



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

November 2021

Stormwater Utility Board Packet – October

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2. Amended Minutes – August meeting – [Attached](#)
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October 2021

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:

All project milestones have been completed.

2. Regionalization
 - a) Regional Stormwater Design Standard and Model Ordinance Project – See update above.
 - b) Regionalization of programs – With the finalization of the Regional Stormwater Design Standard and Model Ordinance it is hoped each participating jurisdiction will adopt these policy documents for implementation to provide consistent administration of Stormwater Management guidelines and policies in the region. Discussions of a Regional Stormwater Authority to administer the adopted guidelines and policies holistically within the region/jurisdictions can be fostered.
 - c) Implementation of new standards began on February 1st, 2021. At this time Staff have been working with several contractors on new requirements. Staff continues to coordinate implementation efforts internally.
 - d) Staff continues to support other municipalities in their efforts to move forward with adoption.
 - e) Amendments to manual and ordinance will be on the Natural Resources Committee November 1st, 2021.
3. Special presentation suggestions –
 - Suggestions for Future Meetings
 - Research performed by Dr. Montie – Spring 2022
 - Cypress Wetlands Project – Spring 2022
 - Woolpert – Jan 2022
 - Beaufort County Legal - TBD
4. Military installation and other State and Federal properties SWU fees – See “Delinquent Accounts” below. Staff continues to work with GIS to update impervious area layers for the military installations.
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.
 - No update at this time.

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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. SWIC committee will be meeting in early November to discuss CWI fees and upcoming cost shared contracts.

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) Flyover bridge preventative maintenance and deferred maintenance repairs – construction complete and pending close out.
 - b) Shell Point Community – Staff actively pursuing BRIC, HMGP, and ARPA grant funding for the design and construction of this project. Task Force met October 25th to update on grant application progress. BRIC grant deadline is November 19. The HMGP Grant preapplication was submitted on October 22 and approved on October 28. The application is open and is due February 2022. Cranston Engineering is in Phase II of their county contract and are preparing cost estimates for work to be done. To be delivered in early November.
3. Factory Creek Watershed Regional Detention Basin “Phase I” & Academy Park Subdivision (Design Cost \$49,873, Tree Mitigation Cost \$18,200 & \$18,200, Construction Cost by the Developer) – Beaufort County Legal handling obtaining easement.

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4. Factory Creek Watershed Regional Detention Basin “Phase II” (Design Cost = \$63,390, Tree Mitigation Cost is pending, Construction Cost by the Developer) – Beaufort County Legal handling obtaining easement.
5. Graves Property / Pepper Hall Public / private partnership – Staff continue to work with engineers and legal. Roads and Infrastructure plan amendments is pending development permit release.
6. Whitehall property purchase – Construction continues on City property.
7. Lady’s Island Plan, Sea Level Rise, and “no-fill” ordinance – Woolpert is developing scope for this study

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) Salt Creek - Beaufort County MS4, OCRM, and SCDOT received. Appraisal complete. Waiting for go ahead from County leadership to proceed with presenting to property owner.
 - b) Shanklin – Waiting for go ahead from County leadership to proceed with presenting to property owner.
 - c) Brewer Memorial – Notice to Proceed to contractor will be issued on November 22
2. Evergreen Regional Pond 319 grant project – (Design=\$89,286, Construction=\$590,000. Grant=\$229,124) – Contractor to continues to work on the pond and working with engineer and county staff. On track to finish by end of contract in January 2022.
3. Stormwater engineering consulting services – Woolpert
 - a) Scope #1 – General Services – Anything relating to Stormwater as a catch all scope. Allocated Funds – \$15,000.00.
 - b) Scope #2 – Southern Lowcountry Design Manual Training – This was completed prior to June of this year. Training set up for in house staff as well as developers in the County. Allocated funds - \$30,000.00.
 - c) Scope #3 – Comprehensive program audit. Reviewing all components of the MS4 program, CIP list, Utility, asset management, etch. Allocated funds - \$105,000.00
 - d) Scope #4 – Tax Run and Utility assistance. In the event the County needed assistance with assessing SW Fees, we have them available on call. We will also look to have them QA/QC data from previous years. Allocated funds - \$29,900.00.

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- e) Scope #5 – Drainage study for Buckwalter and Bluffton Parkways. Based on collaborative conversations with the Town of Bluffton, project not needed. Abandoned Scope 5.
- 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 Ladys Island. Allocated funds - \$10,000.00.
- g) Scope #7 – Northern Lady’s Island Drainage Study – still currently reviewing proposal. Funding requirement - \$150,000.00 - \$300,000.00 based on level of detail wanted.

Scopes on County Radar:

- a) Arthur Horne Park – 319 Grant
- b) Battery Creek 319 Pond – Scope being written
- c) St. Helena Drainage Study
- d) Annual Report to DHEC
- e) Gray Pond – Battery Creek Burton Hill M2 Retrofit

Regional Coordination

- 2. Mossy Oaks Task Force – County working with USCB on water quality monitoring efforts.
- 3. May River Watershed Modeling – No updates at this time.

Municipal Reports

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

MS4 Report

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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 – Implementation of Energov software went live on October 25th.
7. MS4 Statewide General permit – No further update at this time.

Staff Update

1. Department is still actively searching for a Senior Administrative Assistant as well as our vacant infrastructure positions.

USCB Water Quality Lab Update

ACTIVE PROJECTS

Beaufort County

BC Monitoring Plan 2021:

- **Description:** Monitoring plan for 2021 continue from last year to include sampling sites covering all 5 categorical types:
Category 1: TMDL monitoring
Category 2: IDDE screening and monitoring
Category 3: Water quality monitoring (baseline, based upon 303d list)
Category 4: MOA points
Category 5: Special project monitoring
- **Status:** Fourth quarter has begun. Dry sample collection is complete.

Memorandum of Understanding:

- Instead of a MOU, a sole source contract agreement has been approved and fully executed.

Mossy Oaks Drainage Study:

- **Description:** 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.

Pepper Hall Drainage Study:

- **Description:** 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 has begun in January 2021.

Port Royal Redevelopment:

- **Description:** The Town of Port Royal continues with WQ monitoring for the four sites in the proposed redevelopment area. The sampling schedule is quarterly wet events and is included in Beaufort County's Monitoring Plan.
- **Status:** Fourth quarter collection has started.

Town of Bluffton

- **Description:** Monitoring for 2021 continues and includes monitoring for the categories; water quality, 319, MS4, MST, TMDL, and shared locations. A request from Town of Bluffton was made for data analysis of sampling sites dating from 2009 to present.
- **Status:** Monitoring for 2021 continues. USCB is putting together a plan and awaiting data from the Town for the requested data analysis.
- **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.

USCB Laboratory

Additional Projects:

- Palmetto Bluff: Continued sampling efforts of 12x/year for 6 wet/6 dry events. Sampling sites have been revised to include additional sites to monitor the New River. So far this year, 2 wet/ 2 dry events have been collected along with additional parameters requested by Town of Bluffton at specific sampling sites.

Lab Projects:

Port Royal Cypress Wetland

- **Description:** The Town of Port Royal wanted to continue with WQ monitoring at the Cypress as the Town is working on a plan to renovate the wetlands to eliminate invasive as much as possible, re-dredge the open water areas and eliminate as many Tallow trees as possible. Having a current base line of WQ information before any work is performed is critical to assessing the "before and after" conditions in Cypress.
- **Status:** Re-dredging is complete. Cypress wetland project sampling effort was on September 16, 2021 for a wet event and September 29, 2021 for a dry event.
- 2021 Proficiency testing for the Water Pollution and Water Supply study is complete and passed. This consisted 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.
- On February 21, 2020, an investigation of an oyster aquaculture operation on St. Helena Island was performed at the request of the owner. The aquaculture pond's water is largely supplied by Wallace Creek, which is frequently closed to shellfish harvesting.
- Dr. Warren supplied USCB's mathematicians/computational science faculty with SCDHEC water quality data at every shellfish station in Areas 14-20. This is similar to what Dr. Warren did a few years ago, and what Dr. Montie did more recently with examining long-term trends and exceedances of fecal coliform based on harvesting standards.
- New equipment arrived to include Rhodamine sensor for various studies, including pond retention times.

COMPLETED PROJECTS

Beaufort County

Crystal Lake:

- **Description:** Crystal Lake bi-monthly sampling and analysis began in August at three locations; boardwalk, nature trail and drainage into lake.
- **Status:** Project ended at the end of September 2020.

Okatie West Pond:

- **Description:** The University of South Carolina Beaufort's Water Quality Lab collected data on a variety of water quality parameters, including fecal coliform and *E. coli* bacteria, prior to and after detention pond construction. Sampling points allowed for the determination of the pond's bacterial removal efficiency, as well as the extent to which pond effluent was reloaded with bacteria as it was conveyed by ditch to the Okatie River's headwaters. Sampling took place in February 2018, prior to pond construction, and again in February 2019 when pond construction was complete.
- **Status:** Project was completed in February 2019.

Okatie West Pond: Bold and Gold

- **Description:** Environmental Conservation Solutions, LLC, in conjunction with Beaufort County, installed an innovative bacteria and nutrient removing side-bank filter to a section of a newly constructed wet detention pond for the Okatie West Regional Stormwater Project. The purpose of the joint effort is to evaluate the efficiency of the Bold & Gold Side-Bank filter for the possible application in the county to achieve target stormwater treatment in existing and new stormwater BMPs. The pilot project is a 60-foot side bank filter with a 2-foot layer of Bold & Gold® CTS Filtration media as the treatment mechanism, overlaid by a 6-inch well-draining soil that is connected to an underdrain pipe. The filter is located on the south side of the wet detention pond.
- **Status:** Last efforts were completed in March 2020.

USCB Laboratory

- **USCB'S** Water Quality Laboratory will be vacating the North campus Marine Science Building location and will solely be located on South campus at the request of the University.
- **Hilton Head:** GEL Engineering: Discontinued receiving samples for Hilton Head collected by GEL Engineering 4x/ quarter due to using another laboratory .

TOWN COUNCIL



STAFF REPORT

Engineering Department

MEETING DATE:	November 9, 2021
SUBJECT:	Engineering Department Monthly Report
PROJECT MANAGER:	Kim Jones, Interim Director of Engineering

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.
- Materials have been delivered and construction is underway.
- Stormwater pipe installation is slow due to utility conflicts.
- **Next Steps**
 - Complete construction in December 2021.

2. Buck Island-Simmons ville Neighborhood Sidewalks and Lighting

- Boardwalk lighting has been installed and the easement acquisition process for street lighting is underway.
- Phase 6A along Simmons ville Road from Grayco northward to Sugaree Drive: construction began in September.
- 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.
 - Complete construction of Phase 6A sidewalks in December 2021.
 - Phase 6B design and construction of the remaining Simmons ville Road sidewalks to be completed in FY 2022.

3. Bridge Street Streetscape

- Phase 1 construction documents are 90% complete and under permitting review.
- SCDHEC 319 grant application was awarded for \$179,700 for drainage and water quality improvements.
- Easement exhibits, appraisals and just compensation are complete. Easement acquisition is underway.

- **Next Steps**
 - Complete engineering design and permitting in December 2021.
 - Construction is anticipated to start in the last quarter of FY 2022.

- 4. **Boundary Street Streetscape**
 - Surveying and engineering design underway.
 - **Next Steps**
 - Complete draft preliminary engineering design in November 2021.

- 5. **New River Linear Trail**
 - Surveying is 90% complete.
 - **Next Steps**
 - Obtain quote for Phase 1 engineering design.
 - Prepare a conceptual master plan and Phase 1 site development in FY 2022.
 - Research grant opportunities to fund planning and construction of future trail improvements.

SEWER & WATER

1. **Buck Island-Simmons ville Sewer (Phases 5A-5D)**
 - Construction has been halted on Phase 5A-D by BJWSA due to the contractor under-performing their job duties. Contractor is beginning closeout phase for what has been installed to date.
 - Working with the Engineer on new construction documentation to complete the project.
 - **Next Steps**
 - Readvertise for bids to complete construction on Phase 5A-D.
 - Start house connections after the main line is approved by DHEC.

2. **Historic District Sewer Extension Phase 1 - Pritchard Street**
 - Main line construction, gravity connections, and paving are complete.
 - **Next Steps**
 - Finalize grinder pump house connections.

3. **Historic District Sewer Extension Phase 2 - Bridge Street**
 - Received SCDHEC permit to construct.
 - Received Quit Claim Deeds from all the property owners along the ghost road.
 - **Next Steps**
 - Obtain road ownership from SCDOT.
 - Readvertise for bid due to prior bid not receiving submissions.

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

- Started surveying and design.
- **Next Steps**
 - Review design drawings.

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 light installation in conjunction with streetscape design.
 - Obtain easements as needed for Phase 2 street lighting.
 - Begin installation of street lighting in January 2022.

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. No contractors bid the project. Must be re-packaged and re-bid.
- Completed Historic District crosswalk study identifying and prioritizing future intersection/crosswalk improvements to meet ADA compliance.
- Completed Traffic Calming Study and obtained approval for a Traffic Calming Policy from Town Council.
- **Next Steps**
 - AME Church rain garden construction bid closed; no bids were received. Project will be re-advertised.
 - Prepare new solicitation and execute contracts for rain garden construction at the AME Church.
 - Obtain proposal for engineering design services for the first phase of intersection/crosswalk improvements.

3. **Calhoun Street Streetscape**

- Surveying is complete and engineering design underway.
- **Next Steps**
 - Continue with engineering design. Obtain preliminary plan in December and continue planning into 2022.
 - Easement acquisition is planned for FY 2023.
 - Phased construction is planned to begin in FY 2023 pending budget approval.

4. **Squire Pope Carriage House Preservation**

- Construction documents are complete and submitted to SHPO for a courtesy review.

- Stabilization documents are underway.
- **Next Steps**
 - Prepare stabilization bid solicitation package in December 2021.
 - Begin stabilization construction in February 2022.

PARK DEVELOPMENT

1. Oyster Factory Park

- Witmer, Jones and Keefer completed design development drawings in May 2021.
- Engineering Design of eastern parking area is underway.
- Obtained dock permit from USACOE and SCDHEC/OCRM.
- **Next Steps**
 - Complete engineering design for the next phase of master planned improvements in FY 2022.
 - Begin construction of parking area in March 2022.

2. Wright Family Park

- Completed HVAC installation for restrooms in September 2021.
- **Next Steps**
 - Develop palmetto tree reuse design and signage.
 - Installation in Spring of 2022.

3. Oscar Frazier Park

- Installed additional synthetic turf and power pedestals.
- Prepared concept designs and estimating for Splash Pad.
- **Next Step**
 - Complete plans to regrade and resod the Field of Dreams. Bid in December 2022
 - Continue planning of future improvements in FY 2023 and beyond.

4. New Riverside Barn/Park

- Obtained notification that \$500,000.00 grant was approved for partial funding of the initial phase of the project.
- Engineering design of Phase 1 site development is underway.
- Hart Howerton completed schematic design of the restroom and barn additions.
- Construction documents for the restroom building are underway.
- Executed contract with Wood and Partners for preliminary design of playground area and landscape design of Phase 1 development.
- **Next Steps**
 - Complete final architectural plans for Phase 1 restroom building.
 - Complete construction drawings, cost estimating and permitting of Phase 1 site development in the third quarter of FY 2022.
 - Bidding and construction of Phase 1 site development is anticipated to begin in the fourth quarter of FY 2022.

5. May River Road Pocket Park

- Presented conceptual plans at 7/20/21 Town Council Workshop.
- Coordinated with Mayberry Holdings for final design plan.
- Obtained bids to raise stormceptor.
- Obtained updated boundary, tree, topo and as-builts.
- **Next Steps**
 - Finalize plan with Mayberry Holdings.
 - Prepare construction documents.
 - Submit Public Project application.
 - Bid construction landscape improvements.

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.
 - Restroom building is planned to be constructed in FY 2023.

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.

3. Law Enforcement Center Facility Improvements

- Site work substantially complete.
- **Next Steps**
 - Punch list and closeout documents nearing completion.
 - Add covered parking to project per police department request.
 - Information Technology department coordinating upgrades to building security systems.
 - Reflection Garden and gathering space under consideration pending budget availability.

4. Ghost Roads

- Surveying and easement exhibits are complete.
- Bridge Quit Claim Deeds are complete. Pritchard and Colcock Street Quit Claim Deeds are 95% complete.
- Staff is meeting 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 Works Facility Improvements**
- Prepare site plans for expanding of Public Works 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.
7. **Rotary Community Center Facility Improvements**
- Replace the hardwood floor in the main area.
 - **Next Steps**
 - Request quotes for the replacement of the new floor.
8. **Watershed Management Facility Improvements**
- Add flooring in additional offices.
 - **Next Steps**
 - Request quotes on completing the new flooring in remaining offices.

DIVISION/STAFF UPDATES

Project Management

Thirty-eight (38) CIP projects were approved with the FY 2022 budget. Don Ryan Center, Veteran Memorial, Buckwalter Park, BIS Phase 5 sidewalks, BIS Sewer Phase 5E, Wright Family Park, Calhoun Street Dock, Oscar Frazier Sidewalks and numerous building facility improvements were completed in FY 2021. CIP projects including HD Sewer Phase 1 (Pritchard Street), BIS Sewer Phase 5A-D, BIS Phase 6A Sidewalks, Goethe Shults Phase 2 Sidewalks and the LEC Expansion area are currently under construction and scheduled to be complete by December 2021. Boundary Street Lighting, and HD Sewer Phase 2, 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. **Southern Lowcountry Regional Board (SoLoCo) – Regional Southern Lowcountry Post Construction Stormwater Ordinance and Design Manual**

- Adopted by Beaufort County on 2/1/21.
- Adopted by Town Council on 9/14/21.
- **Next Steps**
 - Completed.

2. **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.
- Task Force met 12/15/20 and 12/18/20 to prioritize recommendations for final document with strategies for local governments to implement policies, ordinances and projects to mitigate the potential impacts of sea level rise.
- Task Force met on 6/23/21 to review current versions of both the No Fill Ordinance and the Coastal Resilience Overlay District. Town planning staff provided feedback on the proposed Overlay District.
- Information provided to Town Comprehensive Plan Update consultant team for resiliency component requirement.
- **Next Steps**
 - Beaufort County to present and request a recommendation from SoLoCo for regional partners to adopt.

3. **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 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.
 - **Next Steps**
 - 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.
- 4. 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**
- 5. May River Watershed Action Plan Implementation Summary - Attachment 2**
- 6. Municipal Separate Storm Sewer System (MS4) Program Update**
- Staff is currently updating 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 has requested, along with Beaufort County Government and the Town of Hilton Head, that SCDHEC adjust the MS4 annual report timeline to align with the calendar year.
- 7. MS4 Minimum Control Measure (MCM) - #1 Public Education and Outreach, and MS4 MCM - #2 Public Participation and Involvement**
- Staff delivered a watershed management lecture to the public at the Coastal Discovery Museum on 10/13/21.
 - Staff spoke about the Town’s watershed management efforts to the HHI/Bluffton Chamber of Commerce Leadership Class on 10/13/21.
 - Staff delivered 2 lectures on local ecology and watershed management efforts for the Arts & Seafood Festival on 10/18/21.
 - Staff spoke about the May River Watershed Action Plan with the Bluffton Rotary Club on 10/21/21.
 - Staff delivered two (2) presentations about post-construction BMP maintenance requirements and stormwater pond dredging at the Lowcountry Stormwater Partners 2021 Stormwater Pond Conference on 10/26/21.
 - The May River Watershed Action Plan Advisory Committee is scheduled for 10/28/21. **Attachment 3**
 - Staff developed a video on proper inlet protection practices for the Town’s Sediment and Erosion Control Program.
 - Staff continues to work with the Town Digital Communication Manager to promote

a series of MS4 stormwater educational tips and reminders for the Bluffton community via the Town's Facebook page.

8. **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 on 10/11/21 with no positive human markers detected.
 - Illicit Discharge Investigations – **Attachment 4e**
9. **MS4 MCM – #4 Construction Site Stormwater Runoff Control – Attachment 5**
10. **MS4 MCM – #5 Stormwater Plan Review and Related Activity – Attachment 6**
11. **MS4 MCM – #6 Good Housekeeping (Staff Training/Education)**
 - Jones was elected as the SC state representative to the Southeast Stormwater Association Board of Directors.
 - Staff completed Clemson University's Certified Erosion Prevention and Sediment Control Inspector training.
 - Staff attended the SC Association of Stormwater Managers meeting on 11/4/21.**MS4 MCM – #6 Good Housekeeping (Ditch, Drainage and Roadside Maintenance)**
 - 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.
12. **Citizen Drainage, Maintenance, and Inspections Concerns Map – Attachment 7**
13. **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 Committee Cancellation Notice
4. MS4 Minimum Control Measure #3 – Illicit Discharge Detection and Elimination
 - a. Stormwater Infrastructure Inventory Map
 - b. *E. coli* Concentrations Trend Map
 - c. Microbial Source Tracking Trend Map – Human Source
 - d. Microbial Source Tracking Map – All Sources
 - e. Illicit Discharge Investigations
5. MS4 Minimum Control Measure #4 – Construction Site Stormwater Runoff Control
6. MS4 Minimum Control Measure #5 – Stormwater Plan Review and Related Activity
7. Citizen Drainage, Maintenance and Inspections Concerns Map
8. Citizen Request for Watershed Management Services and Activities Map
9. CIP Project Schedules

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

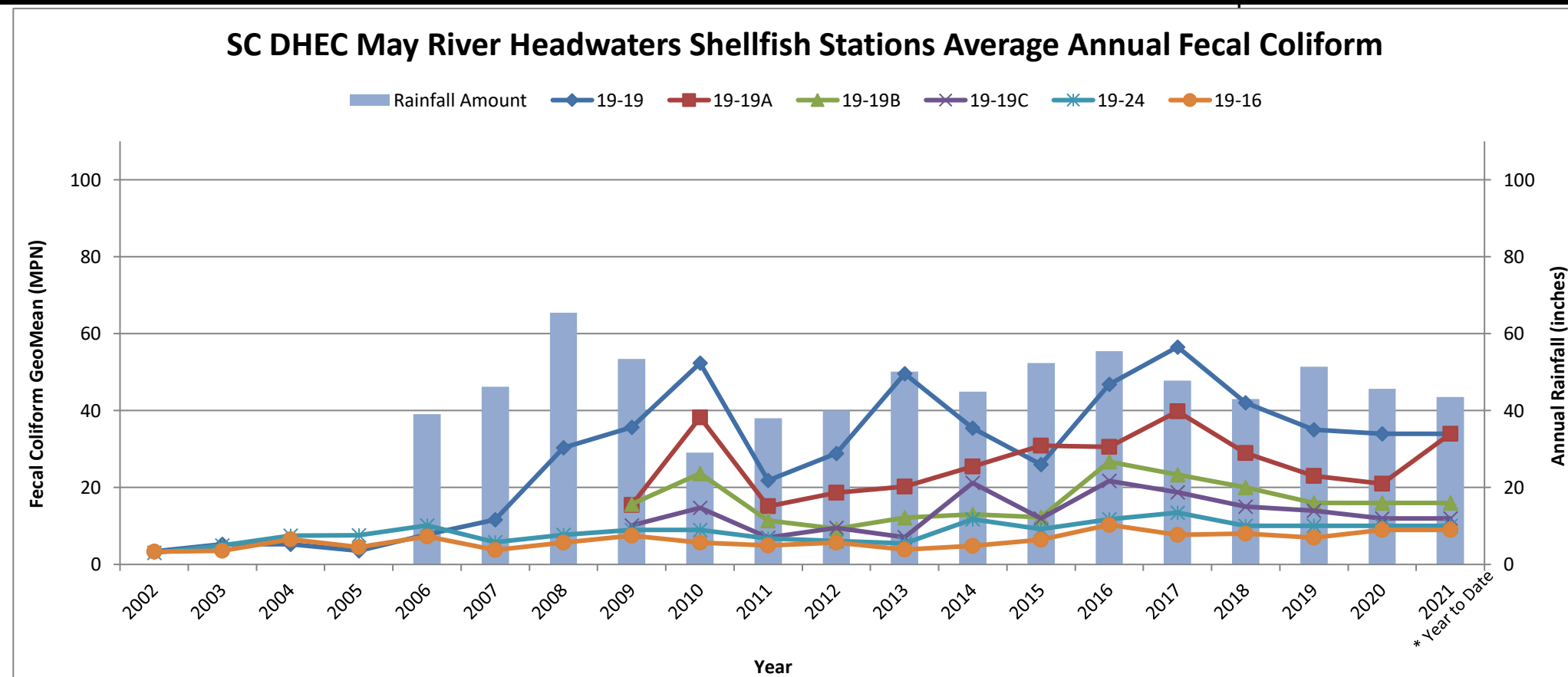
	19-19				19-19A				19-19B				19-19C				19-24				19-16			
	2018	2019	2020	2021	2018	2019	2020	2021	2018	2019	2020	2021	2018	2019	2020	2021	2018	2019	2020	2021	2018	2019	2020	2021
	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	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	79.0	170.0	17.0		49.0	33.0	22.0		33.0	140.0	17.0		46.0	33.0	4.5		23.0	13.0	4.0		21.0	110.0	11.0	
November	49.0	17.0	70.0		13.0	6.8	31.0		23.0	7.8	17.0		17.0	11.0	13.0		17.0	4.5	13.0		7.8	2.0	4.5	
October	79.0	7.8	49.0	49.0	23.0	4.5	79.0	26.0	7.8	2.0	31.0	13.0	7.8	4.5	21.0	23.0	7.8	1.8	33.0	23.0	2.0	2.0	79.0	17.0
September	49.0	79.0	110.0	*	23.0	33.0	49.0	*	13.0	6.8	49.0	*	17.0	17.0	33.0	*	17.0	4.5	33.0	*	17.0	1.8	33.0	*
August	70.0	70.0	49.0	49.0	23.0	49.0	49.0	49.0	13.0	33.0	23.0	23.0	4.5	22.0	23.0	49.0	7.8	7.8	17.0	14.0	17.0	17.0	22.0	14.0
July	23.0	4.5	33.0	350.0	33.0	13.0	13.0	64.0	11.0	7.8	23.0	79.0	7.8	17.0	7.8	33.0	13.0	22.0	7.8	33.0	4.5	13.0	17.0	13.0
June	11.0	33.0	NS	49.0	23.0	49.0	NS	79.0	23.0	49.0	NS	13.0	7.8	46.0	NS	17.0	4.5	13.0	NS	22.0	1.8	4.5	NS	2.0
May	17.0	7.8	70.0	2.0	33.0	9.2	49.0	49.0	17.0	7.8	23.0	23.0	13.0	2.0	22.0	23.0	23.0	6.8	6.8	23.0	13.0	4.5	4.5	7.8
April	33.0	23.0	33.0	33.0	13.0	13.0	33.0	23.0	17.0	7.8	13.0	22.0	17.0	6.8	6.8	17.0	49.0	23.0	13.0	7.8	17.0	6.8	13.0	2.0
March	22.0	23.0	170.0	33.0	21.0	23.0	49.0	11.0	4.5	6.8	130.0	17.0	11.0	13.0	49.0	13.0	7.8	7.8	70.0	2.0	9.3	4.5	33.0	2.0
February	17.0	64.0	17.0	79.0	7.8	33.0	7.8	70.0	17.0	23.0	21.0	79.0	17.0	31.0	4.5	23.0	2.0	6.8	4.5	7.8	7.8	13.0	6.8	6.8
January	13.0	23.0	95.0	17.0	2.0	23.0	33.0	17.0	4.5	13.0	33.0	13.0	2.0	33.0	17.0	23.0	1.8	7.8	17.0	17.0	4.5	23.0	17.0	13.0
Additional Samples																								
Average Annual GeoMean	30.8	26.4	51.4	36.7	17.5	19.0	31.9	35.7	13.1	13.0	27.3	24.1	10.7	14.5	14.0	22.9	9.8	8.0	13.8	13.1	7.9	7.5	15.3	6.4
** Truncated GeoMetric Mean	42.0	35.0	34.0	36.0	29.0	23.0	21.0	26.0	20.0	16.0	16.0	20.0	15.0	14.0	12.0	15.0	10.0	10.0	10.0	11.0	8.0	7.0	9.0	9.0
** Truncated 90th Percentile	176.0	168.0	106.0	143.0	115.0	89.0	59.0	70.0	71.0	63.0	50.0	62.0	56.0	52.0	37.0	41.0	44.0	38.0	31.0	37.0	30.0	32.0	35.0	35.0

NS = No Sample

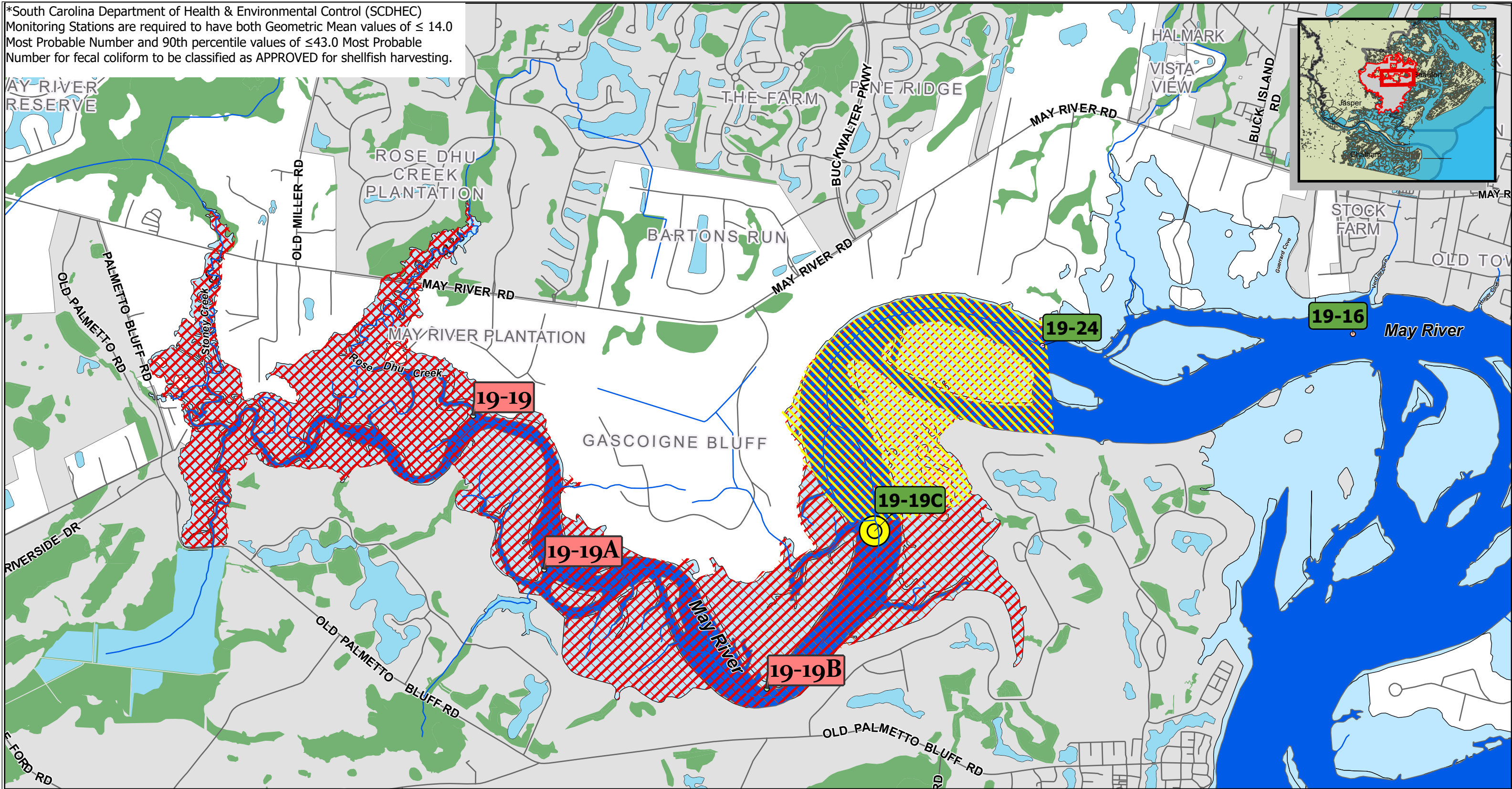
AS = Additional Samples

* SCDHEC fecal coliform data has not been received

** Town staff calculations utilizing DHEC statistics



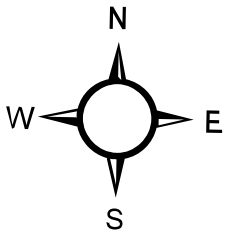
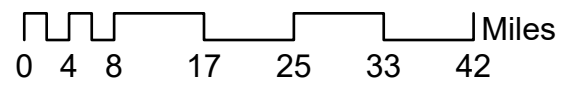
*South Carolina Department of Health & Environmental Control (SCDHEC) Monitoring Stations are required to have both Geometric Mean values of ≤ 14.0 Most Probable Number and 90th percentile values of ≤ 43.0 Most Probable Number for fecal coliform to be classified as APPROVED for shellfish harvesting.



- | | |
|--|---|
| <ul style="list-style-type: none"> Closed SCDHEC Shellfish Monitoring Stations Open SCDHEC Shellfish Monitoring Stations SCDHEC Shellfish Monitoring Station Classification Change Restricted 2021/2022 Shellfish Season | <ul style="list-style-type: none"> Streets Drainage Town Jurisdiction County Jurisdiction Water Wetlands Re-Opened 2021/2022 Shellfish Season |
|--|---|

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>



May River Watershed Action Plan Advisory Committee Meeting

Thursday, October 28, 2021 at 9:00 AM

Council Chambers

AGENDA

- I. **CALL TO ORDER**
- II. **ROLL CALL AND CONFIRMATION OF QUORUM**
- III. **ADOPTION OF THE AGENDA**
- IV. **ADOPTION OF MINUTES**
 1. Adoption of September 23, 2021 Minutes
- V. **PUBLIC COMMENTS**
- VI. **OLD BUSINESS**
 1. Water Quality Monitoring Program (Standing Item) - Beth Lewis, Water Quality Program Administrator
 - a. Monthly Sampling Update
 - b. Microbial Source Tracking (MST) Update
 - c. SCDHEC Shellfish Data Update
- VII. **NEW BUSINESS**
 1. Adoption of Subcommittee(s) - Kim Jones, Interim Director of Engineering
- VIII. **DISCUSSION**
- IX. **ADJOURNMENT**

NEXT MEETING DATE: Proposed 9:00 AM, Thursday, December 2, 2021

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

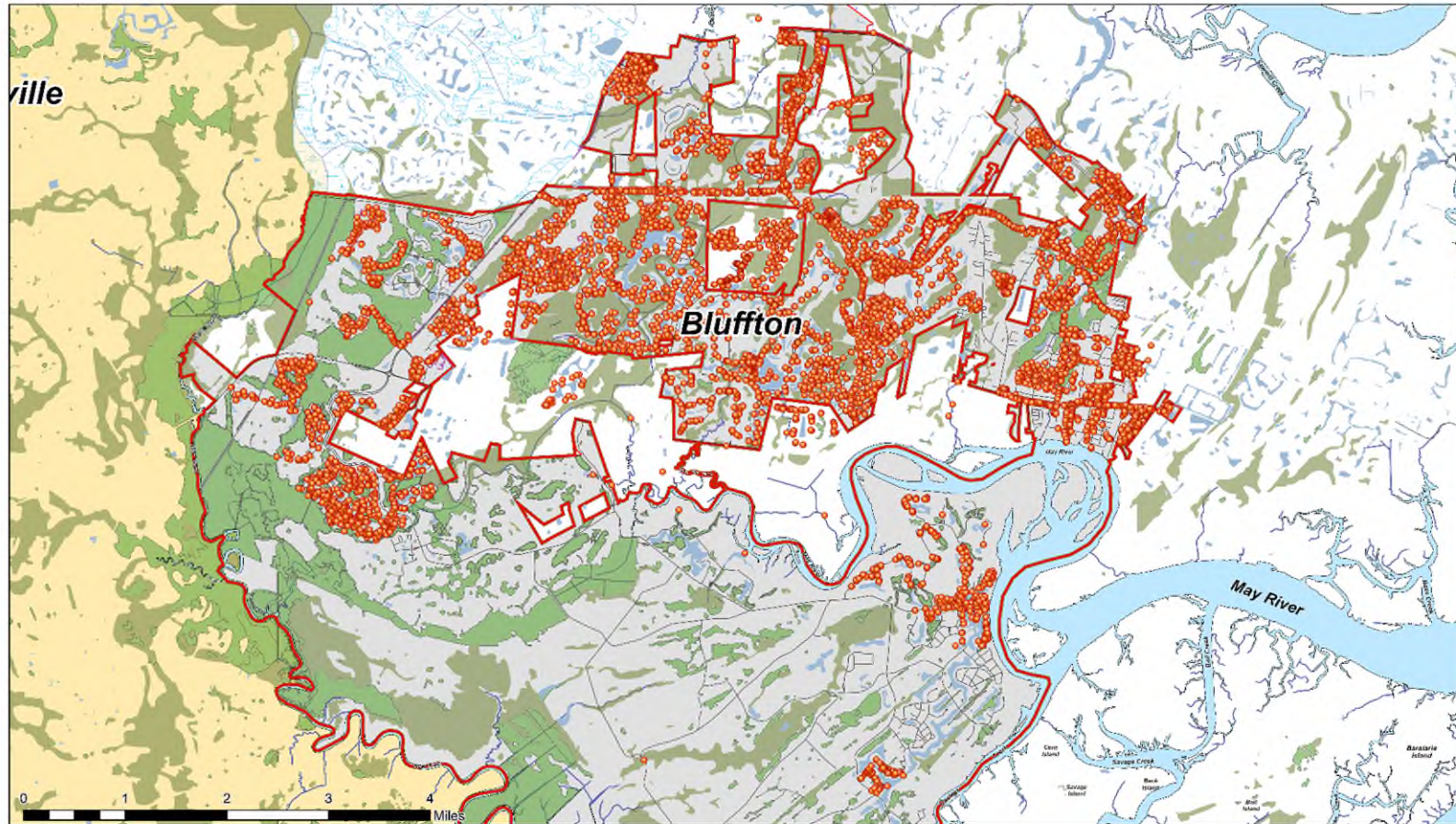
In accordance with the requirements of Title II of the Americans with Disabilities Act of 1990 ("ADA"), the Town of Bluffton will not discriminate against qualified individuals with disabilities on the basis of disability in its services, programs, or activities. The Town of Bluffton Council Chambers are ADA compatible. Any person requiring further accommodation should contact the Town of Bluffton ADA

Town of Bluffton, SC May River Watershed Action Plan Advisory Committee Meeting Agenda October 28, 2021

Coordinator at 843.706.4500 or adacoordinator@townofbluffton.com as soon as possible but no later than 48 hours before the scheduled event.

**Please note that each member of the public may speak at one public comment session and a form must be filled out and given to the Town Clerk. Public comment must not exceed three (3) minutes.*

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



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

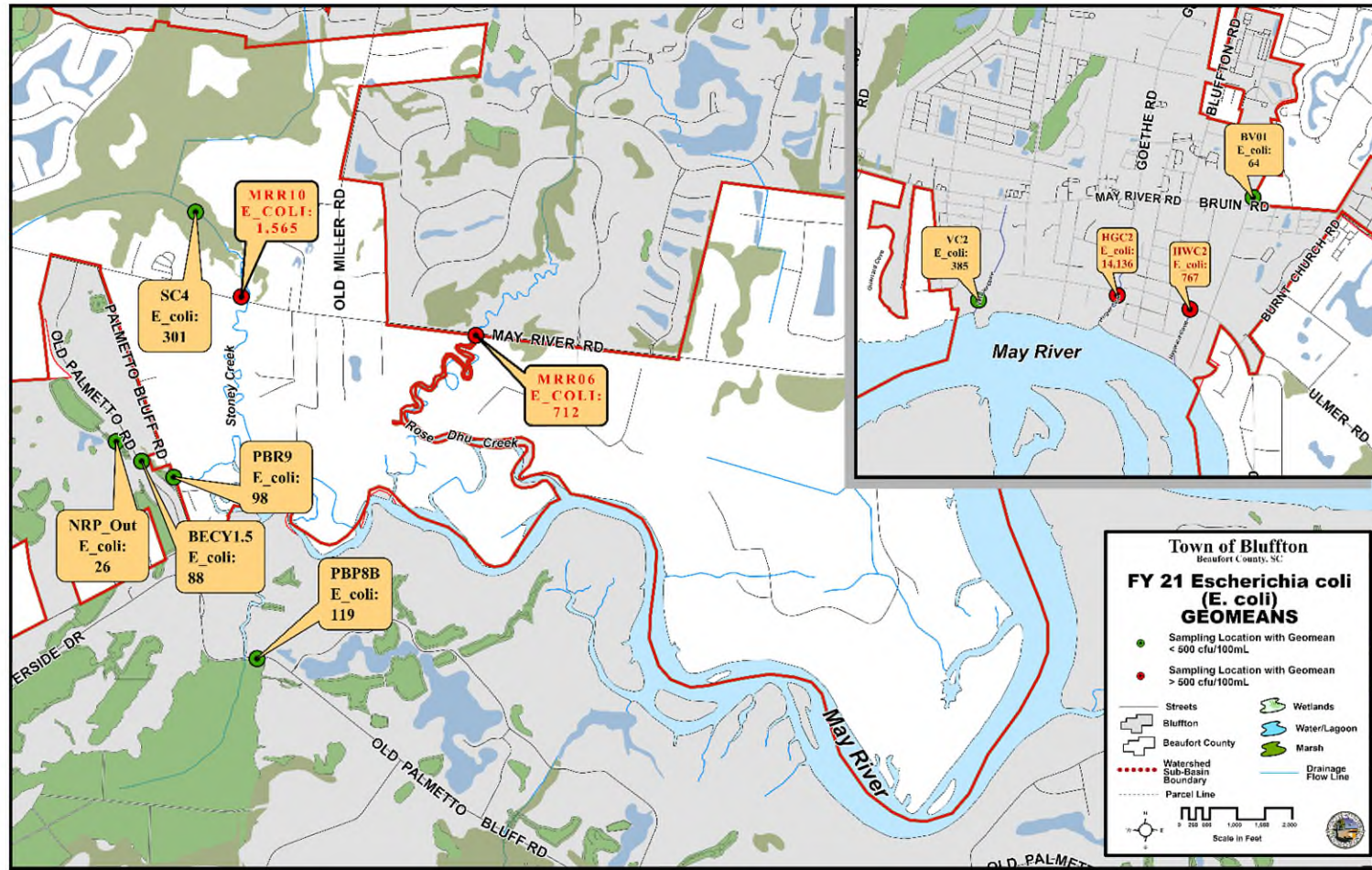
Town of Bluffton
Beaufort County, SC

STORMWATER INFRASTRUCTURE

Updated Date: 10/19/2021

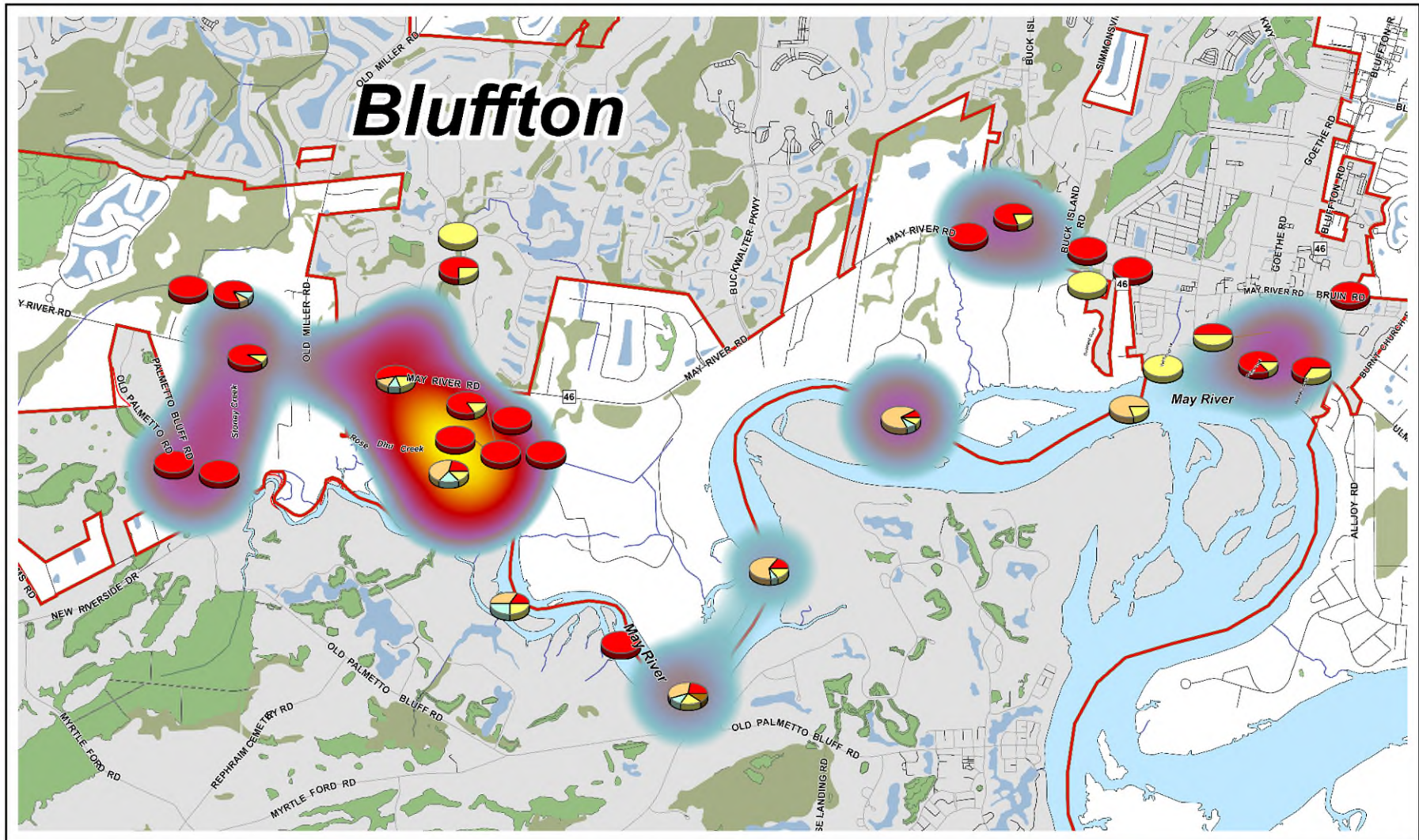
Stormwater Infrastructure Inventory Collection Status	
FY 2022 YTD Collection Totals	812
FY 2021 Collection Totals	2,222
FY 2020 Collection Totals	4,878
FY 2019 Collection Totals	2,925

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	88	15	41
FY 2021 Totals	380	115	179
FY 2020 Totals	223	115	123
FY 2019 Totals	280	193	264

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



MST Sampling Results MST Sampling Sites



Intensity of samples
 Representative of Low Sampling Distribution (Blue)
 Representative of High Sampling Distribution (Red)

MICROBIAL SOURCE TRACKING (MST) LOCATIONS

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

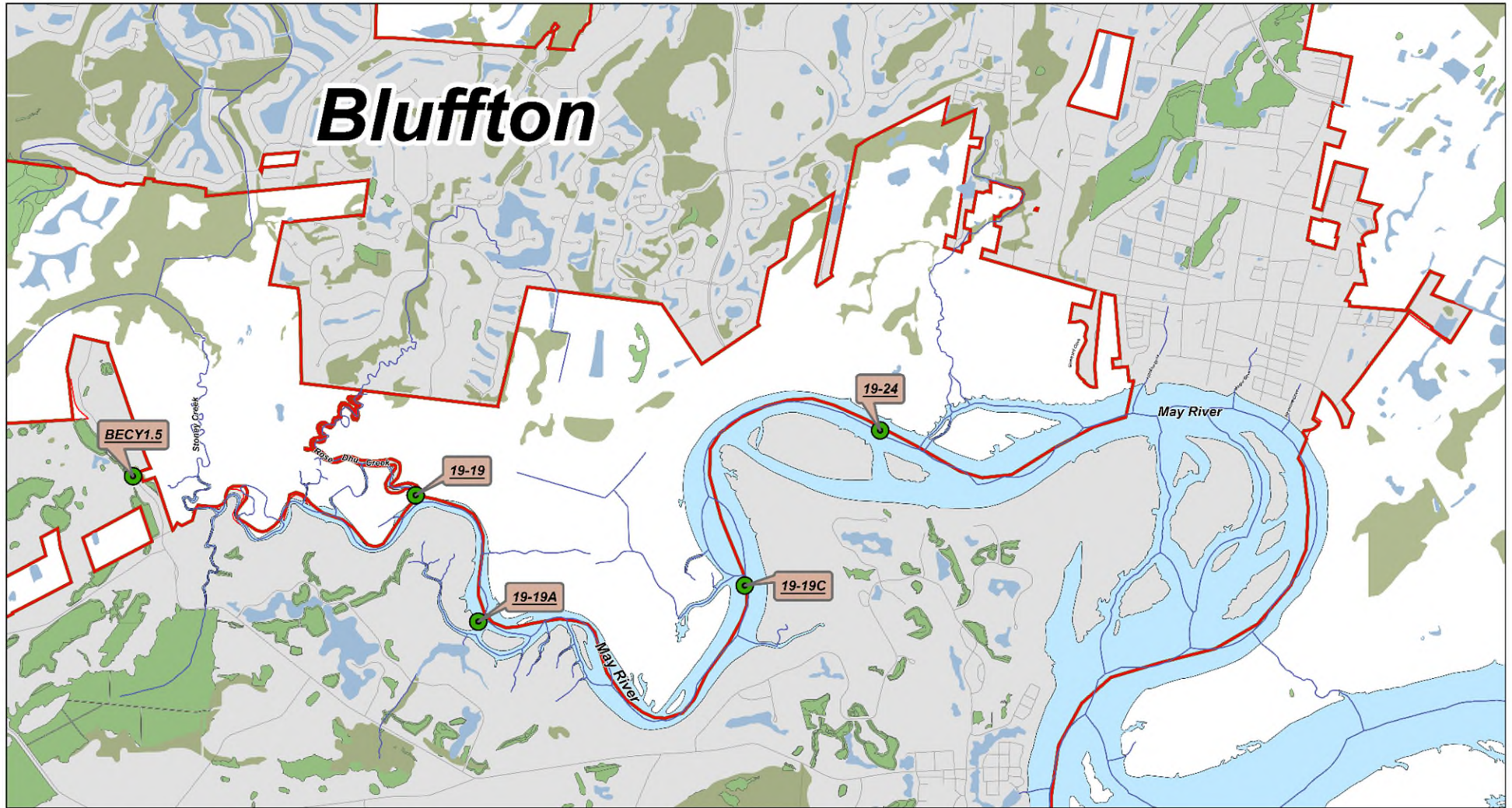
- Town Jurisdiction (Red outline)
- Beaufort County (Black outline)
- Drainage Flow Lines (Blue line)



Town of Bluffton
Beaufort County, SC

Updated Date: 10/19/2021

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

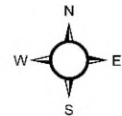


- MST Sampling Location Without Detection
- MST Sampling Location With Detection
- Flowline
- Street
- ☐ Town Jurisdiction ☐ County Jurisdiction

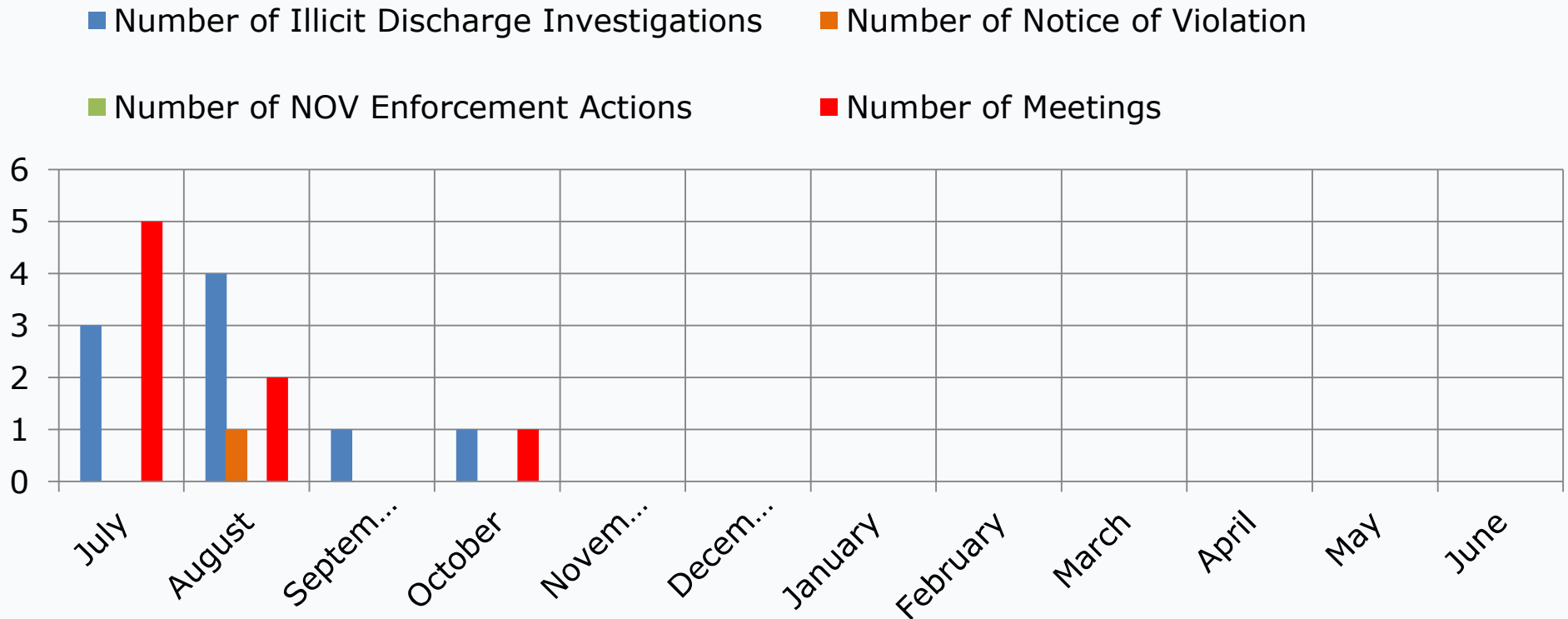
MICROBIAL SOURCE TRACKING LOCATIONS

Sampling Results July 2021

Town of Bluffton
Beaufort County, SC

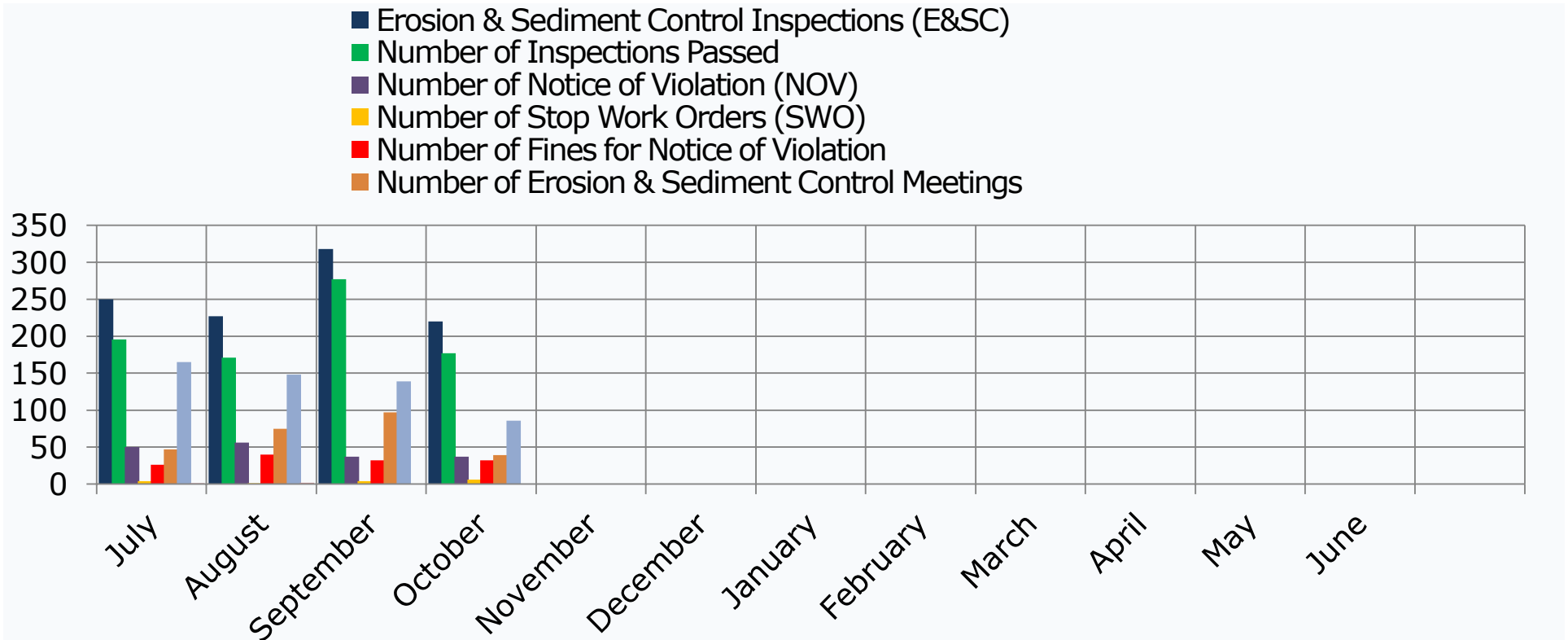


MS4 Minimum Control Measure #3 – IDDE: Illicit Discharge Investigations



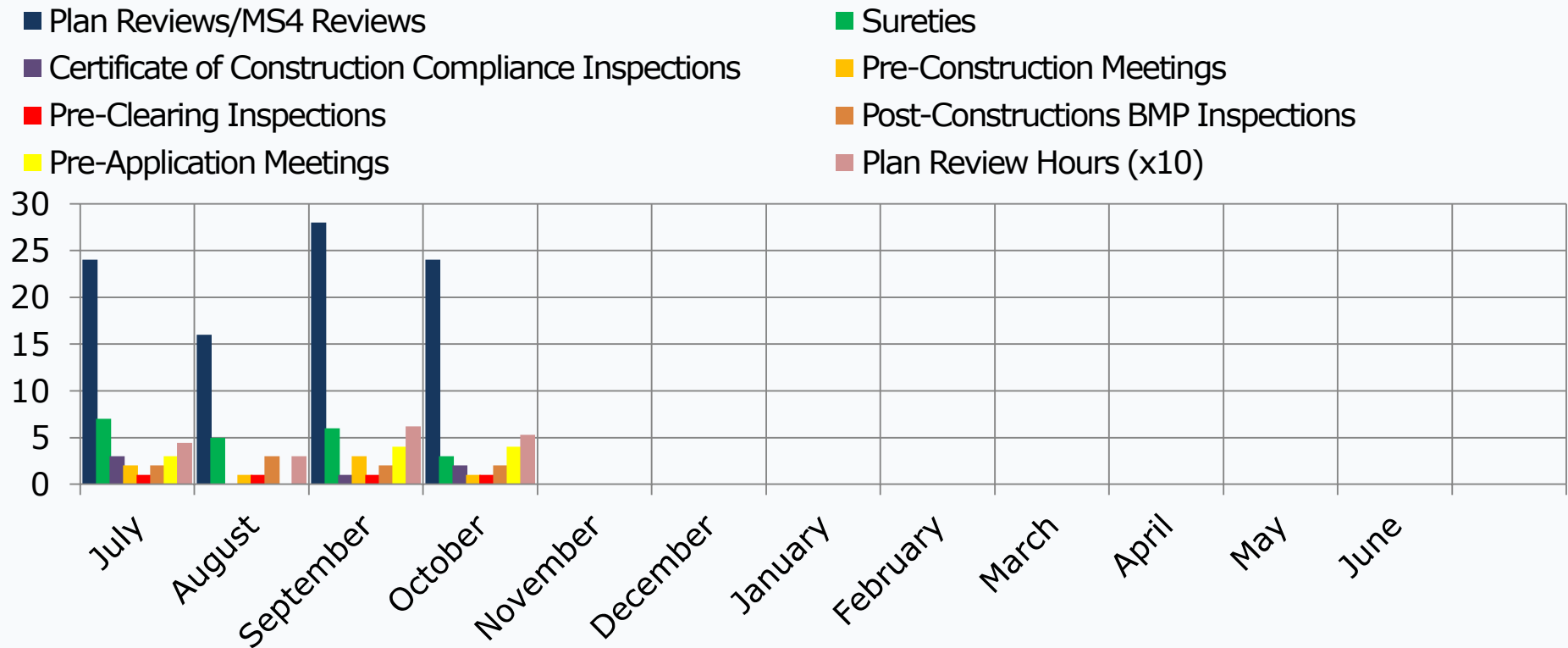
	Number of Illicit Discharge Investigations	Number of Notices of Violation Issued	Number of NOV Enforcement Actions	Number of Meetings
FY 2022 YTD Totals	9	1	0	8
FY 2021 Totals	36	11	1	29
FY 2020 Totals	45	8	6	49
FY 2019 Totals	38	3	1	61

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



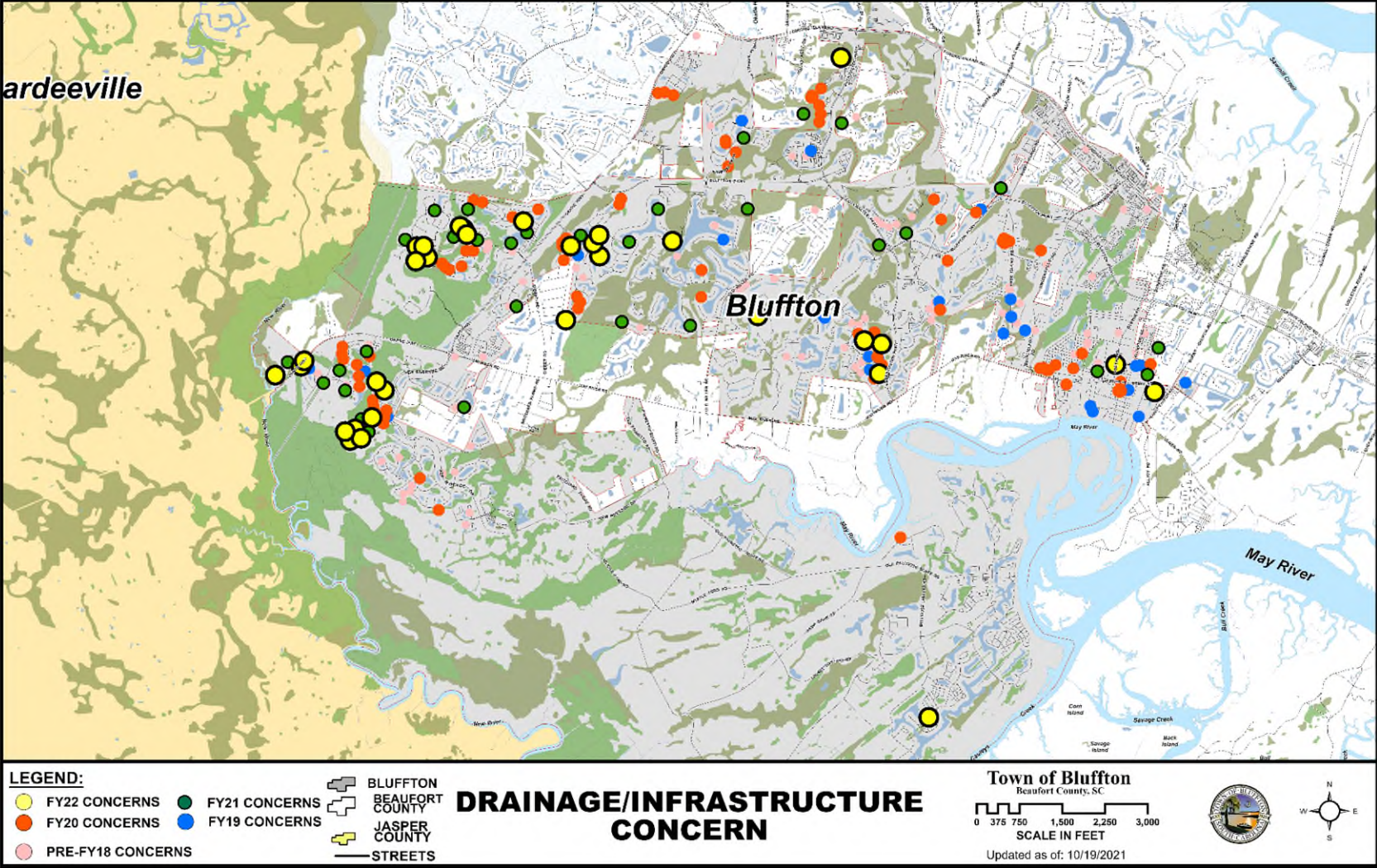
	Number of Sediment & Erosion Control Inspections	Number of Inspections Passed	Number of NOVs Issued	Number of SWO Issued	Number of NOV Enforcement Actions	Number of E&SC Meetings
FY 2022 YTD Totals	1,015	821	180	15	130	258
FY 2021 Totals	1,805	1,527	267	32	36	413
FY 2020 Totals	1,517	1187	185	16	9	496

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



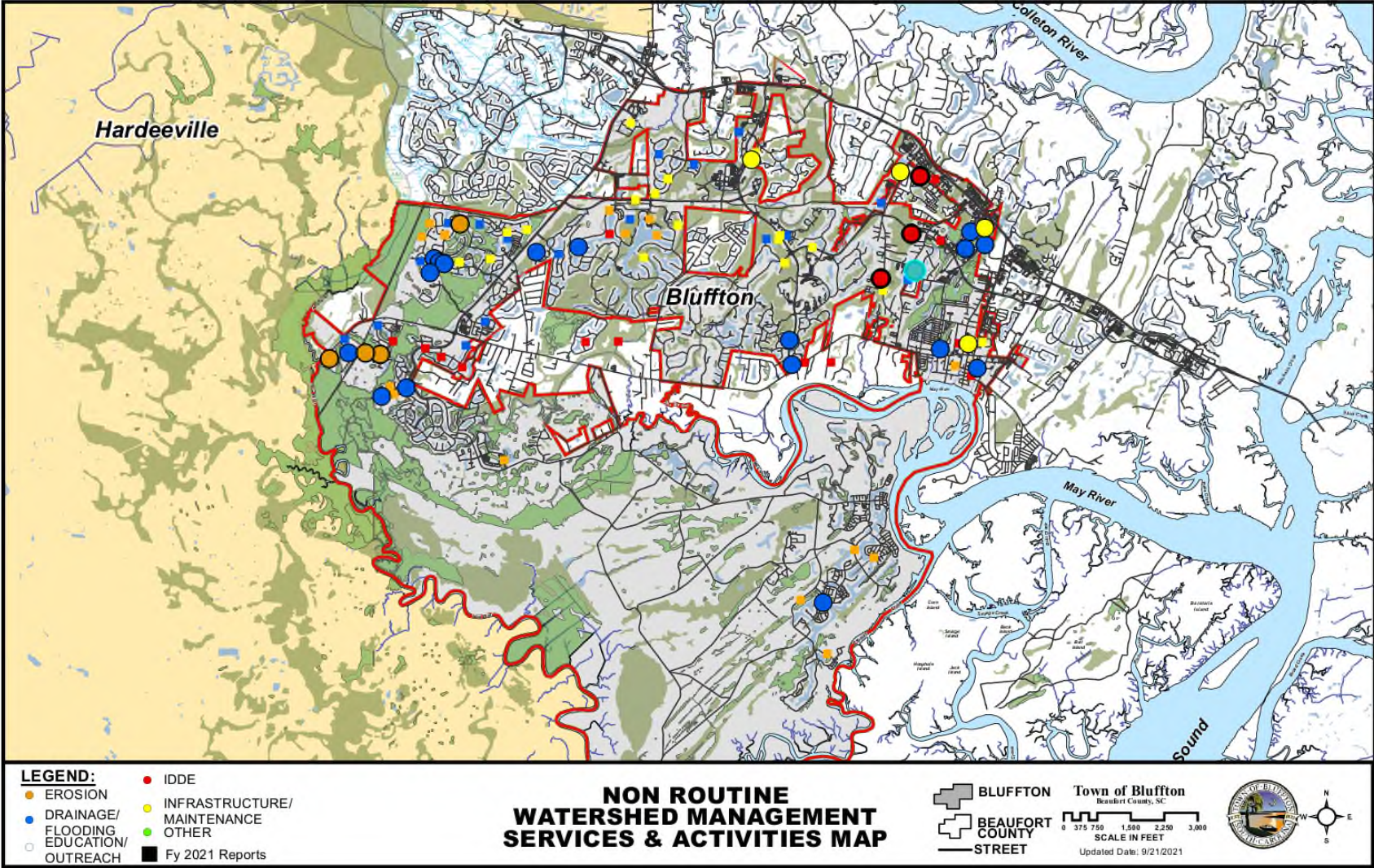
	Plan Reviews MS4 Reviews	Sureties	Certificate of Construction Compliance Inspections	Pre- Construction Meetings	Pre-Clearing Inspections	Post Construction BMP Inspections	Pre-Application Meetings	Total Plan Review Hours
FY 2022 YTD Totals	92	21	6	7	4	9	11	189 Hrs.
FY 2021 Totals	186	61	55	24	24	22	41	789 Hrs.
FY 2020 Totals	176	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	18	18
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	18	18
FY 2021 Totals	46	36
FY 2020 Totals	99	102

**BOUNDARY STREET LIGHTING
PROPOSED SCHEDULE**

ID	Task Name	Duration	Start	Finish	2020												2021												2022								
					Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	
1	BOUNDARY STREET LIGHTING PHASE 2	649 days	Mon 7/8/19	Thu 12/30/21	◆																																
2	Planning and Conceptual Design	445 days	Mon 7/8/19	Fri 3/19/21	◆																																
13	Permitting	90 days	Mon 1/20/20	Fri 5/22/20	◆																																
15	Easements and Land Acquisition	114 days	Tue 6/1/21	Fri 11/5/21	◆																																
18	Construction	84 days	Mon 9/6/21	Thu 12/30/21	◆																																

Project: 00069	Milestone ◆	Project Duration ◆	Permitting ◆	Construction ◆
Date: Mon 9/27/21	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
1	PHASE 3	404 days	Mon 11/2/20	Thu 5/19/22																				
2	Planning and Conceptual Design	136 days	Mon 11/2/20	Mon 5/10/21																				
9	Final Design and Construction Documents	90 days	Tue 5/11/21	Mon 9/13/21																				
11	Permitting	40 days	Tue 9/14/21	Mon 11/8/21																				
14	Easements and Land Acquisition	105 days	Tue 5/4/21	Mon 9/27/21																				
17	Bidding and Contracts	46 days	Tue 11/9/21	Tue 1/11/22																				
22	Construction	92 days	Wed 1/12/22	Thu 5/19/22																				

Project: 00072
Date: Fri 6/25/21

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																							
					Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun			
1	PHASE 4	424 days	Mon 11/2/20	Thu 6/16/22																								
2	Planning and Conceptual Design	156 days	Mon 11/2/20	Mon 6/7/21																								
9	Final Design and Construction Documents	90 days	Tue 6/8/21	Mon 10/11/21																								
11	Permitting	40 days	Tue 10/12/21	Mon 12/6/21																								
14	Easements and Land Acquisition	105 days	Tue 6/1/21	Mon 10/25/21																								
17	Bidding and Contracts	46 days	Tue 12/7/21	Tue 2/8/22																								
22	Construction	92 days	Wed 2/9/22	Thu 6/16/22																								

Project: 00073 Date: Fri 6/25/21	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 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		
1	PHASE 5	434 days	Mon 11/2/20	Thu 6/30/22																								
2	Planning and Conceptual Design	156 days	Mon 11/2/20	Mon 6/7/21																								
9	Final Design and Construction Documents	100 days	Tue 6/8/21	Mon 10/25/21																								
11	Permitting	40 days	Tue 10/26/21	Mon 12/20/21																								
14	Easements and Land Acquisition	105 days	Tue 6/1/21	Mon 10/25/21																								
17	Bidding and Contracts	46 days	Tue 12/21/21	Tue 2/22/22																								
22	Construction	92 days	Wed 2/23/22	Thu 6/30/22																								

Project: 00074 Date: Mon 9/27/21	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

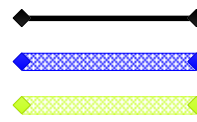
ID	Task Name	Duration	Start	Finish	2021												2022											
					Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul		
1	PHASE 6	434 days	Mon 11/2/20	Thu 6/30/22																								
2	Planning and Conceptual Design	156 days	Mon 11/2/20	Mon 6/7/21																								
9	Final Design and Construction Documents	100 days	Tue 6/8/21	Mon 10/25/21																								
11	Permitting	40 days	Tue 10/26/21	Mon 12/20/21																								
14	Easements and Land Acquisition	105 days	Tue 6/1/21	Mon 10/25/21																								
17	Bidding and Contracts	46 days	Tue 12/21/21	Tue 2/22/22																								
22	Construction	92 days	Wed 2/23/22	Thu 6/30/22																								

Project: 00075
Date: Mon 9/27/21

Milestone
Critical Task
Task



Project Duration
Planing and Conceptual Design
Final Design and Construction Documents



Permitting
Easements and Land Acquisitions
Bidding and Contracts



Construction



BRIDGE STREET STREETScape
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	
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: 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			

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	◆—————◆		

NEW RIVERSIDE PARK/BARN SITE
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2020												2021												2022											
					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	
1	NEW RIVERSIDE PARK/BARN SITE	732 days	Mon 7/1/19	Tue 4/19/22	◆																																			
2	Planning and Conceptual Master Plan	377 days	Mon 7/1/19	Tue 12/8/20	◆																																			
27	Final Design (Phase 1)	240 days	Mon 12/14/20	Fri 11/12/21	◆																																			
37	Permitting (Phase 1)	70 days	Mon 8/23/21	Fri 11/26/21	◆																																			
41	Bidding (Phase 1)	92 days	Mon 11/29/21	Tue 4/5/22	◆																																			
47	Construction Start	1 day	Tue 4/19/22	Tue 4/19/22	★																																			

Project: 00085 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	◆		

BOUNDARY STREET STREETScape
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Septem B M E	October B M E	Novem B M E	Decemt B M E	January B M E	Februa B M E	March B M E	April B M E	May B M E	June B M E	July B M E	August B M E	Septem B M E	October B M E	Novem B M E	Decemt B M E	January B M E	Februa B M E	March B M E	April B M E	May B M E	June B M E	July B M E	August B M E	Septem B M E	October B M E						
1	BOUNDARY STREET STREETScape	536 days	Mon 9/7/20	Mon 9/26/22	◆																															
2	Planning and Conceptual Design	178 days	Mon 9/7/20	Wed 5/12/21	◆																															
13	Final Planning and Construction Documents	188 days	Wed 2/17/21	Fri 11/5/21	◆																															
27	Permitting Phase	55 days	Mon 8/9/21	Fri 10/22/21	◆																															
32	Easements and Land Acquisition	296 days	Mon 8/9/21	Mon 9/26/22	◆																															
41	Construction																																			

Project: 00094
Date: Wed 1/27/21

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

CALHOUN STREET STREETScape
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Month																																		
				May	June	July	August	Septem	October	Novemb	Decemb	January	Februar	March	April	May	June	July	August	Septem	October	Novemb	Decemb	January	Februar	March	April	May	June	July	August	Septem	October	Novemb	Decemb	January	Februar	March
1	CALHOUN STREET STREETScape	796 days	Mon 5/18/20	◆																																		
2	Planning and Conceptual Design	80 days	Mon 5/18/20	◆																																		
7	Final Planning and Construction Documents	535 days	Mon 9/7/20	◆																																		
28	Permitting Phase (Phase 1)	75 days	Mon 6/13/22	◆																																		
33	Easements and Land Acquisition (Phase 1)	261 days	Mon 6/6/22	◆																																		

Project: 00042 Date: Mon 9/27/21	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	◆	Construction

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

ID	Task Name	Duration	Start	Finish	Q4, 2016	Qtr 1, 2017	Qtr 2, 2017	Qtr 3, 2017	Qtr 4, 2017	Qtr 1, 2018	Qtr 2, 2018	Qtr 3, 2018	Qtr 4, 2018	Qtr 1, 2019	Qtr 2, 2019	Qtr 3, 2019	Qtr 4, 2019	Qtr 1, 2020	Qtr 2, 2020	Qtr 3, 2020	Qtr 4, 2020	Qtr 1, 2021	Qtr 2, 2021	Qtr 3, 2021	Qtr 4, 2021	Qtr 1, 2022	Qtr 2, 2022	Qtr 3, 2022	Qtr 4, 2022							
					Nov/Dec	Jan/Feb	Mar/Apr	May/June	July/Aug	Sep/Oct	Nov/Dec	Jan/Feb	Mar/Apr	May/June	July/Aug	Sep/Oct	Nov/Dec	Jan/Feb	Mar/Apr	May/June	July/Aug	Sep/Oct	Nov/Dec	Jan/Feb	Mar/Apr	May/June	July/Aug	Sep/Oct	Nov/Dec	Jan/Feb	Mar/Apr	May/June	July/Aug	Sep/Oct	Nov/Dec	
1	PHASE 5 A-D	1495 days?	Thu 12/1/16	Wed 8/24/22	◆																															
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	503 days	Mon 9/21/20	Wed 8/24/22	◆																															
40																																				
41																																				

Project: 00044	Milestone	◆	Task	█	Planning and Conceptual Design	◆	Permitting	█	Easements and Land Acquisitions	◆	Bidding and Contract	█	Construction	◆	Final Design and Construction Documents
Date: Mon 9/27/21	Critical Task	★	Project Duration	◆		◆		◆		◆		◆		◆	

HISTORIC DISTRICT STREETScape AND DRAINAGE IMPROVEMENTS PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	
1	Traffic Calming Study and AME Church Rain Garden	262 days	Mon 11/16/20	Tue 11/16/21	
10	Permitting	10 days	Mon 5/24/21	Fri 6/4/21	
12	Easements and Land Acquisition	10 days	Thu 4/15/21	Wed 4/28/21	
7	Final Design and Construction Documents	133 days	Mon 12/28/20	Wed 6/30/21	
15	Bidding and Contracts	39 days	Thu 7/1/21	Tue 8/24/21	
2	Planning and Conceptual Design	163 days	Mon 11/16/20	Wed 6/30/21	
20	Construction	60 days	Wed 8/25/21	Tue 11/16/21	

Project: 00050 Date: Fri 6/25/21	Milestone	◆	Project Duration	◆————◆	Permitting		Construction	
	Critical Task	★	Planing and Conceptual Design		Easements and Land Acquisitions			
	Task		Final Design and Construction Documents		Bidding and Contracts			

**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			

WHARF STREET LIGHTING
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Predecessor	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	
1	WARF STREET LIGHTING	453 days	Mon 7/5/21		◆																							
2	Planning and Conceptual Design	360 days	Mon 7/5/21		◆																							
12	Permitting	90 days	Mon 11/22/21		◆																							
14	Easements and Land Acquisition	160 days	Fri 7/1/22		◆																							
17	Construction	192 days	Tue 7/5/22		◆																							

Project: 00068 Date: Mon 9/27/21	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
	Critical Task	★	Planning and Conceptual Design	◆	Easements and Land Acquisition	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contract	◆		

OSCAR FRAZIER PARK
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Timeline																											
					August	September	October	November	December	January	February	March																				
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 00066 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	◆		

**BUCKWALTER PLACE PARKING IMPROVEMENTS
PROPOSED SCHEDULE**

ID	Task Name	Duration	Start	Finish	July 6/27	8/8	October 9/19	10/31	January 12/12	1/23	3/6	April 4/17	5/29	July
0	00098 Buckwalter Place Parking Improvements	224 days	Sun 8/1/21	Thu 6/9/22										
1	Planning & Conceptual Design	81 days	Sun 8/1/21	Mon 11/22/21										
5	Final Design & Construction Documents	45 days	Tue 10/5/21	Mon 12/6/21										
8	Permitting	75 days	Tue 10/5/21	Mon 1/17/22										
11	Easements & Land Acquisition	21 days	Tue 10/5/21	Tue 11/2/21										
13	Bidding & Contracts	32 days	Tue 1/18/22	Wed 3/2/22										
18	Construction	71 days	Thu 3/3/22	Thu 6/9/22										

Project: 00098
Date: Thu 10/21/21

Milestone
Critical Task
Task



Project Duration
Planning and Conceptual Design
Final Design and Construction Documents



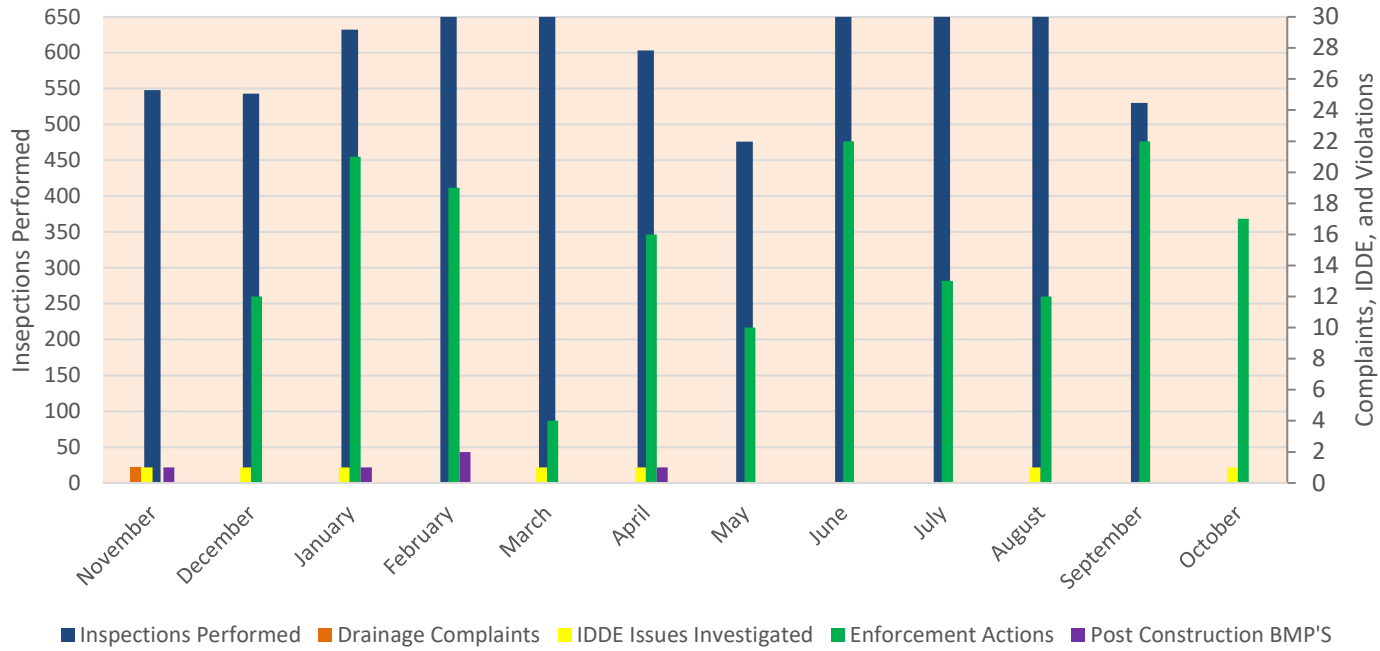
Permitting
Easements and Land Acquisition
Bidding and Contracts



Construction

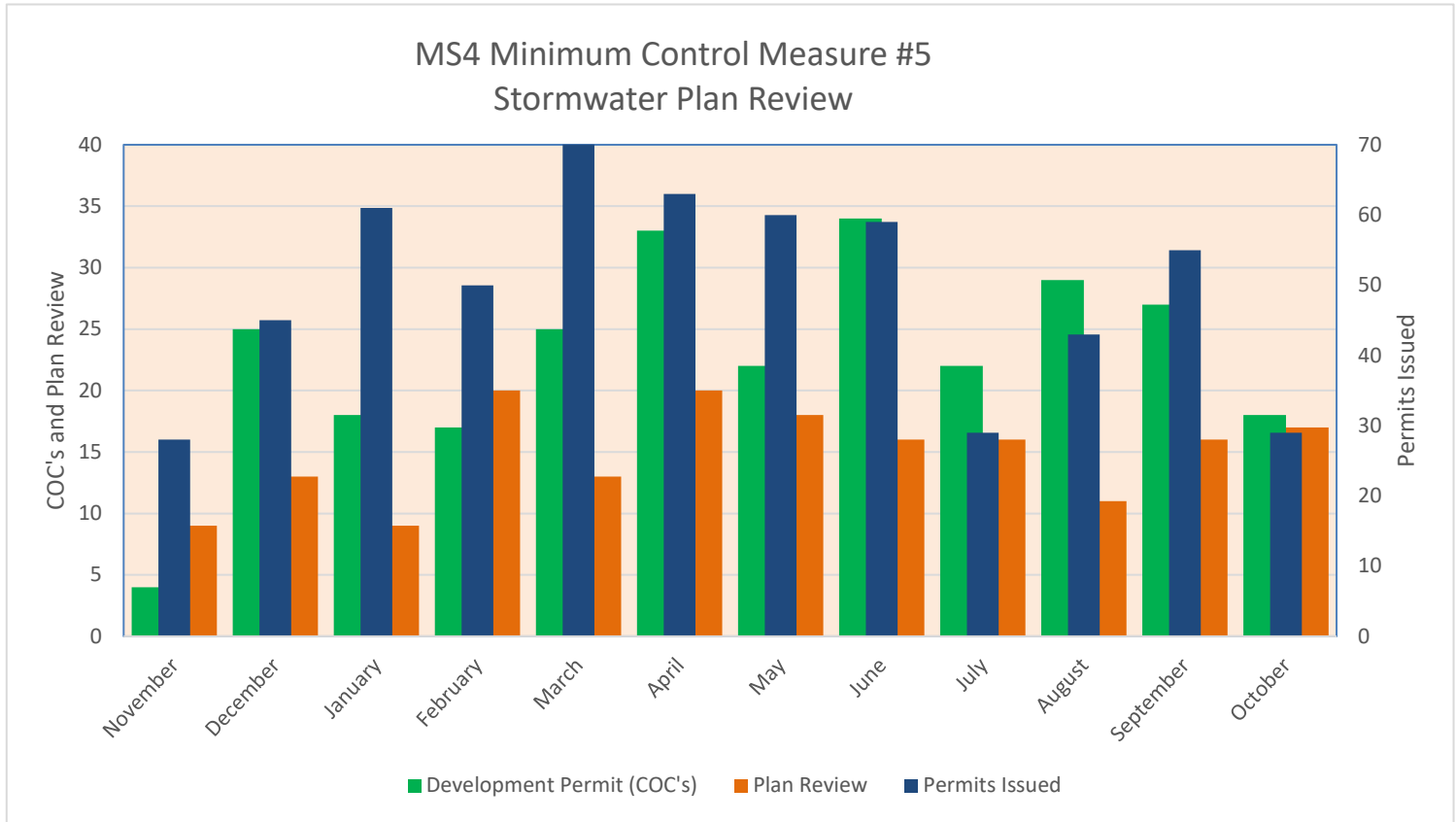


MS4 Minimum Control Measure #4 Erosion Sediment Control Inspections



TYPE	November	December	January	February	March	April	May	June	July	August	September	October	Last 12 Months
Inspections Performed	548	543	632	724	794	603	476	743	662	654	530	323*	6909
Drainage Complaints	1	0	0	0	0	0	0	0	0	0	0	0	1
IDDE Issues Investigated	1	1	1	0	1	1	0	0	0	1	0	1	7
Enforcement Actions	0	12	21	19	4	16	10	22	13	12	22	17	168
Post Construction BMP'S	1	0	1	2	0	1	0	0	0	0	0	0	9

*Transition to Energov software, inspection count ended on October 20th



TYPE	November	December	January	February	March	April	May	June	July	August	September	October	Last 12 Months
Development Permit (COC's)	4	25	18	17	25	33	22	34	22	29	27	18	274
Plan Review	9	13	9	20	13	20	18	16	16	11	16	17	178
Permits Issued	28	45	61	50	75	63	60	59	29	43	55	29	597

Lowcountry Stormwater Partners (LSP) Monthly Report
10/01/21 – 11/013/21

Completed Stormwater Outreach/Involvement Activities:

- Shrimp Fest
 - Will provide enviroscape demonstration, educational handouts, and LSP merchandise
 - 10/02/21, in person, 100+
- Site Visit to Address Residential Drainage Concerns
 - 10/05/21, in person, 2
- Enviroscape Demonstration at Frogmore 5K
 - 10/09/21, in person, 9
- LSP Changing Tides Newsletter
 - The Changing Tides is an informative publication for the general public. It includes a small article on a stormwater-related topic and information on past, current, and future events.
 - 10/13/21, online, 137
- Native Plant Display at the SC State Fair
 - 10/15-16/21, in person, still calculating total
- Kids in Kayaks
 - 10/14/21, in person, 30
- 2021 Beaufort Area Stormwater Pond Conference
 - 10/26-28/21, hybrid, 31
- Adopt-A-Stream Testing
 - 10/29/21, in person, 1
- Mossy Oaks Rain Garden Workshop
 - 11/3/21, hybrid (webinar portion), 6
- LSP Changing Tides Newsletter
 - The Changing Tides is an informative publication for the general public. It includes a small article on a stormwater-related topic and information on past, current, and future events.
 - 11/3/21, online, 137

Ongoing Stormwater Outreach/Involvement Activities:

- Rain Barrel Sale
 - Ongoing, 17 already sold, 16 left, [website](#)
- Septic System Resources
 - The sub-committee drafted four factsheets which are currently undergoing the peer-review process.
- LSP Facebook page
 - The LSP Facebook page serves to engage and involve citizens in water-quantity and water-quality information. I also use the Facebook page to announce local, regional, and state-wide events.
 - 307 Likes

Planned Stormwater Outreach/Involvement Activities:

- Presenting at Savannah Valley Extension District Meeting
 - 11/4/21
- Mossy Oaks Rain Garden Workshop
 - 11/6/21, hybrid
- Be Septic Safe Webinar
 - 11/11/21, online
- Pond Tour

- 11/18/21
- Septic media campaign
 - November, social media, will coincide with additional septic webinar (date TBD)
- LSP Changing Tides Newsletter
 - The Changing Tides is an informative publication for the general public. It includes a small article on a stormwater-related topic and information on past, current, and future events.
 - 12/01/21, online
- Buffer Webinar
 - 12/9/21, online
- Construction Site Social Media Campaign
 - December

Other Activities for Strategic Plan Compliance:

- Pet Waste Station Map
- Small grants program
- Soil sample post cards and placards for retailers
- Soil sample bag distribution
- Promotional seed packet
- Native plant distributor list
- Native plant signage
- LID Lunch-and-Learns
- BMP workshop for homeowners
- BMP survey

Completed Strategic Plan Items:

- Pond Workshop
- Pond training listserv and direct mailer list
- Pet waste mass media campaign
- 2019 Beaufort Area Stormwater Pond Conference
- Master Pond Manager
- Pond mass media campaign
- Pond management website
- Soil sample trainings (satisfied by Cultivating a Carolina Yards workshops)
- Soil sample bags at festivals, nurseries, farmer's markets, and Master Gardener events
- Construction site trainings for contractors (satisfied by CEPSCI courses)
- LID factsheets
- LID training for design professionals (will be satisfied when DNR's Coastal Training Program reschedules to LID Manual Training)
- LID signs
- BMP workshops for homeowners (satisfied by Cultivating a Carolina Yards workshops, rain garden presentations, and Being a Neighbor for Clean Water Webinar Series)
- Master Rain Gardener
- Step-stake sign for rain gardens
- Rain Garden Rack Card
- Pond Rack Card
- Buffer Packets
- Contractor trainings



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

August 11th, 2021 at 2:00 p.m.

Beaufort County Council Chambers, Administration Building, Beaufort County Government
Robert Smalls Complex, 100 Ribaut Road, Beaufort, South Carolina and via Webex

Board Members

Present

James Clark
Marc Feinberg
Patrick Mitchell
Steven Andrews
Brian Watkins

Absent

Allyn Schneider

Ex-Officio Members

Present

Nate Farrow

Absent

Van Willis
Kim Jones

Beaufort County Staff

Katie Herrera
Julianna Corbin

Visitors

Brian Eber, Town of Hilton Head
Dr. Alan Ward

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

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

2. Introductions – Completed.

3. Public Comment(s) – None.

4. Reports

Reports attached in agenda

Highlights:

A. Utility Update – Katie Herrera

- ✓ Southern Lowcountry Regional Board (SoLoCo)
 - All project milestones have been reached and the design manual has been completed. Design standards were implemented February 1, 2021. Katie discussed making amendments to the SoLoCo manual to include guidance on linear projects.
- ✓ The county continues to work on delinquent accounts for the military installations. This is

still being handled by the county's legal department. Still waiting for to schedule the presentation by Legal.

B. Monitoring Update – Katie Herrera

Highlights:

- ✓ Halfway through Mossy Oaks monitoring at both the upstream and tidal floodgates
- ✓ Monitoring biweekly in coordination with Pepper Hall monitoring at the upstream and downstream locations. Water quality improvements to be made as BMPs installed at construction sites.
- ✓ Continuing sampling of all TMDL and 303d listed streams as well.

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

Highlights:

- ✓ Last year Municipalities requested CWI report fees for FY21. Deadline to report is September 1st and being coordinated through Matt in Infrastructure.

D. Stormwater Related Projects – Katie Herrera

Highlights:

- ✓ County staff continues to work on getting easements and meets monthly to review.
- ✓ The flyover bridge project is on track to have the Notice to Proceed issued. The Preconstruction meeting was held on August 10th.
- ✓ Shell Point Community –Katie and Julianna met with Alice Howard on July 8th and on July 27th met for our task force meeting. Cranston presented their drainage study report during that time. Scheduled Community meeting on August 26th.
- ✓ Factory Creek Watershed Regional Detention Basin “Phase I” & Academy Park Subdivision – Construction is complete and legal team is working on transferring ownership property.
- ✓ Factory Creek Watershed Regional Detention Basin “Phase II – Construction has been completed and legal team is coordinating property acquisition.
- ✓ Graves Property – Met with Pepper Hall development team on July 10th. Plans for the passive park were approved at the following SRT meeting on June 10th, with passive park plans approved on June 16th. Construction on pond has begun on site.
- ✓ Lady’s Island Plan, Sea Level Rise, and “no-fill” ordinance – No further updates at this time.
- ✓ Mr. Feinburg brought up Alljoy Community Meeting on August 3rd. Movement by residents and Councilman to have action taken by Stormwater staff. Current maintenance schedule for routine drainage is around 8 years. Areas can see a lot of change within 8 years. Should we go to council to ask to update fees. Discussed being on a more frequent maintenance schedule could alleviate some issues existing within the community. The County does respond to emergency situations in a more timely manner. Some ditches within infrastructure have been dug too deep which prevents water

from leaving the system due to elevation issues. Community wide effort will require community wide participation. Coordination efforts underway with SCDOT to collaborate on maintenance schedules. Mr. Feinburg reiterated importance of keeping Councilman Lawson informed and how important it will be for his constituents to participate in efforts as a group. Mr. Watkins asked about applying for grants yearly to get the funds to get ahead of these storm events. Funding opportunities discussed by Katie. Currently no active grant applications but intending to apply for future opportunities. The Penny tax was brought up for Pathway projects. Stormwater has done assessment on impacts from water quality and quantity from projects and impacts were minimal.

E. Professional Contracts Report – Katie Herrera

Highlights:

- ✓ Salt Creek and Shanklin Road – All necessary permits have been obtained. Beaufort County is still working with DOT. Appraisal in place. Met with Shanklin Rd property owner on July 2nd to gauge interest in project. Consulting engineer is working to address concerns
- ✓ Brewer Memorial – Contract has been signed following approval at June 28th County Council Meeting. Waiting on requisition and carry over budget approval.
- ✓ Evergreen Regional Pond 319 – Construction on going. Contractor busy digging and dewatering the site.
- ✓ Stormwater engineering consulting services – Continue working with Woolpert on scope #3, as well as scope #4 for tax run assistance.
- ✓ Katie clarified participation in projects dependent on property owner interest, we would look to take our funds elsewhere for work. South of Roseida road is interested in participating. Earlier in the week the property owner to the North also declared interest. Next step for County is to obtain appraisals on properties.

F. Regional Coordination – Katie Herrera

Highlights:

- ✓ Shell Point Community meeting August 26th and looking for participation from the board.
- ✓ Mossy Oaks monitoring continues in the area in coordination with USCB.

G. Municipal Reports – Katie Herrera

Reports attached in agenda

Highlights:

Reports information.

Town of Hilton Head Island (From Brian Eber)

- Stressed wetlands.
- Lowered all of the weirs on the island in preparation for storm season. Inlet cleaning, street sweeping, busy month.
- Implementing SEE CLICK FIX program. Web based reporting tool equivalent to Beaufort County Connect application.
- Adopt a Stream volunteer training session. A total of 17 people showed up, a second training will be held on August 20th, anticipating 12 additional trainees.

- Met with Bluffton and County staff met August 9th met about permit coordination, carpet cleaning issues.
- Success story with disposal of their FOGS – fats, oils, and grease program.
- ✓ Town of Bluffton (From Kim Jones, Watershed Management Division Director)
 - Reports Received – attached to the minutes
- ✓ City of Beaufort (From Nate Farrow, Public Works Director)
 - Working with finalizing the flap gate installation for any upcoming storm events. Johnny Morrall work to alleviate flooding issues experienced. County has provided assistance with both the Vac truck and the Camera truck.
 - IGA with the City of Beaufort and Town of Yemassee signed August 2nd.
- ✓ Town of Port Royal (From Van Willis, Town Manager)
 - No information was available at the time of this report.

H. MS4 Update – Katie Herrera

Highlights:

- ✓ Julianna will be taking over the Plan Review role for the Stormwater Department. Increase in permit issuance.
- ✓ Monthly inspections slowed slightly due to staffing efforts and Covid issues. 13 enforcement actions taken. IDDE investigations
- ✓ Rainfall Report – Significant amount of rain through the County. Within 4 months, Alljoy has seen 23 inches of rain. IDDE investigations continue to occur. Mr. Watkins asked how many people are actively enforcing and how quick response is to complaints. Currently 6 staff members available to do complaints and response time to issues is within 24 hours.
- ✓ Education Report - Ellen Sturup Comeau, Clemson Extension
 - Pond Conference upcoming.
 - Role and responsibility presentation as well as presentation on Evergreen 319 pond.
 - Keep Broad Creek Beautiful event County and Hilton Head staff will be participating.
 - Mr. Feinburg reiterated the importance of the educational events with children and how they impact the knowledge base of their parents and other adults.
 - Energov permitting software will be going live soon. Currently hosting train the trainer sessions with feedback provided to help improve the software. Katie looking forward to having a more streamlined software.
 - Mr. Feinburg asked question about MS4 program and overlap with other jurisdictions. A reduction in staffs could have a more focused MS4 approach within the County. The DHEC permit has not come out yet with new permit, but as permit

is updated, it would be a better time to discuss a more coordinated effort of MS4 responsibilities.

- Katie introduced staff updates to the meeting. Provided updates on staff accomplishments and the loss of our Administrative Assistance. Mr. Feinburg has requested employees we recognize be invited to the meetings so they may put a face with a name.

I. Maintenance Projects Report – Katie Herrera

Highlights:

- ✓ Major projects:
 - None
- ✓ Three minor or routine projects:
 - Graves Road – Bluffton (SWUD 4) – Roadside clearing. Cost \$12,650.51.
 - George Williams Lane Channel #2 – Sheldon (SWUD 5) Cost \$1,319.01.
 - Telfair Subdivision – Purrysburgh Drive – Ladys Island (SWUD 7) Cost \$3,756.57.

J. Liaison Report – Beaufort County Council - Alice Howard

Highlights:

- ✓ Ms. Howard is looking forward to participating in the Shell Point Task Force and community meetings.

5. Unfinished Business –

- ✓ Katie updated Mr. Feinburg on the existence of only one pond on the County park property for Pepper Hall. Confirmed with SRT and Engineering team. Also informed the Board there have not been received invoices yet for work to be performed, nothing to bring to the board.
- ✓ Ex-officio voting – Katie met with Ms. Howard to discuss if the Board should change ex-officio voting rights in coordination with potential redistricting of Council districts. Decision was made to keep the Board as is now. Ms. Howard said Council districts may change with public input, along with State voting. When the redistricting occurs, the Board would like legal to look into any state statues where this may be addressed or determined.
- ✓ Katie provided quick staff update and vacancies with the department.

6. No Public Comment.

7.Meeting Adjourned



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

October 13th, 2021 at 2:00 p.m.

Beaufort County Council Chambers, Administration Building, Beaufort County Government
Robert Smalls Complex, 100 Ribaut Road, Beaufort, South Carolina and via Webex

Board Members

Present

James Clark
Marc Feinberg
Patrick Mitchell
Brian Watkins

Absent

Allyn Schneider
Steven Andrews

Ex-Officio Members

Present

Absent

Kim Jones
Nate Farrow
Van Willis

Beaufort County Staff

Katie Herrera
Johanna Zoran
Neil Desai

Visitors

Jeff Netzinger, Town of Hilton Head
Alice Howard, County Council

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

A. Agenda – Approved

B. Approval of Minutes – Approved. Mr. Feinberg requested an amendment to the Minutes. Alice Howard is to be listed as absent on the Minutes from August 11th, 2021.

2. Introductions – Completed.

3. Public Comment(s) – None.

4. Reports

Reports attached in agenda

Highlights:

A. Utility Update – Katie Herrera

- ✓ Southern Lowcountry Regional Board (SoLoCo)
 - SoLoCo standards are continuously being implemented across all municipalities who are participating. A meeting is being scheduled with the City of Beaufort board members to include them in the implementation of these standards.

- ✓ Special Presentation
 - Dr. Montie has committed to participating in the November 10th meeting so Katie asked if the next Stormwater Utility Board meeting can be moved to December 15th. Mr. Feinberg would like to address this under New Business.
 - Cypress Wetlands – Looking into rescheduling from the summer to early winter of 2022.
 - Woolpert – Special presentations from our consultants for Jan/Feb 2022. Results from our MS4 program audit, Capital Improvement Plan and Stormwater Utility will be presented. Mr. Feinberg suggested that it be done as early in the year as possible.
- ✓ The county continues to work on delinquent accounts for the military installations. Will be keeping the PO for Gentry Locke Attorneys open and legal will present to the Utility Board at a future date.

B. Monitoring Update – Katie Herrera

Highlights:

- ✓ Still working closely with the laboratory on completing all Monitoring Plan components

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

Highlights:

- ✓ All municipalities were provided with FY21 CWI reports on September 1st. CWI reports for FY18 to FY20 were presented to committee members on October 5th, 2021.

D. Stormwater Related Projects – Katie Herrera

Highlights:

- ✓ County staff continues to work on getting easements and meets monthly to review.
- ✓ Construction has been completed for the flyover bridge repair project. Now waiting for final invoice and close out from contractor.
- ✓ Shell Point Community –Katie and Julianna are working on funding. SCEMD has advised staff about applying for BRIC, HMGP and ARPA grants in hopes that one will fund construction for this project. Next task force meeting is scheduled for week of October 25th. Mr. Feinberg asked who the task force members are. Katie listed them as follows: Katie Herrera, Julianna Corbin, James Clark, Van Willis, Noah Krepps, Alice Howard, Shannon Erikson, Elizabeth Sanders (DOT) and 2 residents of the Shell Point community.
- ✓ Factory Creek Watershed Regional Detention Basin “Phase I” & Academy Park Subdivision – Beaufort County legal is still handling obtaining easement.
- ✓ Factory Creek Watershed Regional Detention Basin “Phase II – Beaufort County legal is still handling obtaining easement to the pond that was built.

- ✓ Graves Property – Staff continue to work with engineers and legal to have comprehensive construction plans. Roads and Infrastructure have been approved as well as the town homes. Property owners continue construction on the pond located on the northwestern corner of property. Outfall structures are being retrofitted to function properly.
- ✓ Whitehall property – No updates currently. Construction has begun on City Property.
- ✓ Lady’s Island Plan, Sea Level Rise, and “no-fill” ordinance – After receiving feedback from an external organization it is now back on the table with Community development team

E. Professional Contracts Report – Katie Herrera

Highlights:

- ✓ Salt Creek and Shanklin Road – Appraisals have been completed. Guidance from County leadership has been requested to proceed with negotiations on prices for the property owners wish to participate.
- ✓ Brewer Memorial – Waiting to issue the Notice to Proceed. Construction would take place shortly after.
- ✓ Evergreen Regional Pond 319 – Contract extended until early 2022 due to some reasons experience by the contractor. Also applied for an extension with DHEC in September. There is a two month turn around for approval.
- ✓ Stormwater engineering consulting services –
 - Scope #1 – General Services. \$15,000 was allocated. Community development team questioned what the County considered as impervious and an analysis was completed under this scope. Mr. Feinberg asked if the purpose was to set a standard for a single-family home and Katie clarified that a standard is already in place and an analysis was completed to confirm that what the County considers impervious is in line with most of the State.
 - Scope #2 – \$30,000 allocated. Training of internal staff and developers in the community on the updates and major changes of the SoLoCo Design manual was completed in early spring.
 - Scope #3 – Woolpert conducting an audit to ensure compliance with all aspects of MS4 program, CIP plan and Stormwater Utility. \$105,000 allocated.
 - Scope #4 - \$29,900.00 allocated for the Tax Run and Utility assistance. Tax Run was completed on time by Carolyn Wallace with minimal amendments. Woolpert was used to assist when needed. They will also be used in early winter of next year to QA/QC data from previous years since 2015.

Mr. Watkins asked if funds for Scope #3 are paid yearly or every five years and it is required to be done. Katie clarified that it is a one-time payment and that it is not required but more for the department to be prepared for State and Federal audits. A finalized report will be provided in December. Mr. Watkins asked if there was any other county participating in this kind of audit. Katie stated that there are other counties participating. Mr. Netzinger stated that the Town of Hilton Head is considering having an audit done as well. Mr. Watkins was concerned of the amount

allocated and asked if we put a bid out for a cheaper rate. Katie stated that Woolpert is our on-call consultant and is budgeted to do services for us every year.

- Scope #5 – Drainage study for Buckwalter and Bluffton parkways. After conversing with Town of Bluffton and internal staff, this scope was determined unnecessary.
- Scope #6 – \$10,000.00 was allocated to a drainage study off of Middle Rd where flooding occurs. County considered purchasing a property to put a BMP to help with flooding however it was determined that it would only be of benefit at a 100-year storm level. Mr. Feinberg asked if this is similar to Alljoy. Katie stated it was not a title issue like that of Alljoy. Katie stated that this would fit into a bigger drainage study described in Scope #7.
- Scope #7 – Still reviewing their proposal for Northern Ladys Island Drainage study. Projected cost is between \$150,000.00 - \$300,000.00. The higher the cost the better the model will be. Mr. Feinberg asked if this amount is earmarked in the budget and Katie confirmed it is.
- Other scopes on County radar.
 - We are looking to apply for a 319 Grant in early February for Arthur Home Park to alleviate flooding.
 - Seeking a recommendation on how to proceed with Battery Creek Pond.
 - St Helena Drainage study
 - Annual report to DHEC presentation changed to April 2022.
- Mr. Feinberg inquired about Alljoy. He wanted to know if we were going to address it in the future or will it need to be given to a different department in the County. Mr. Watkins stated that he drove out there and witnessed SCDOT digging out ditches and their work butted up to County ditches where there needs to be some clearing also. Katie stated that there are monthly meetings held with SCDOT and in coordination with them if they inform us they will be at Alljoy then we can take care of our portions. SCEMD has encouraged us to apply for Hazard Mitigation Grant to do a study done to assess the area and then get engineering, design and construction done if possible.

F. Regional Coordination – Katie Herrera

Highlights:

- ✓ Mossy Oaks monitoring continues in the area in coordination with USCB.
- ✓ May River Watershed Modeling – No updates currently
- ✓ County has signed IGA's with Town of Yemassee and City of Beaufort for professional services.

G. Municipal Reports – Katie Herrera

Reports attached in agenda

Highlights:

Reports information.

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

- Short staffed and changes in administration taking place
- Improve resiliency to pump stations and adding backflow devices and getting more robust debris screens to protect the pumps.

- Happy to hear that Annual reports moved to April 2022 giving them more time
- ✓ Town of Bluffton (From Kim Jones, Watershed Management Division Director)
 - Reports Received – attached to the minutes
- ✓ City of Beaufort (From Nate Farrow, Public Works Director)
 - No information was available at the time of this report.
- ✓ Town of Port Royal (From Van Willis, Town Manager)
 - No information was available at the time of this report.

H. MS4 Update – Katie Herrera

Highlights:

- ✓ Plan Review
- ✓ Stormwater Permits - Applications for single family and commercial projects continue and 50 new permits were issued last month.
- ✓ Monthly Inspection summary
- ✓ Weather Station Data – Report unavailable
- ✓ Education Report – Ellen Stirup Comeau, Clemson Extension not present (report attached)
 - We participated in the Frogmore 5K as an educational event at the Executive Airport on Ladys Island.
 - Pond Conference on October 26th and 27th
 - Role and responsibility presentation as well as presentation on Evergreen 319 pond.
- ✓ MS4 Statewide General permit – No further update at this time.
- ✓ Katie introduced staff updates to the meeting. Johanna Zoran started on September 20th as the new Stormwater Infrastructure Senior Administrative Specialist. Still advertising for Stormwater Administrative Assistant and at this time no successful candidate yet.

I. Maintenance Projects Report – Katie Herrera

Highlights:

- ✓ Major projects:
 - None
- ✓ Three minor or routine projects:
 - Graves Road – Bluffton (SWUD 4) – Roadside clearing. Cost \$12,650.51.
 - George Williams Lane Channel #2 – Sheldon (SWUD 5) Cost \$1,319.01.
 - Telfair Subdivision – Purrysburgh Drive – Ladys Island (SWUD 7) Cost \$3,756.57.

J. Liaison Report – Beaufort County Council - Alice Howard

Highlights:

- ✓ Shell Point Task Force and public meetings are going well.
- ✓ Ms. Howard has not heard anything on the status of the Military Stormwater at the County level

- ✓ Mr. Feinberg posed a question regarding attorney fees. Mr. Desai stated that we are not charged for the use of internal legal staff, however we have contracted with Gentry Locke, an outside legal firm in case the need arises. As of today, there have no services rendered except for a small amount of legal and document review and a few meetings that were set up. No retainer fee, as hour basis only. Mr. Desai stated that current ordinance requires the pursuit of delinquent fees. Looking into the need to modify or amend the current ordinance so that we are not in violation with our own ordinance. A legal review and then a meeting with County Administrators and upper management may determine a change to the ordinance and then it will be presented to Beaufort County Council for adoption. Mr. Desai stated that two municipalities are requesting to not pursue it, however we have to make sure we are not in violation.

5. Unfinished Business –

- ✓ Infrastructure Maintenance timeline – Katie stated that internal staff are looking at prioritizing projects so that we can be more proactive rather than reactive to problems that occur. Woolpert is helping with the prioritization so that we can be most effective with the staff we have available. Discussions about possibly trying to contract out the more emergent situations rather than handle routine, preventative, and emergency maintenance all in house. Working on funding for FY23 to implement it and improve our turnaround for routine maintenance.

6. New Business – Katie Herrera

- ✓ SoLoCo Design Manual Updates – Katie Herrera presented to the Utility Board the proposed updates to the the SoLoCo Manual for approval. Mr. Clark had some questions regarding some of the updates and Katie addressed them. Motion to approve was made by Brian Watkins and seconded by Patrick Mitchell and unanimously adopted.
- ✓ Academy Park BMP Acceptance – Katie is seeking the approval to move forward with a purchase agreement with the developer and the County. Motion to accept the development plan for Academy Park BMP was made by Brian Watkins and seconded by Patrick Mitchell and it was unanimously adopted.
- ✓ Battery Creek 319 Pond – Mr. Andrews could not be present however he wanted the Board to be aware of the issues with the forebay and outfall structure at this location, therefore Katie presented some photos and a description of problems this pond is having. We are working with Woolpert to get a recommendation on how to retrofit the system so that it functions correctly. Mr. Feinberg stated that Mr. Andrews sent him some comments to be put on record. Mr. Andrews questioned if there was a way to capture trash and debris from washing into the BMP's altogether and if it is possible to track where the trash is coming from. Katie stated that the debris is coming from the developed area by Walmart. Educational efforts have been made regarding where debris ultimately ends up. Woolpert's recommendation should determine if it was built as designed or will upgrades need to be made. Mr. Feinberg stressed the importance of educating students about the effects of littering.
- ✓ IDDE update – HWY 278 – Katie was updating the board on an illicit discharge of the sewer

system off of HWY 278. The issue has been resolved.

- ✓ Mr. Feinberg inquired if the calendar for 2022 had to be voted on in November or can it be pushed back to early December. Mr. Clark stated that holiday schedules may be an issue. He also stated that if there will be a meeting in January than meeting in November is critical. Katie stated that they usually never meet in January and typically the first meeting of the year is in February. Therefore, December was determined to be the most beneficial. Katie confirmed that the vote on our meeting schedule does not have to be in November. Mr. Feinberg made a motion to approve moving the next Utility Board meeting to December and hold a meeting every other month starting in February 2022. Patrick Mitchell and James Clark seconded the motion, and it was unanimously adopted. The next Utility Board meeting will be December 15th.

7. No Public Comment.

8.Meeting Adjourned

DRAFT



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, December 15th 2021
2:00 p.m.
Executive Conference Room, Administration Building
Beaufort County Government Robert Smalls Complex
100 Ribaut Road, Beaufort, South Carolina
843.255.2805

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.

1. CALL TO ORDER – 2:00 p.m.
 - A. Approval of Agenda
 - B. Approval of Minutes – October 13th, 2021 ([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
 - A. 2022 Stormwater Utility Board Schedule
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
 - A. Wednesday, January 19th, 2022 ([backup](#))
9. ADJOURNMENT