$8.55	\$0.00	\$56.89	\$142.33
RSDCL / Roadside Ditch - Cleanout	72.00	\$1,785.52	\$499.73	\$143.50	\$0.00	\$1,345.52	\$3,774.27
SG / Shoot Grade	16.00	\$394.64	\$34.80	\$43.65	\$0.00	\$143.84	\$616.93
UTLOC / Utility locates	1.00	\$24.70	\$0.00	\$0.00	\$0.00	\$13.23	\$37.93
Grand Total	144.50	\$3,635.17	\$1,044.17	\$386.92	\$0.00	\$2,558.78	\$7,625.04

Before



During



After





Cleaned out 870 L.F. of roadside ditch.

Project: Montgomery Lane

Activity: Routine/ Preventive Maintenance














Project #: 2022-521

Township/SW Dist: Port Royal Island/6

Completed: January 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 45 90 180 270 360 Feet

1 inch = 210 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/22/22

File: C:\project summaries map\Montgomery Lane_2022-521



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, August 17th, 2022 2:00 p.m.
County Council Chambers
100 Ribaut Rd., 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 – June 15th, 2022 (backup)
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
- A. Utility Update – Katie Herrera (backup)
 - B. Monitoring Update – Katie Herrera (backup)
 - C. Stormwater Implementation Committee Report – Katie Herrera (backup)
 - D. Stormwater Related Projects – Julianna Corbin (backup)
 - E. Upcoming Professional Contracts Report – Julianna Corbin (backup)
 - F. Regional Coordination – Katie Herrera (backup)
 - G. Municipal Reports – Katie Herrera (backup)
 - H. MS4 Update – Katie Herrera (backup)
 - I. Staff Update – Katie Herrera (backup)
 - J. Maintenance Projects Report – Matthew Rausch (backup)
 - K. Liaison Report - Ms. Alice Howard
5. UNFINISHED BUSINESS
6. NEW BUSINESS
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
- A. Wednesday, October 19TH 2022 (backup)
9. ADJOURNMENT



TOWN COUNCIL



STAFF REPORT

Projects and Watershed Resilience Department

MEETING DATE:	May 10, 2022
SUBJECT:	Projects and Watershed Resilience Department Monthly Report
PROJECT MANAGER:	Kim Jones, Director of Projects and Watershed Resilience

CAPITAL IMPROVEMENTS PROGRAM (CIP) AND SPECIAL PROJECTS UPDATE

PATHWAYS

1. Goethe-Shults Sidewalks Phase 2

- Notice to Proceed with construction was issued 7/1/2021.
- Construction of concrete sidewalks is complete. Crosswalk painting and cleanup remaining.
- Stormwater pipe and sidewalks have been removed from the Shults Rd. portion of the project scope due to conflicts between SCDOT pipe and BJWSA sewer lateral line standards.
- **Next Steps**
 - Complete as-built drawings and request SCDOT inspection.
 - Obtain quotes to clean ditches and outfall along Shults Road.

2. Buck Island-Simmons ville Neighborhood Sidewalks and Lighting

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

3. Bridge Street Streetscape

- Phase 1 bid documents are complete and bid received 3/24/22.
- OCRM/DHEC permits are approved. SCDOT comments have been addressed and are under final review.

- SCDHEC 319 grant application was awarded for \$179,700 for drainage and water quality improvements.
 - Easement acquisition is complete. Town Council approved the construction contract at the 4/12/22 meeting.
 - **Next Steps**
 - Execute contract with JS Construction.
 - Start construction in May.
- 4. Boundary Street Streetscape**
- Surveying is complete and engineering design is underway.
 - Conceptual Drainage Plan was provided to Town Staff for review and comment.
 - **Next Steps**
 - Review preliminary plans with Town staff and Watershed.
- 5. New River Linear Trail**
- Surveying is complete.
 - Conceptual Master Plan is complete.
 - Met with Santee Cooper to determine design parameters for Phase 1 engineering design.
 - Met with Barrier Engineering to discuss Phase 1 Engineering Design Proposal.
 - **Next Steps**
 - Execute design contract for Phase 1 pathway engineering design (New River to Hwy 46).
 - Research grant opportunities to fund planning and construction of future trail improvements.
 - Determine availability for sewer, water and power to trail head/parking area.
 - Submit plans to Santee Cooper for cursory review.
 - Begin discussions with Heritage at New Riverside for easement near Hwy 46 overpass.

SEWER & WATER

- 1. Buck Island-Simmons ville Sewer (Phases 5A-5D)**
- Construction has been halted on Phases 5A-D by BJWSA due to the contractor under-performing their job duties. Engineer has started closeout phase for what has been installed to date.
 - The engineer has provided a draft of new construction documentation to complete the project.

- **Next Steps**
 - Readvertise for bids to complete construction on Phase 5A-D anticipated by end of May 2022.
 - Start house connections after the main line is approved by DHEC.

- 2. **Historic District Sewer Extension Phase 1 - Pritchard Street**
 - Main line construction and connections are complete.

- 3. **Historic District Sewer Extension Phase 2 - Bridge Street**
 - Received SCDHEC permit to construct for original scope.
 - No contractors responded to the first construction solicitation. Working on a redesign option to avoid extremely long bore.
 - Received Quit Claim Deeds from all the property owners along the ghost road.
 - Obtained road ownership from SCDOT.
 - **Next Steps**
 - Readvertise project for bid in conjunction with HD Sewer Phase 3.

- 4. **Historic District Sewer Extension Phases 3 through 6 – Colcock, Lawrence, Green and Water Streets**
 - Received initial design and reviewed with the engineer.
 - **Next Steps**
 - Submit Phase 3 for permitting to be bid with Phase 2.
 - Review design changes to drawings.
 - Obtain Quit Claim Deeds from all the property owners along the ghost roads.

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 ROW. Easements must now be obtained to install Phase 2 lighting.
 - **Next Steps**
 - Coordinate conduit light installation in conjunction with streetscape design.
 - Obtain easements as needed for Phase 2 street lighting.

2. **Historic District Streetscape and Drainage Improvements**
 - Engineering design, landscape design, permitting and bidding have been completed for the drainage improvements at the AME Church. Construction is currently underway.
 - Completed Historic District crosswalk study identifying and prioritizing future intersection/crosswalk improvements to meet ADA compliance.

- Executed contract for engineering design services for the first phase of intersection/crosswalk ADA improvements. Design is underway.
 - **Next Steps**
 - Complete construction of AME Church rain garden.
 - Complete designs and construction documents for first phase of intersection/crosswalk ADA improvements.
- 3. Calhoun Street Streetscape**
- Surveying is complete and engineering design underway.
 - Preliminary evaluation and recommendations for existing storm pipes are complete.
 - **Next Steps**
 - Obtain preliminary engineering plans in May and continue final design into FY 2022-2023.
 - Easement acquisition is planned to begin in FY 2023.
 - Phased construction is planned to begin in FY 2024 pending budget approval.
- 4. Squire Pope Carriage House Preservation**
- Construction documents are complete and submitted to SHPO for a courtesy review.
 - Stabilization documents are complete.
 - ATAX funding was approved in March.
 - Midwest Maintenance Inc. and Town have executed contract.
 - Stabilization Permit was awarded on 4/22/2022.
 - **Next Steps**
 - Stabilization Schedule is 5 to 6 weeks duration from 5/2/22, weather permitting.

PARK DEVELOPMENT

- 1. Oyster Factory Park**
- Witmer, Jones and Keefer completed design development drawings in May 2021.
 - Engineering and Landscape design of eastern parking area is underway.
 - Received Undiscovered Grant in March for phase III signage at Garvin/Garvey.
 - **Next Steps**
 - Begin construction of parking area in June 2022.
 - Design of phase III signage for Garvin/Garvey house underway with HW Exhibits. Signage and Exhibits to be complete in November 2022.
 - Begin design of Oyster Factory Park cookout area in FY 2023.
- 2. Wright Family Park**
- Completed installations of the palmetto logs, planters and interpretive signage.
 - **Next Steps**
 - Palmetto Logs to be included in the Arbor Day celebration scheduled for 4/29/22.

3. Oscar Frazier Park

- Synthetic turf and power pedestals are complete.
- Prepared concept designs and estimating for Splash Pad.
- Began construction of the Field of Dreams sod replacement.
- **Next Steps**
 - Complete sod replacement in early May.
 - Continue planning and design of future improvements in FY 2023 and beyond.

4. New Riverside Barn/Park

- A \$500,000.00 grant was approved for partial funding of the initial phase of the project.
- Engineering design of Phase 1 site plans are currently underway and moving forward with approvals and permitting.
- Construction documents for the restroom building are complete.
- Selected Architect for design of the Barn additions.
- **Next Steps**
 - Complete construction drawings, cost estimating and permitting of Phase 1 site development in May 2022.
 - Start construction of Phase 1 site development in late-July 2022.
 - Begin architectural design of barn addition in May.

5. May River Road Pocket Park

- Received 100% Construction Documents on 4/6/22.
- Submitted Public Project application.
- Bid received 4/28/22.
- **Next Steps**
 - Town Council to approve Staff recommendation to name the park May River Road Pocket Park.
 - Town Council to approve construction contract at 5/10/22 meeting.

6. Miscellaneous Park Improvements

- Completed DuBois Park synthetic turf replacement.
- Completed concept design for Pritchard Pocket Park hardscape improvements.
- **Next Steps**
 - Obtained three quotes for paver walkway at Pritchard Street Pocket Park.
 - Start construction of paver path in June.

TOWN FACILITIES AND MISCELLANEOUS PLANNING**1. Buckwalter Place Park Restroom**

- Design for the Buckwalter Park restroom is complete. Awaiting permits from agencies.
- **Next Steps**
 - Obtain permits for the utility extensions for the proposed Buckwalter Park Restroom.

2. Town of Bluffton Housing Projects

- **Next Steps**

- Planning and design to begin upon completion of Joint Venture Agreement.
- Assist with the preparation of comprehensive cost estimates for planning, design and construction for the various housing projects.
- Obtain quotes for survey and due diligence evaluations of the Town-owned Willow Run tract.

3. Law Enforcement Center Facility Improvements

- Initial Scope of Work of the parking and services yard is complete.
- Additional Design Services for Challenge Course and Reflection Plaza are underway.
- Bids received and contract issued for covered shed building.
- **Next Steps**
 - Punch list and BJWSA closeout documents nearly complete.
 - Information Technology department coordinating upgrades to building security systems.
 - Complete plans for Reflection Plaza and obtain a change order for The Greenery to construct in May 2022.
 - Complete upfit of storage shed including insulation, HVAC and shelving.
 - Bid site development for Temporary Parking Lot and PAT training course

4. Ghost Roads

- Surveying and easement exhibits are complete.
- Bridge St. Quit Claim Deeds are complete. Pritchard and Colcock Streets Quit Claim Deeds are 95% complete. Staff is currently working with Lawrence, Lawton and Green Street property owners to obtain Quit Claim Deeds. The next focus area is Pope, Allen and Water Street.
- Staff continues to meet with property owners to raise awareness of the acquisition efforts and communicate next steps.
- **Next Steps**
 - Continue meeting with property owners and obtaining Quit Claim Deeds.

5. Community Safety Cameras

- Fourteen older cameras in the network have been replaced.
- **Next Steps**
 - Continue with camera replacements and upgrades as necessary.
 - Install cameras to new LEC service yard area.

6. Public Services Facility Improvements

- Prepare site plans for expanding of Public Services yard.
- Install new plumbing and electric for the washer and dryer.

- **Next Steps**
 - Begin design and permitting for the expansion of the yard.
 - Obtain quotes for the installation of the plumbing and electric.
 - Fencing, flooring, canopies, and HVAC replacement to be completed in June

7. **Rotary Community Center Facility Improvements**

- Obtain specifications and quotes to replace the hardwood floor in the main area.
- **Next Steps**
 - Complete floor replacement in June 2022.

8. **Watershed Management Facility Improvements**

- Obtain quotes to add flooring in additional offices and storage shed.
- **Next Steps**
 - Complete floor replacement and storage shed in June 2022.

DIVISION/STAFF UPDATES

Project Management

Thirty-eight (38) CIP projects were approved with the FY 2022 budget. HD Sewer Phase 1 (Pritchard Street), BIS Phase 6A Sidewalks, LEC Parking and Service Yard Expansion, DuBois Park Synthetic Turf Replacement, Wright Park Restroom HVAC, Oscar Frazier Park Playground Turf and Power Pedestals, Safety Camera Replacements/Additions, and IT Server Upgrades have been completed so far in FY 2022. Goethe Shults Phase 2, BIS Phase 5 Sewer, and Oscar Frazier Park Field Replacement are currently under construction and planned to be complete in the Summer of 2022. Boundary Street Lighting, and HD Sewer Phase 2 and 3, Bridge Street Streetscape, New Riverside Barn Park, May River Pocket Park and Oyster Factory Parking lot are expected to start construction this summer. The remaining CIP projects are still in the design phase and are planned to start construction in FY 2023.

Watershed Management

1. **Sea Level Rise Task Force**

- Following Beaufort County's presentation and request for regional participation at the 10/22/19 SoLoCo meeting, staff attended the Sea Level Rise Task Force meetings to discuss a possible No Fill Ordinance, a Coastal Resilience Overlay District, and county-wide sea level rise adaptation strategies.
- Information provided to Town Comprehensive Plan Update consultant team for inclusion in the state-required resiliency component. Town Comprehensive Plan Open House and Town Council Workshop were held 4/19/22.
- **Next Steps**
 - Beaufort County to present and request a recommendation from SoLoCo for regional partners to adopt.
 - Adoption of Comprehensive Plan Update by Town Council with new Resiliency chapter.

2. **Joint Councils Meeting for Watershed Management Initiatives**

- BJWSA developed their CIP list for FY 2020 sewer projects which does not include any projects in the County's jurisdiction in the May River Headwaters without cost-sharing.
- Following the Joint Councils Meeting with BJWSA, held on 2/25/20, staff from Beaufort County and Town of Bluffton met to discuss sewer extension scope and strategy on 2/27/20.
- Staff from the Town, County, and BJWSA met via Zoom 3/27/20 to confirm project scope, cost, and potential project manager. The last project cost estimate to extend, connect, and abandon septic in the Stoney Creek project area is \$4.7 million (B. Chemsak email 7/22/19) but they anticipate those numbers increasing to \$5.5 million. The proposal is 1/3 cost-share, so the Town's portion would be approximately \$1.83 million. Beaufort County has not formally agreed or committed any funding.
- Neither BJWSA nor Beaufort County have committed funds in FY 2021 to begin sewer extension.
- Town Manager, Director of Engineering and staff met with BJWSA General Manager, Engineer and staff on 6/5/20 to discuss how to move the project forward.
- The Town submitted a response on 12/18/21 and again on 1/25/22 to BJWSA's "call for projects" request that prioritizes May River Watershed sewer projects.
- Staff drafted a letter for the Town Manager's review requesting Beaufort County commitment to cost-share Stoney Creek/Palmetto Bluff Rd. sewer project in the May River watershed.
- Staff presented an update on current status at 4/20/21 Town Council Workshop.
- Town Council sent a letter on 4/26/21 requesting Beaufort County Council consider funding in FY 2022 for sewer extension projects in the May River watershed in the County's jurisdiction.
- Town Council and BJWSA sent a letter requesting Beaufort County Council partnership in sewer extension projects within the County's jurisdiction of the May River Watershed.
- **Next Steps**
 - Received an email from Hank Amundson, Beaufort County Special Projects Director, on 4/12/22 informing the Town Manager that \$250,000 in ARPA – Good Neighbor Programs funds which the Town can use for sewer extension.
 - Staff is developing a scope of work and tentative schedule for review by project partners to create a Memorandum of Understanding for the Stoney Creek/Palmetto Bluff Road Sewer Extension project.

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

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

- Staff increased sampling frequency and implemented additional monitoring sites and parameters in the May River headwaters based upon recommendations in the

2020 May River Watershed Action Plan Update and Model Report. Staff collected twenty-six (26) bacteria and twenty-six (26) nutrient samples on 4/14/22.

- Staff is collecting intermittent flow data in conjunction with grab samples at monitoring sites in the May River Headwaters as recommended in the 2020 May River Watershed Action Plan Update and Model Report. Staff is determining what monitoring sites are most critical due the length of time flow data collection requires.
- Staff has implemented continuous flow monitoring instruments in the Stoney Creek and Rose Dhu Creek subwatersheds. Staff conducted site visits with Water Environment Consultants on 4/19/22 and has provided them with all data currently collected by the Town. The consultant is assisting the Town with assessing the first six (6) months of data from continuous flow monitoring stations, weather stations, and intermittent flow stations.
- Staff is working with the USCB-MST Laboratory to assess the utility of fecal markers in regional watersheds, including the May River watershed as recommended in the 2020 May River Watershed Action Plan Update and Model Report.

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

- Staff has updated the Town's MS4 Stormwater Management Plan and supporting documentation. SCDHEC is currently in the process of developing a revised National Pollutant Discharge and Elimination (NPDES) Permit for Small MS4s and will re-issue to permittees, including the Town, in the future.
- Staff submitted the Town's MS4 Annual Report for submission to SCDHEC on 4/26/22.

6. **MS4 Minimum Control Measure (MCM) - #1 Public Education and Outreach, and MS4 MCM - #2 Public Participation and Involvement**

- The May River Watershed Action Plan Advisory Committee was canceled due to lack of quorum. **Attachment 3**
- Staff developed an MS4 direct mail postcard and has obtained cost estimates to print and mail. Staff is working to refine addresses in the appropriate format needed for mailings. This effort assists the Town with meeting MS4 permit requirements.
- Staff did a "Build the May River Watershed" STEM activity with Cross School 4th graders on 4/05/22.
- Jones, Moreno, Crotty, Clarkson, Rybak and Maxwell participated in the County's Earth Day roadside cleanup on 4/20/22.
- Staff continues to prepare for this year's May River Cleanup on 4/30/22. All partnerships have been secured.

7. **MS4 MCM – #3 Illicit Discharge Detection and Elimination**

- Stormwater Infrastructure Inventory Map - **Attachment 4a**
- *E. coli* Concentrations Trend Map - **Attachment 4b**
- Monthly, Microbial Source Tracking (MST) Maps - **Attachments 4c and 4d**
 - Town staff coordinates with the SC Department of Health and Environmental Control (SCDHEC) to pull MST samples concurrently with the state's routine

shellfish harvesting water quality sampling at stations 19-19, 19-19A, 19-19B, 19-19C, and 19-24. SCDHEC conducted sampling 4/04/22. The human genetic marker was not identified at any SCDHEC Shellfish Station.

- Town staff continues to work with Dr. Tye Pettay to acquire septic, sewage, horse, and dog fecal samples to implement 2020 May River Watershed Action Plan Model Report recommendations and to ensure representative regional marker specificity and sensitivity.
 - Illicit Discharge Investigations – **Attachment 4e**
- 8. MS4 MCM – #4 Construction Site Stormwater Runoff Control – Attachment 5**
 - 9. MS4 MCM – #5 Stormwater Plan Review and Related Activity – Attachment 6**
 - 10. MS4 MCM – #6 Good Housekeeping (Staff Training/Education)**
 - Jones participated in the Southeast Stormwater Association’s Board of Director’s meeting and annual Spring Seminar on 4/21 – 22/22.
 - MS4 MCM – #6 Good Housekeeping (Ditch, Drainage and Roadside Maintenance)**
 - Public Services performed weekly street sweeping on Calhoun Street, Highway 46, Bruin Road, May River Road, Pin Oak Street, and curbs and medians on Simmonsville and Buck Island Roads.
 - Performed ditch inspections
 - Arrow ditch (2,569 LF)
 - Red Cedar ditch (966 LF)
 - Buck Island roadside ditch (15,926 LF)
 - Simmonsville roadside ditch (13,792 LF)
 - Ongoing roadside mowing, litter clean-up and maintenance of Masters’ Way, McCracken Circle, Hampton Parkway, Buck Island and Simmonsville Roads, Goethe Road, Shults Road, Jason and Able Streets, Whispering Pine Road, May River Road and Eagles Field.
 - 11. Citizen Drainage, Maintenance, and Inspections Concerns Map – Attachment 7**
 - 12. Citizen Request for Watershed Management Services & Activities – Attachment 8**

Attachments

1. SCDHEC Shellfish Harvesting Monitoring Data Year-to-Date
 - a. SCDHEC May River Shellfish Harvesting Status Exhibit
2. May River Watershed Action Plan Implementation Summary*
3. MS4 Minimum Control Measures #1 and #2 – May River Watershed Action Plan Advisory
4. MS4 Minimum Control Measure #3 – Illicit Discharge Detection and Elimination
 - a. Stormwater Infrastructure Inventory Map
 - b. *E. coli* Concentrations Trend Map
 - c. Microbial Source Tracking Trend Map – Human Source
 - d. Microbial Source Tracking Map – All Sources
 - e. Illicit Discharge Investigations

5. MS4 Minimum Control Measure #4 – Construction Site Stormwater Runoff Control
6. MS4 Minimum Control Measure #5 – Stormwater Plan Review and Related Activity
7. Citizen Drainage, Maintenance and Inspections Concerns Map
8. Citizen Request for Watershed Management Services and Activities Map
9. CIP Project Schedules

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

	19-19				19-19A				19-19B				19-19C				19-24				19-16			
	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022
	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)
December	170.0	17.0	79.0		33.0	22.0	49.0		140.0	17.0	4.5		33.0	4.5	17.0		13.0	4.0	6.8		110.0	11.0	7.8	
November	17.0	70.0	33.0		6.8	31.0	33.0		7.8	17.0	7.8		11.0	13.0	4.0		4.5	13.0	4.5		2.0	4.5	2.0	
October	7.8	49.0	49.0		4.5	79.0	26.0		2.0	31.0	13.0		4.5	21.0	23.0		1.8	33.0	23.0		2.0	79.0	17.0	
September	79.0	110.0	33.0		33.0	49.0	11.0		6.8	49.0	17.0		17.0	33.0	13.0		4.5	33.0	2.0		1.8	33.0	11.0	
August	70.0	49.0	49.0		49.0	49.0	49.0		33.0	23.0	23.0		22.0	23.0	49.0		7.8	17.0	14.0		17.0	22.0	14.0	
July	4.5	33.0	350.0		13.0	13.0	64.0		7.8	23.0	79.0		17.0	7.8	33.0		22.0	7.8	33.0		13.0	17.0	13.0	
June	33.0	NS	49.0		49.0	NS	79.0		49.0	NS	13.0		46.0	NS	17.0		13.0	NS	22.0		4.5	NS	2.0	
May	7.8	70.0	2.0		9.2	49.0	49.0		7.8	23.0	23.0		2.0	22.0	23.0		6.8	6.8	23.0		4.5	4.5	7.8	
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	39.0	23.0	21.0	26.0	29.0	16.0	16.0	18.0	18.0	14.0	12.0	15.0	13.0	10.0	10.0	10.0	10.0	7.0	9.0	8.0	8.0
** Truncated 90th Percentile	168.0	106.0	139.0	144.0	89.0	59.0	69.0	74.0	63.0	50.0	58.0	60.0	52.0	37.0	39.0	36.0	38.0	31.0	35.0	41.0	32.0	35.0	33.0	30.0

NS = No Sample

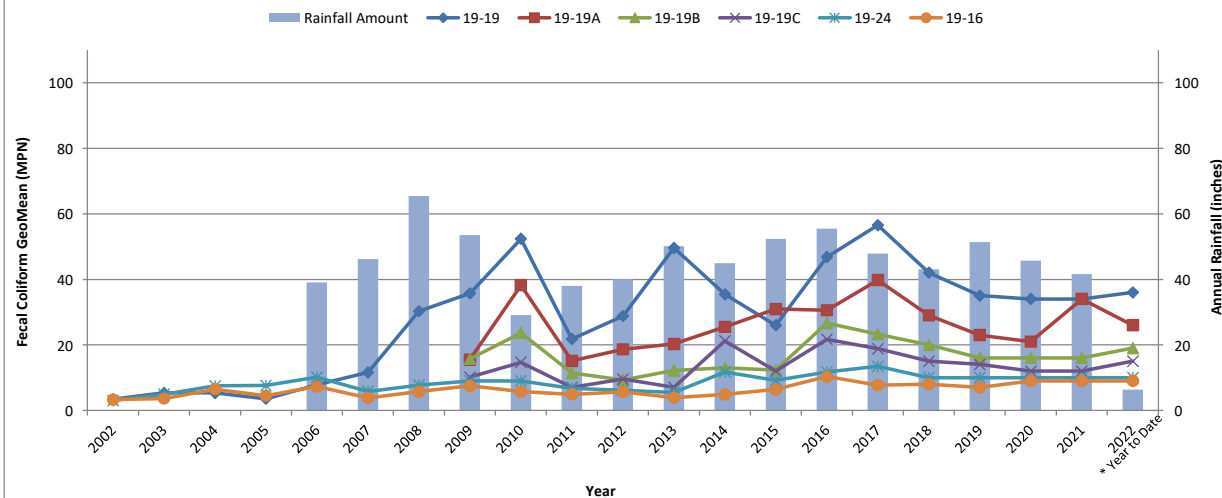
SCDHEC Regulatory Requirements:

Geometric Mean ≤ 14

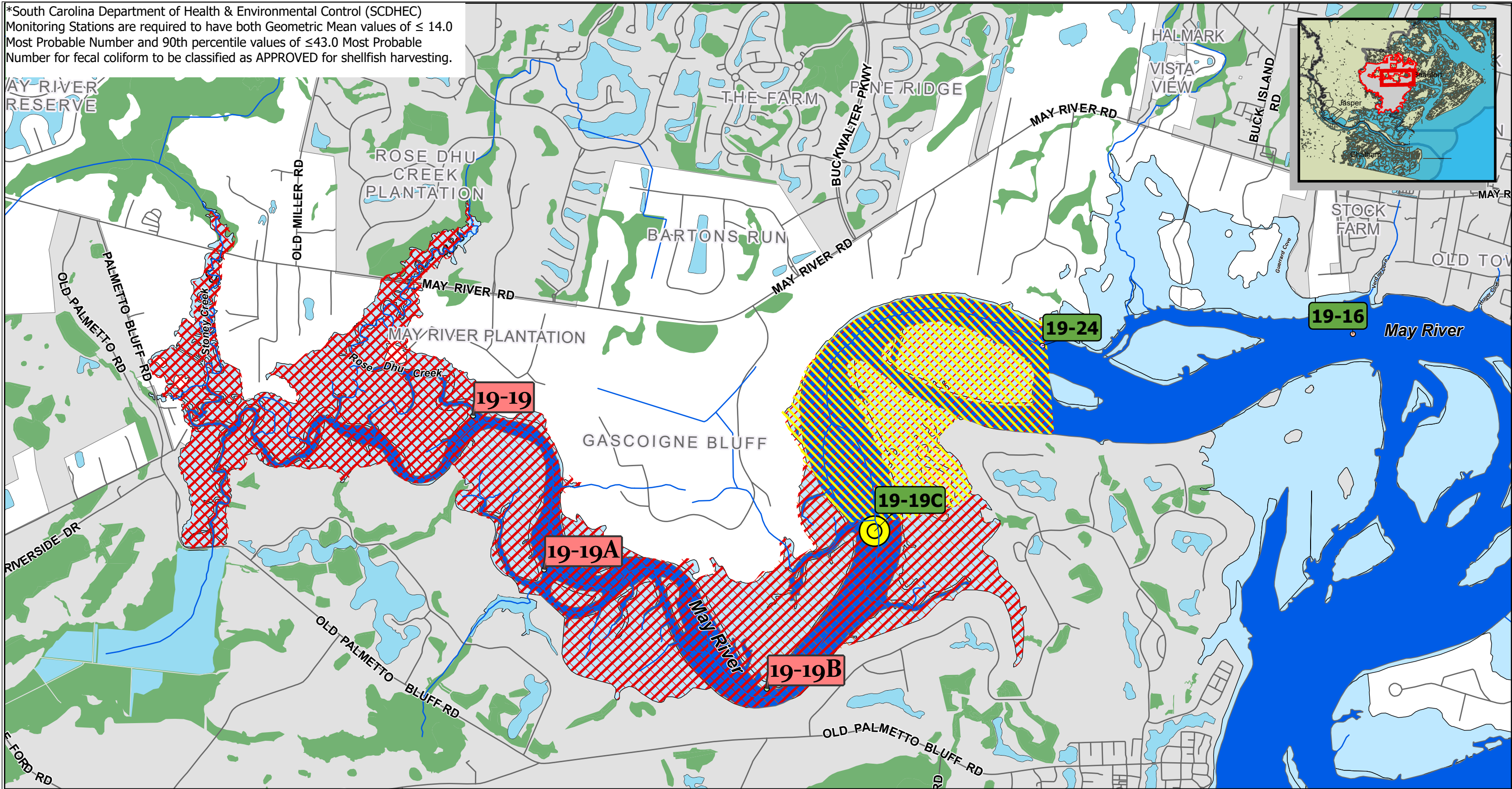
90th Percentile ≤ 43

** Town staff calculations utilizing SCDHEC statistics

SCDHEC May River Headwaters Shellfish Stations Average Annual Fecal Coliform



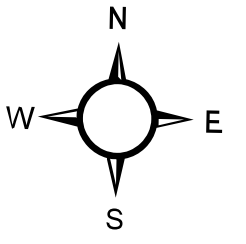
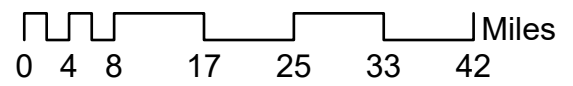
*South Carolina Department of Health & Environmental Control (SCDHEC) Monitoring Stations are required to have both Geometric Mean values of ≤ 14.0 Most Probable Number and 90th percentile values of ≤ 43.0 Most Probable Number for fecal coliform to be classified as APPROVED for shellfish harvesting.



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

Town of Bluffton
Beaufort County, SC

SCDHEC SHELLFISH HARVESTING STATUS



ACTIVITY - FINANCIAL	STATUS
Funding Opportunities	Council unanimously adopted \$115 SWU Fee and NPDES-related Fees on 6/9/20.
ACTIVITY - POLICIES	STATUS
Sewer Connection & Extension Policy	<i>Completed 2017.</i>
Septic to Sewer Conversion Program	<i>Completed 2018.</i>
Sewer Connection Ordinance and Ordinance Amendment	<i>Completed 2015 and 2018, respectively.</i>
Southern Lowcountry Regional Stormwater Ordinance and Design Manual	<i>Current project updates are included in Engineering Consent Agenda under "Southern Lowcountry Regional Board (SoLoCo)."</i>
ACTIVITY - PROJECTS	STATUS
Sanitary Sewer Extension	Completed Buck Island/Simmonsville Road (BIS) Phases I, II, III, IV; Toy Fields; Jason/Able; and Poseys Court. Six project phases of Historic District sewer extension are proposed in the 5-year Capital Improvement Program. <i>Current project updates are included in Engineering Consent Agenda under "Sewer & Water."</i>
May River 319 Grant Phase 1 - New Riverside Pond (Grant award of \$483,500 in 2009)	<i>Completed 2013.</i>
May River 319 Grant Phase 2 - Pine Ridge (Grant award of \$290,000 in 2011)	<i>Completed 2016.</i>
May River 319 Grant Phase 3 - Town Hall Parking Retrofit (Grant award of \$231,350 in 2016)	<i>Completed 2019.</i>
May River 319 Grant Phase 4 - Sanitary Sewer Connections (Grant award of \$365,558.36 in 2019)	Grant to construct 49 sewer lateral connections in Poseys Court, Little Aaron and Historic District Phases 1 and 2. <i>Current project updates are included in Engineering Consent Agenda under "Sewer & Water."</i>
May River 319 Grant Phase 5 - Bridge Street Streetscape (Grant award of \$179,900 in 2020)	Supports enhanced drainage and water quality improvements as part of the Bridge Street Streetscape project. <i>Current project updates are included in Engineering Consent Agenda under "Pathways."</i>
Stoney Creek Wetlands Restoration: Preliminary Design Phase	Project on hold following Council direction on 5/31/17.
May River Watershed Action Plan Update & Modeling Report	<i>Completed 2021. Town Council adopted the document as a supporting document to the Comprehensive Plan on 2/9/21.</i>
ACTIVITY - PROGRAMS	STATUS
Public Outreach/Participation/Involvement (MS4 Minimum Control Measures #1 & 2)	Outreach and involvement efforts continue through county-wide partnership with Carolina Clear as Lowcountry Stormwater Partners - Neighbors for Clean Water, through local cleanups, civic group presentations, and the May River Watershed Action Plan Advisory Committee. <i>Current updates are included in Engineering Consent Agenda and Attachment 3.</i>
Infrastructure Mapping/GIS (MS4 Minimum Control Measure #3)	Data points continue to be collected with new development to meet MS4 requirements & populate water quality model. <i>Current updates are included in Engineering Consent Agenda Attachment 4a.</i>

ACTIVITY - PROGRAMS continued	STATUS continued
Water Quality Monitoring Program (MS4 Minimum Control Measure #3)	1. SCDHEC Shellfish monitoring results and map 2. <i>E. coli</i> bacteria "hot spot" concentrations 3. Microbial Source Tracking of bacteria 4. Illicit Discharge investigation and monitoring 5. BMP efficacy monitoring 6. MS4 monitoring <i>Current updates are included in Engineering Consent Agenda Attachments 1, 1a, 4b - 4d.</i>
Illicit Discharge Detection & Elimination (IDDE) Program (MS4 Minimum Control Measure #3)	Response to reported and observed non-stormwater discharges to the stormwater drainage system. <i>Current updates are included in Engineering Consent Agenda Attachment 4e.</i>
Construction Site Stormwater Runoff Control Program (MS4 Minimum Control Measure #4)	Sediment and erosion control inspections with escalating enforcement response. <i>Current updates are included in Engineering Consent Agenda Attachment 5.</i>
Stormwater Plan Review & Related Activity Program (MS4 Minimum Control Measure #5)	SCDHEC delegated plan review-related activities. <i>Current updates are included in Engineering Consent Agenda Attachment 6.</i>
Ditch Inspection/Maintenance Program (MS4 Minimum Control Measure #6)	Continued coordination with SCDOT, Beaufort County and Town Public Works to inspect and maintain ditches within the Town's jurisdiction. <i>Current updates are included in Engineering Consent Agenda Attachment 7.</i>
Neighborhood Assistance Program - Septic System Maintenance Program	On-going assistance offered to Town residents regardless of financial status through Neighborhood Assistance Program (NAP). <i>Current updates are provided in Growth Management Consent Agenda.</i>



PUBLIC NOTICE

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

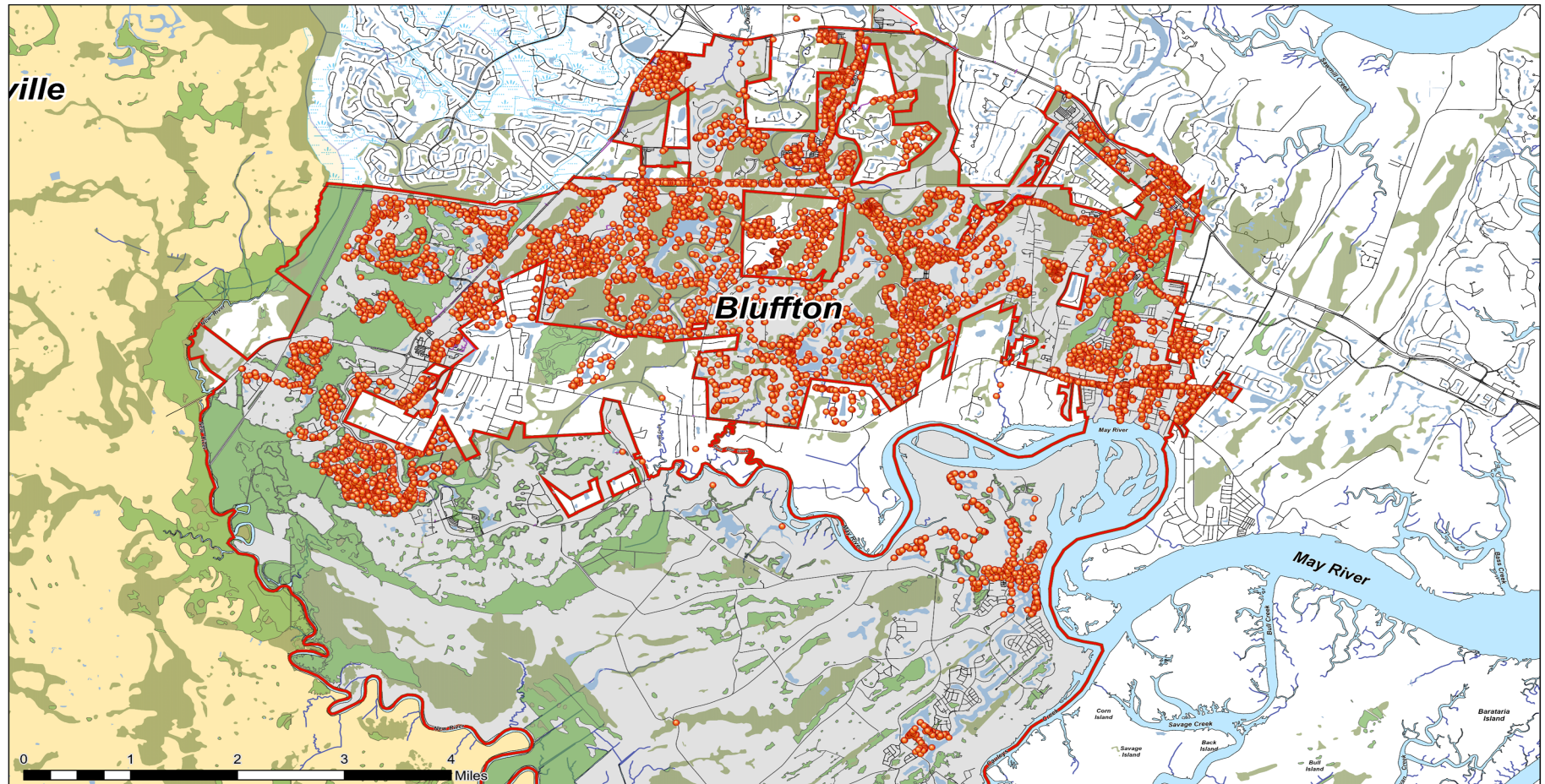
Thursday, April 28, 2022, at 9:00 A.M.

has been CANCELED due to lack of quorum.

The next meeting is scheduled for
Thursday, May 26, 2022

If you have questions, please contact
the Watershed Management Division
at: 843-706-4559

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


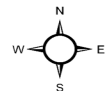


- SW STRUCTURE
- SW PIPE
- TOWN OF BLUFFTON
- BEAUFORT COUNTY
- JASPER COUNTY
- WETLAND
- WATER
- ROADS

Town of Bluffton
Beaufort County, SC

STORMWATER INFRASTRUCTURE

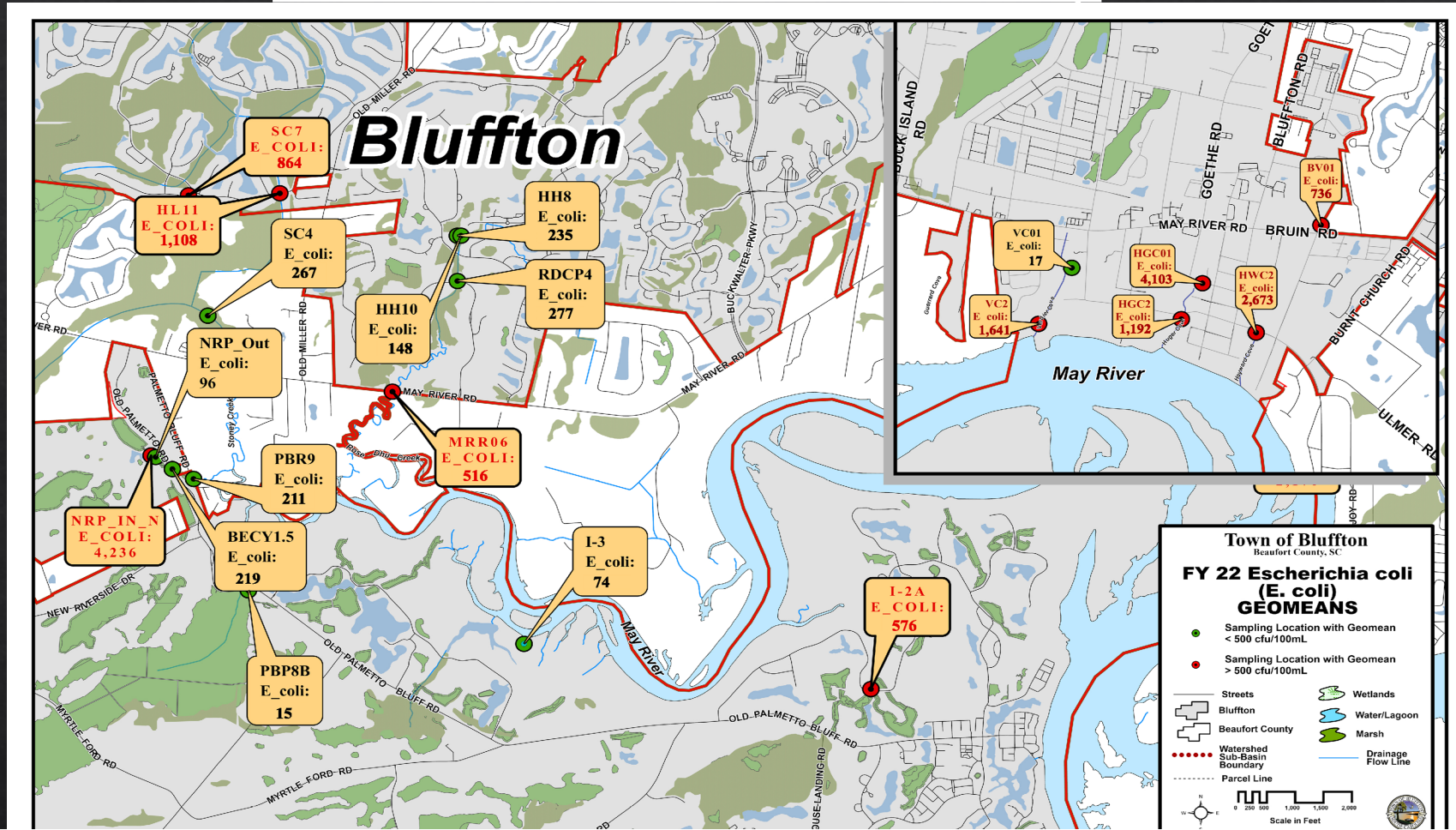
This map was prepared by the Information Management Department of the Town of Bluffton. It is intended to provide a general overview of the stormwater infrastructure inventory. It is not intended to be used for legal or engineering purposes. The Town of Bluffton is not responsible for any errors or omissions in this map.

Updated Date: 4/19/22

Stormwater Infrastructure Inventory Collection Status	
FY 2022 YTD Collection Totals	1,702
FY 2021 Collection Totals	2,222
FY 2020 Collection Totals	4,878
FY 2019 Collection Totals	2,925

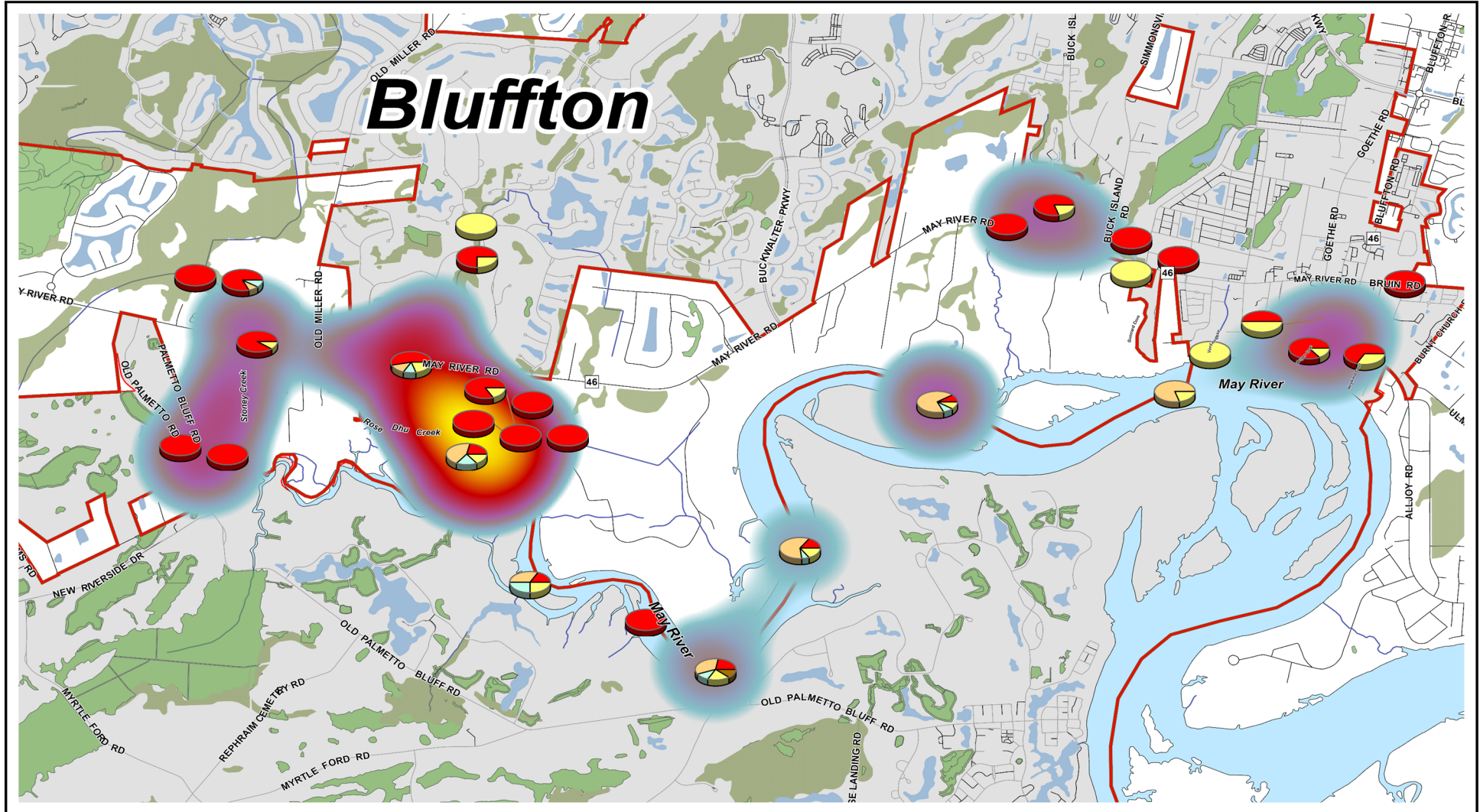
MS4 Minimum Control Measure #3 – IDDE: *E. coli* Concentrations Trend Map



	USCB Water Quality Samples	Microbial Source Tracking Samples	MS4 Quarterly Samples Collected
FY 2022 YTD Totals	317	69	119
FY 2021 Totals	380	115	179
FY 2020 Totals	223	115	123
FY 2019 Totals	280	193	264

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

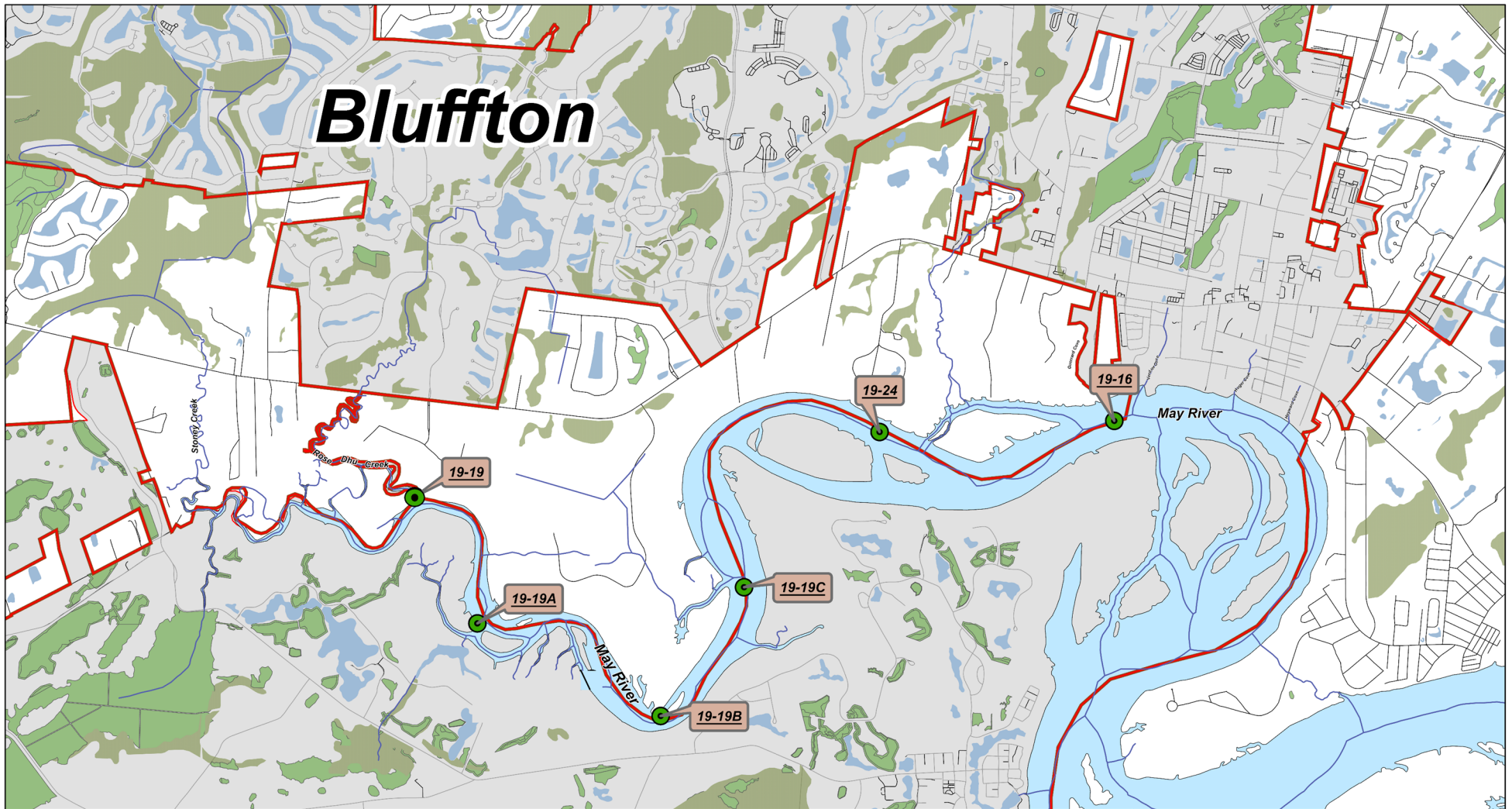
Town of Bluffton
Beaufort County, SC

- Town Jurisdiction
- Beaufort County
- Drainage Flow Lines

Updated Date: 4/19/2022



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

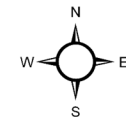


- MST Sampling Location Without Detection
- MST Sampling Location With Detection
- Flowline
- Street
- ☐ Town Jurisdiction ☐ County Jurisdiction

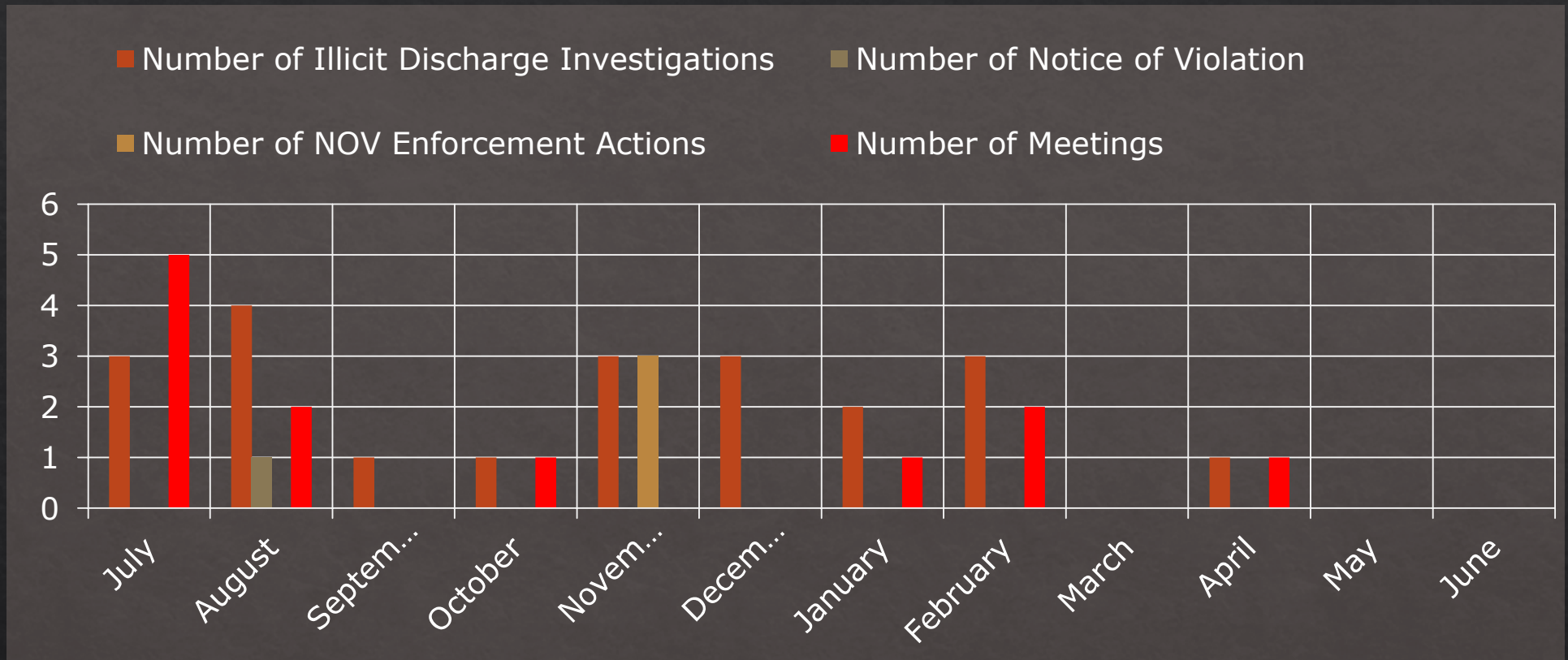
MICROBIAL SOURCE TRACKING LOCATIONS

Sampling Results April 2022

Town of Bluffton
Beaufort County, SC



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



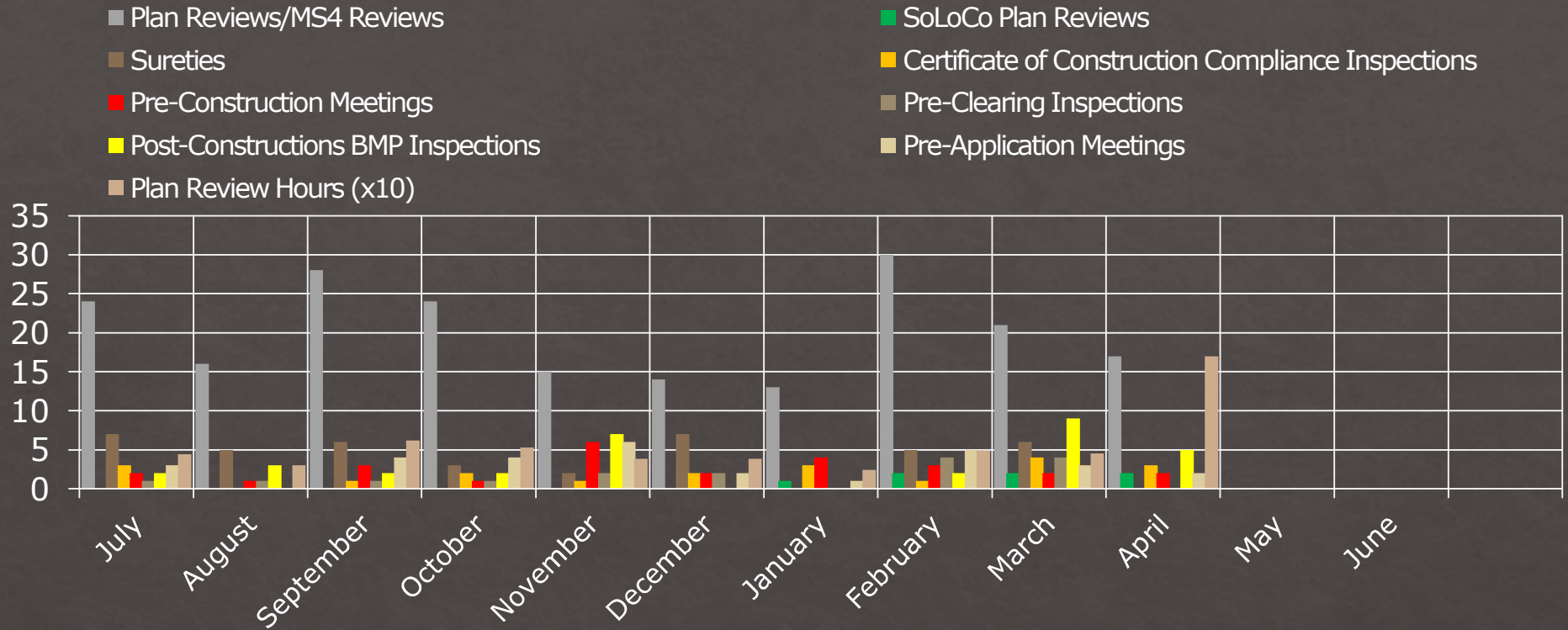
	Number of Illicit Discharge Investigations	Number of Notices of Violation Issued	Number of NOV Enforcement Actions	Number of Meetings
FY 2022 YTD Totals	21	1	3	12
FY 2021 Totals	36	11	1	29
FY 2020 Totals	45	8	6	49
FY 2019 Totals	38	3	1	61

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



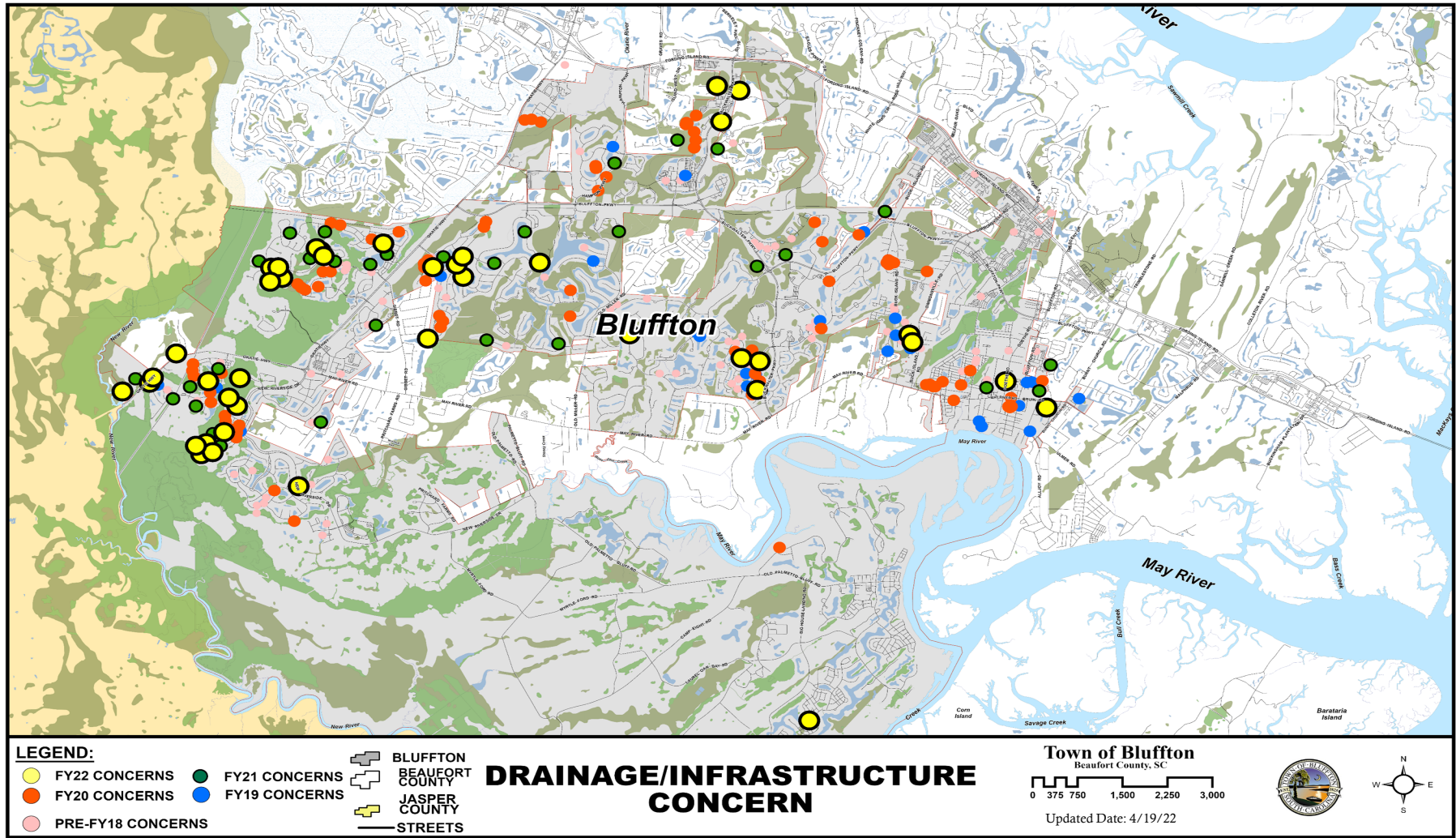
	Number of Sediment & Erosion Control Inspections	Number of Inspections Passed	Number of NOVs Issued	Number of SWO Issued	Number of NOV Enforcement Actions	Number of E&SC Meetings
FY 2022 YTD Totals	2,601	2,247	332	37	25	547
FY 2021 Totals	1,805	1,527	267	32	4	413
FY 2020 Totals	1,517	1,187	185	16	9	496

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



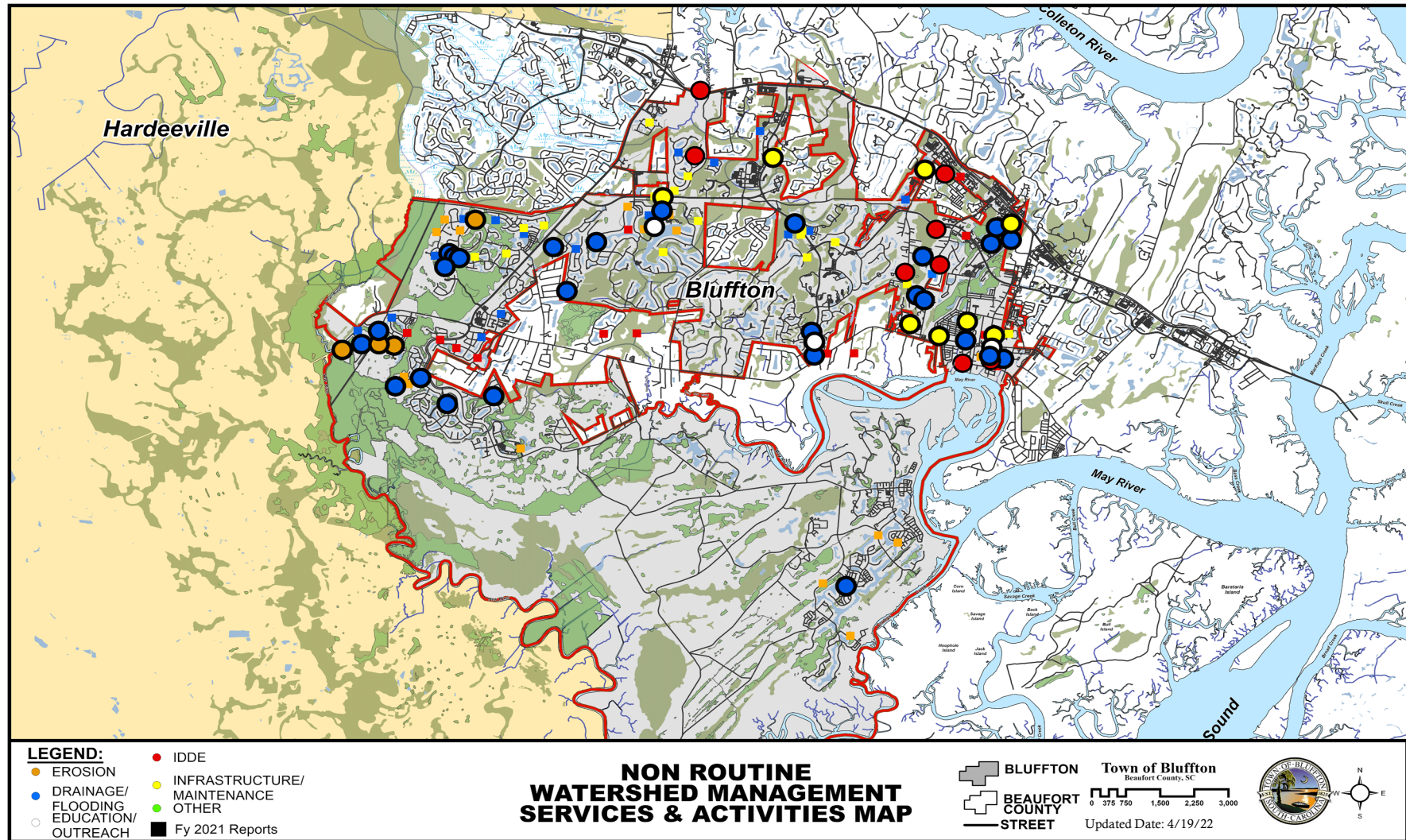
	Plan Reviews MS4 Reviews	SoLoCo Plan Reviews	Sureties	CCC Inspections	Pre-Construction Meetings	Pre-Clearing Inspections	Post Construction BMP Inspections	Pre-Application Meetings	Total Plan Review Hours
FY 2022 YTD Totals	202	7	41	20	26	16	32	30	383 Hrs.
FY 2021 Totals	186	0	61	55	24	24	22	41	789 Hrs.
FY 2020 Totals	176	0	53	46	36	17	8	36	1,040 Hrs.

Citizen Drainage, Maintenance and Inspections Concerns Map



	Number of Drainage Concerns Investigated	Number of Meetings
FY 2022 YTD Totals	28	27
FY 2021 Totals	45	39
FY 2020 Totals	68	76

Citizen Request for Watershed Mngt. Services & Activities Map



	Number of Citizen Requests Investigated	Number of Meetings
FY 2022 YTD Totals	29	21
FY 2021 Totals	46	36
FY 2020 Totals	99	102

BRIDGE STREET STREETScape
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2020 2021 2022																																			
					A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M		
1	BRIDGE STREET STREETScape	681 days	Mon 9/2/19	Mon 4/11/22	◆																																			
2	Planning and Conceptual Design	233 days	Mon 9/2/19	Wed 7/22/20	◆																																			
17	Final Design	338 days	Wed 7/22/20	Fri 11/5/21	◆																																			
23	Permitting	155 days	Mon 5/3/21	Fri 12/3/21	◆																																			
28	Easements and Land Acquisition	200 days	Mon 4/19/21	Fri 1/21/22	◆																																			
35	Bidding	71 days	Mon 1/3/22	Mon 4/11/22	◆																																			

Project: 00082 Date: Wed 2/23/22	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	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3	10/10	10/17	10/24	10/31	11/7	11/14	11/21	11/28	12/5	12/12	12/19	12/26	1/2	1/9	1/16	1/23	1/30	2/6	2/13	2/20	2/27	3/6	3/13	3/20
1	PARK IMPROVEMENTS FY 22	165 days	Mon 7/26/21	Fri 3/11/22	◆																																			
2	Final Planning and Construction Documents	55 days	Mon 7/26/21	Fri 10/8/21	◆																																			
8	Bidding and Contracts	55 days	Mon 10/11/21	Fri 12/24/21	◆																																			
16	Construction	35 days	Mon 1/24/22	Fri 3/11/22	◆																																			

Project 00086 Wed 2/23/22	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
	Critical Task	★	Planning and Conceptual Design	◆	Easements and Land Acquisition	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contracts	◆		

NEW RIVER TRAIL
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	July	August	September	October	November	December	January	February	March	April	May	June	July	August
					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	NEW RIVER TRAIL	287 days	Mon 7/5/21	Tue 8/9/22	◆—————◆													
2	Planning	121 days	Mon 7/5/21	Mon 12/20/21	◆—————◆													
14	Final Planning and Construction Documents	80 days	Mon 1/3/22	Fri 4/22/22	◆—————◆													
24	Permitting	40 days	Mon 3/14/22	Fri 5/6/22	◆—————◆													
29	Bidding and Contracts	72 days	Mon 5/2/22	Tue 8/9/22	◆—————◆													

Project 00092 Tue 10/5/21	Milestone	◆	Project Duration	◆—————◆	Permitting	◆—————◆	Construction	◆—————◆
	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																																				

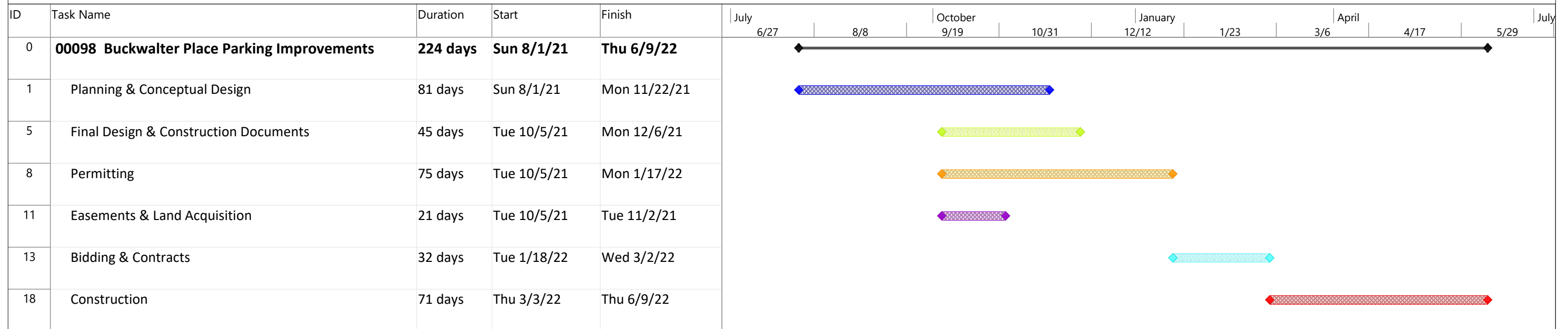
Project: 00093 Date: Wed 11/24/21	Milestone	◆	Project Duration	◆————◆	Permitting	◆————◆	Construction	◆————◆
	Critical Task	★	Planning and Conceptual Design	◆————◆	Easements and Land Acquisition	◆————◆		
	Task	■	Final Design and Construction Documents	◆————◆	Bidding and Contracts	◆————◆		

BOUNDARY STREET STREETScape
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct							
					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	BOUNDARY STREET STREETScape	561 days	Mon 9/7/20	Mon 10/31/22	◆																																
2	Planning and Conceptual Design	379 days	Mon 9/7/20	Thu 2/17/22	◆																																
14	Final Planning and Construction Documents	444 days	Wed 2/17/21	Mon 10/31/22	◆																																
27	Permitting Phase	264 days	Mon 8/9/21	Thu 8/11/22	◆																																
32	Easements and Land Acquisition	116 days	Fri 5/13/22	Fri 10/21/22	◆																																

Project: 00094	Milestone	◆	Task	█	Planning and Conceptual Design	◆	Permitting	█	Easements and Land Acquisitions	◆	Construction
Date: Wed 2/23/22	Critical Task	★	Project Duration	◆	Final Design and Construction Documents	█	Bidding and Contract	█		◆	

**BUCKWALTER PLACE PARKING IMPROVEMENTS
PROPOSED SCHEDULE**



Project: 00098 Date: Thu 10/21/21	Milestone	◆	Project Duration	◆—————◆	Permitting	◆—————◆	Construction	◆—————◆
	Critical Task	★	Planning and Conceptual Design	◆—————◆	Easements and Land Acquisition	◆—————◆		
	Task	■	Final Design and Construction Documents	◆—————◆	Bidding and Contracts	◆—————◆		









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

ID	Task Name	Duration	Start	Finish	21	Qtr 3, 2021	Qtr 4, 2021	Qtr 1, 2022	Qtr 2, 2022	Qtr 3, 2022	Qtr 4, 2022	Qtr 1, 2023	Qtr 2, 2023	Qtr 3, 2023	Qtr 4, 2023	Qtr 1, 2024	Qtr 2, 2024	Qtr 3, 2024	Qtr 4, 2024	Qtr 1, 2025	Qtr 2, 2025	Qtr 3, 2025	Qtr 4, 2025	Qtr 1, 2026	Qtr 2, 2026	Qtr 3, 2026																																	
					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	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	Comprehensive Drainage Plan Improvements	1304 days	Thu 7/1/21	Tue 6/30/26	←-----→																																																						
2	Asset Inventory and H/H Model	731 days	Mon 8/2/21	Mon 5/20/24	-----→																																																						
3	Final Design Drainage Projects	566 days	Mon 5/1/23	Mon 6/30/25	-----→																																																						
4	Comprehensive Drainage Projects Bid and Award	350 days	Mon 7/1/24	Fri 10/31/25	-----→																																																						
5	Comprehensive Drainage Construction	483 days	Fri 8/23/24	Tue 6/30/26	-----→																																																						

Project: 00044
Date: Fri 10/29/21

Milestone ◆
Critical Task ★

Task
Project Duration

	Planning and Conceptual Design		Permitting		Easements and Land Acquisitions		
	Final Design and Construction Documents		Bidding and Contract		Construction		

CALHOUN STREET STREETScape
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	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
1	CALHOUN STREET STREETScape	796 days	Mon 5/18/20	Mon 6/5/23	◆																																						
2	Planning and Conceptual Design	80 days	Mon 5/18/20	Fri 9/4/20	◆																																						
7	Final Planning and Construction Documents	535 days	Mon 9/7/20	Fri 9/23/22	◆																																						
28	Permitting Phase (Phase 1)	75 days	Mon 6/13/22	Fri 9/23/22	◆																																						
33	Easements and Land Acquisition (Phase 1)	261 days	Mon 6/6/22	Mon 6/5/23	◆																																						

Project: 00042
Date: Wed 11/24/21

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

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

ID	Task Name	Duration	Start	Finish	Predecessors	Timeline																							
						4, 2016 Nov Dec	Qtr 1, 2017 Jan Feb Mar	Qtr 2, 2017 Apr May Jun	Qtr 3, 2017 Jul Aug Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct Nov Dec	Qtr 1, 2020 Jan Feb Mar	Qtr 2, 2020 Apr May Jun	Qtr 3, 2020 Jul Aug Sep	Qtr 4, 2020 Oct Nov Dec	Qtr 1, 2021 Jan Feb Mar	Qtr 2, 2021 Apr May Jun	Qtr 3, 2021 Jul Aug Sep	Qtr 4, 2021 Oct Nov Dec	Qtr 1, 2022 Jan Feb Mar	Qtr 2, 2022 Apr May Jun	Qtr 3, 2022 Jul Aug Sep
1	PHASE 5 A-D	1560 days?	Thu 12/1/16	Wed 11/23/22		◆																							
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	568 days	Mon 9/21/20	Wed 11/23/22		◆																							
41																													
42																													

Project: 00044
Date: Wed 11/24/21

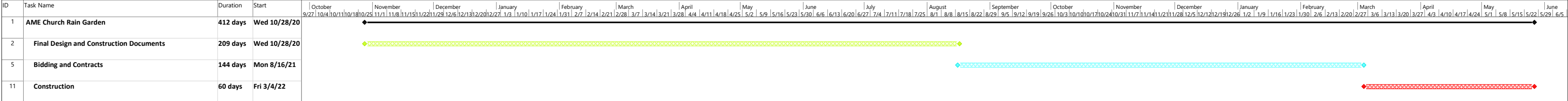
Milestone	◆	Task	█	Planning and Conceptual Design	◆	Permitting	█	Easements and Land Acquisitions	◆	Construction
Critical Task	★	Project Duration	◆	Final Design and Construction Documents	◆	Bidding and Contract	█	Construction	◆	

HISTORIC DISTRICT STREETScape AND DRAINAGE IMPROVEMENTS
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	
1	ADA Compliance Improvements	288 days	Thu 7/1/21	Mon 8/8/22	
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	50 days	Mon 2/21/22	Fri 4/29/22	
17	Bidding and Contract	37 days	Sun 5/1/22	Mon 6/20/22	
21	Construction	35 days	Tue 6/21/22	Mon 8/8/22	

Project: 00050 Date: Thu 4/21/22	Milestone Critical Task	◆ ★	Task Project Duration	Planning and Conceptual Design Final Design and Construction Documents	Permitting Bidding and Contract	Easements and Land Acquisitions Construction	
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HISTORIC DISTRICT STREETScape AND DRAINAGE IMPROVEMENTS
PROPOSED SCHEDULE



Project: 00050 AME Date: Mon 1/24/22	Milestone	◆	Task	Planning and Conceptual Design	Permitting	Easements and Land Acquisitions	
	Critical Task	★	Project Duration	Final Design and Construction Documents	Bidding and Contract	Construction	

BUCK ISLAND-SIMMONSVILLE NEIGHBORHOOD SIDEWALKS
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2018												2019												2020												2021												2022												2023																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
					J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
1	SIDEWALKS AND LIGHTING	1440 days	Thu 2/1/18	Wed 8/9/23	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
2	Sidewalk from Jennifer Ct to Simmonsville Rd	405 days	Thu 2/1/18	Wed 8/21/19	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
3	Final Design and Construction Documents	120 days	Thu 2/1/18	Wed 7/18/18	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
7	Permitting	63 days	Thu 6/21/18	Mon 9/17/18	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
9	Easements	220 days	Wed 7/18/18	Tue 5/21/19	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
15	Bidding/Contract	106 days	Tue 9/18/18	Tue 2/12/19	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
20	Construction	61 days	Wed 5/29/19	Wed 8/21/19	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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27	Sidewalk from Kitty Road to 301 Buck Island Rd	709 days	Thu 2/1/18	Tue 10/20/20	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
28	Final Design and Construction Documents	392 days	Thu 2/1/18	Fri 8/2/19	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
34	Permitting	40 days	Mon 8/5/19	Fri 9/27/19	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
36	Easements	87 days	Mon 9/30/19	Tue 1/28/20	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
42	Bidding/Contract	97 days	Mon 9/30/19	Tue 2/11/20	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
47	Construction	136 days	Tue 4/14/20	Tue 10/20/20	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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54	Sidewalk from Grayco to Sugaree (Simmonsville)	923 days	Mon 10/1/18	Wed 4/13/22	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
55	Final Design and Construction Documents	520 days	Mon 10/1/18	Fri 9/25/20	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
61	Permitting	180 days	Mon 9/28/20	Fri 6/4/21	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
63	Easements	86 days	Mon 6/7/21	Mon 10/4/21	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
68	Bidding/Contract	47 days	Mon 6/7/21	Tue 8/10/21	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
73	Construction	176 days	Wed 8/11/21	Wed 4/13/22	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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81	Sidewalk from Sugaree to Windy Lake	475 days	Thu 7/1/21	Wed 4/26/23	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
82	Final Design and Construction Documents	200 days	Thu 7/1/21	Wed 4/6/22	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
86	Permitting	60 days	Thu 4/7/22	Wed 6/29/22	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
88	Easements	0 days	Wed 6/29/22	Wed 6/29/22																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
93	Bidding/Contract	61 days	Thu 6/30/22	Thu 9/22/22	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
98	Construction	154 days	Fri 9/23/22	Wed 4/26/23	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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106	Lighting - Kitty Road to 301 Buck Island Rd	329 days	Thu 5/13/21	Tue 8/16/22	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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114	Lighting - Grayco to Windy Lakes	150 days	Thu 1/12/23	Wed 8/9/23	◆																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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Project: 00054 Date: Tue 3/29/22	Milestone	◆	Project Duration	◆—◆	Permitting	◆—◆	Construction	◆—◆
	Critical Task	★	Planning and Conceptual Design	◆—◆	Bidding and Contract	◆—◆		
	Task	■	Final Design and Construction Documents	◆—◆	Easements and Land Acquisitions	◆—◆		

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

ID	Task Name	Duration	Start	Finish	2018		Half 2, 2018			Half 1, 2019			Half 2, 2019			Half 1, 2020			Half 2, 2020			Half 1, 2021			Half 2, 2021			Half 1,				
					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	193 days	Wed 4/21/21	Fri 1/14/22																												

Project: 00055
Date: Fri 10/22/21

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

OYSTER FACTORY PARK
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2020												2021												2022											
					O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
1	Oyster Factory Park	830 days	Mon 10/14/19	Fri 12/16/22																																				
2	Planning and Conceptual Design	625 days	Mon 10/14/19	Fri 3/4/22																																				
9	Easement and Land Acquisition	210 days	Tue 5/11/21	Mon 2/28/22																																				
11	Construction	205 days	Mon 3/7/22	Fri 12/16/22																																				

Project: 00059
Date: Wed 11/24/21

Milestone
Critical Task
Task



Project Duration
Planning and Conceptual Design
Final Design and Construction Documents



Permitting
Easements and Land Acquisition
Bidding and Contracts



Construction



OSCAR FRAZIER PARK
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	August	September	October	November	December	January	February	March	April				
1	OSCAR FRAZIER PARK FY 22 IMPROVEMENTS	181 days	Mon 7/26/21	Mon 4/4/22	◆												
2	Final Planning and Construction Documents	60 days	Mon 7/26/21	Fri 10/15/21	◆												
8	Bidding and Contracts	41 days	Mon 10/18/21	Mon 12/13/21	◆												
15	Construction	101 days	Mon 11/15/21	Mon 4/4/22	◆												

Project 00066
Tue 3/29/22

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

SQUIRE POPE CARRIAGE HOSUE
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Jul	Aug	Sep	Oct	Nov	Dec	2022 Jan	Feb	Mar	Apr				
1	Stabilization Phase	175 days	Thu 7/8/21	Wed 3/9/22	◆—————◆													
2	Planning and Conceptual Design	15 days	Thu 7/8/21	Wed 7/28/21	◆—————◆													
5	Final Design and Construction Documents	80 days	Thu 7/29/21	Wed 11/17/21	◆—————◆													
10	Permitting	30 days	Thu 11/18/21	Wed 12/29/21	◆—————◆													
12	Bidding and Contracts	50 days	Thu 12/30/21	Wed 3/9/22	◆—————◆													

Project: 00067 Date: Tue 3/29/22	Milestone	◆	Project Duration	◆—————◆	Permitting	◆—————◆	Construction	◆—————◆
	Critical Task	★	Planing and Conceptual Design	◆—————◆	Easements and Land Acquisitions	◆—————◆		
	Task	■	Final Design and Construction Documents	◆—————◆	Bidding and Contracts	◆—————◆		

WHARF STREET LIGHTING

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	Jun	Jul	Aug
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: Tue 3/29/22

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 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											
1	BOUNDARY STREET LIGHTING PHASE 2	683 days	Mon 7/8/19	Wed 2/16/22	◆																																
2	Planning and Conceptual Design	661 days	Mon 7/8/19	Mon 1/17/22	◆																																
13	Permitting	90 days	Mon 1/20/20	Fri 5/22/20	◆																																
15	Easements and Land Acquisition	164 days	Tue 6/1/21	Fri 1/14/22	◆																																
18	Construction	118 days	Mon 9/6/21	Wed 2/16/22	◆																																

Project: 00069 Date: Wed 11/24/21	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
	Critical Task	★	Planning and Conceptual Design	◆	Easements and Land Acquisition	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contract	◆		

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 3
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2021												2022																	
					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	PHASE 3	534 days	Mon 11/2/20	Thu 11/17/22	◆																													
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	105 days	Tue 9/21/21	Mon 2/14/22	◆																													
17	Bidding and Contracts	46 days	Tue 5/10/22	Tue 7/12/22	◆																													
22	Construction	92 days	Wed 7/13/22	Thu 11/17/22	◆																													

Project: 00072
Date: Wed 11/24/21

Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
Critical Task	★	Planing and Conceptual Design	◆	Easements and Land Acquisitions	◆		
Task	■	Final Design and Construction Documents	◆	Bidding and Contracts	◆		

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 4
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2021												2022															
					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		
1	PHASE 4	534 days	Mon 11/2/20	Thu 11/17/22	◆																											
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	105 days	Tue 9/21/21	Mon 2/14/22	◆																											
17	Bidding and Contracts	46 days	Tue 5/10/22	Tue 7/12/22	◆																											
22	Construction	92 days	Wed 7/13/22	Thu 11/17/22	◆																											

Project: 00073 Date: Wed 2/23/22	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 5
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2021												2022															
					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		
1	PHASE 5	534 days	Mon 11/2/20	Thu 11/17/22	◆																											
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	150 days	Tue 9/21/21	Mon 4/18/22	◆																											
17	Bidding and Contracts	46 days	Tue 5/10/22	Tue 7/12/22	◆																											
22	Construction	92 days	Wed 7/13/22	Thu 11/17/22	◆																											

Project: 00074 Date: Wed 11/24/21	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 6
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2021												2022															
					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		
1	PHASE 6	534 days	Mon 11/2/20	Thu 11/17/22	◆																											
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	150 days	Tue 9/21/21	Mon 4/18/22	◆																											
17	Bidding and Contracts	46 days	Tue 5/10/22	Tue 7/12/22	◆																											
22	Construction	92 days	Wed 7/13/22	Thu 11/17/22	◆																											

Project: 00075 Date: Wed 11/24/21	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
	Critical Task	★	Planing and Conceptual Design	◆	Easements and Land Acquisitions	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contracts	◆		

MAY RIVER ROAD POCKET PARK
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	
1	MAY RIVER ROAD POCKET PARK	278 days	Thu 7/1/21	Mon 7/25/22	
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	
25	Construction	44 days	Wed 5/25/22	Mon 7/25/22	
28					
29					

Project: 00080
Date: Fri 12/3/21

Milestone Task
Critical Task Project Duration

Planning and Conceptual Design Permitting
 Final Design and Construction Documents Bidding and Contract

Easements and Land Acquisitions
 Construction

GARVIN-GARVEY HOUSE INTERPRETIVE SIGNAGE
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Timeline																													
					Mar '22	Apr '22	May '22	Jun '22	Jul '22	Aug '22	Sep '22	Oct '22	Nov '22																					
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	5 days	Mon 10/31/22	Fri 11/4/22																														
16																																		

Project: 00081 Date: Tue 1/11/22	Milestone	◆	Project Duration	◆————◆	Permitting	◆————◆	Construction	◆————◆
	Critical Task	★	Planning and Conceptual Design	◆————◆	Easements and Land Acquisition	◆————◆		
	Task	■	Final Design and Construction Documents	◆————◆	Bidding and Contracts	◆————◆		