



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, September 9, 2020
2:00 p.m.
WebEx
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 – July 8, 2020 ([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
 - A. Utility Update – Katie Herrera ([backup](#))
 - B. Monitoring Update – Katie Herrera ([backup](#))
 - C. Stormwater Related Projects – Katie Herrera ([backup](#))
 - D. Upcoming Professional Contracts Report – Katie Herrera ([backup](#))
 - E. Regional Coordination – Katie Herrera ([backup](#))
 - F. Municipal Reports – Katie Herrera ([backup](#))
 - G. MS4 Update – Katie Herrera ([backup](#))
 - H. Maintenance Projects Report – Matthew Rausch ([backup](#))
5. UNFINISHED BUSINESS
6. NEW BUSINESS
 - A. Malind Bluff Presentation – Tanner Powell
 - B. SoLoCo Special Presentation – Bill Hodgins CWP
 - C. SoLoCo Design Manual and Ordinance – Katie Herrera
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
 - A. October 14, 2020 ([backup](#))
9. ADJOURNMENT





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

July 8, 2020 at 2:00 p.m. via WebEx.
Draft Minutes 07/08/2020

Board Members

Present

Allyn Schneider
James Clark
Steven Andrews
James Fargher
Marc Feinberg
William Bruggeman

Absent

Patrick Mitchell

Beaufort County Staff

Jennifer Smith
Katie Herrera
Matthew Rausch
Neil Desai

Ex-Officio Members

Present

Kim Jones
Scott Liggett

Absent

Nate Farrow
Van Willis

Visitors

Alice Howard, District 4, County Council
Ellen Sturup Comeau, Clemson Extension
Bruce Reynolds, Citizen
York Glover, District, Council Member

1. Meeting called to order – William Bruggeman at 2:05 pm

- A. Agenda – Approved
- B. February 12, 2020 minutes and March 11, 2020 Minutes – Approved

2. Introductions – Completed.

3. Public Comment(s) – None.

4. Reports –

A. Utility Update – Katie Herrera

1. Southern Lowcountry Regional Board (SoLoCo) – completed

- a) The current schedule for completion and finalization on the document and activities of Center for Watershed Protection (CWP) is as follows:

Remaining project milestones to be completed:

- 1. Bills presentation to us for the Center of Watershed Protection

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.

3. Special presentation

- Bill Hodgins with Center for Watershed Protection for an update on the Regional Design Manual and Ordinance – is ready to present in person when meetings resume.
- Katie asked for any suggestion for future meetings involving special presentations – no suggestions at this time.

4. Delinquent accounts –

- Still in Phase I Investigations with Gentry Locke Attorneys
- Gentry Locke continues to do research on delinquent fees.

6. Reminder: Annual Financial report from the Municipalities are due – Per the Intergovernmental Agreements for the Utility, each year on September 30th, as of today we have received all of the reports except for the USC of Beaufort and are attached to the packet.

B. Monitoring Update – Katie Herrera

- No information was available at the time of this report.

C. Stormwater Related Projects – Katie Herrera

1. Easements – Staff is working on easement requests and meets monthly to review status. A few condemnations are still being pursued using outside legal counsel.
2. Complaints – Staff continually works numerous drainage related complaints each month.
 - a) Flyover bridge preventative maintenance and deferred maintenance repairs –
 - b) Last update: Consultant working on preliminary design and permitting. Consultant is proceeding to apply for the wetland/critical area permit from the state & federal agencies.
Shell Point Community Meeting – Cranston Engineering is working on the drainage study.
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) – Construction on-going and estimated to be 60% complete.
4. Factory Creek Watershed Regional Detention Basin “Phase II” (Design Cost = \$63,390, Tree Mitigation Cost is pending, Construction Cost by the Developer) – Construction on-going and estimated to be 80% complete.
5. Graves Property / Pepper Hall Public / private partnership – Engineer has submitted conceptual Stormwater Permit plans for roads and infrastructure on the Graves Property. Staff is waiting for Stormwater Master Plan for Graves Property.
6. Whitehall property purchase – County staff met to review the conceptual Stormwater masterplan for the property with the engineer on June 1st, 2020.
7. US 278 “super street” widening on Jenkins Island (Windmill Harbor area) – No update at this time.



8. Lady's Island Plan, Sea Level Rise, and "no-fill" ordinance – Draft Beaufort County Sea Level Rise Taskforce recommendations were received on June 1st, 2020. Draft ordinance recommendations were provided to staff on June 26th. Staff will be meeting with Sea Level Rise Taskforce members to discuss ordinance and recommendations in July 10, 2020.

D. Professional Contracts Report – Katie Herrera

1. CIP FY 18 Grouping Stormwater Projects – (Design - Ward Edwards \$202,000, Andrews Engineering \$560,490, Const. est. \$5,512,900) – All projects are in early design phase.
 - a) Salt Creek and Shanklin Road – 30% Design submittal under review. Right-of-way acquisition areas being assessed and Notice to property owners affected by project work and property acquisition requirements being finalized. Finalizing the proposed notification to residents for mailing in the near future.
 - b) Brewer Memorial – SCDOT has approved County request for pipe diversion and consultant is preparing final design and permitting. Consultant getting in touch with Clemson Extension for possible educational partnership.
2. Evergreen Regional Pond 319 grant project – (Design=\$89,286, Construction=\$590,000. Grant=\$229,124) – 100% Design submittal.
3. RFQ for Stormwater engineering consulting services was advertised on May 25th, 2020. RFQ closed on June 30th, 2020. Ten applicants and moving into next phase of review

E. Regional Coordination – Katie Herrera

- Town of Bluffton and Beaufort County Joint meetings on Sanitary Sewer in the May River watershed – Representatives from County and Town of Bluffton met on February 27th to discuss sanitary sewer extension work and priority. The next meeting is scheduled for March 31st with the Town of Bluffton, Beaufort County and BJWSA. Staff is looking at available funding options, Legal Department to provide additional guidance/recommendations.
- Mossy Oaks Task Force –An MOU with the City was signed and approved by County Council on May 26th, 2020.
- Charleston Area MS4 managers group – Next meeting is scheduled for June 25th, 2020. Ki and Katie provided a brief update on the status of the SoLoCo project to the group. Lowcountry of Charleston area seems very interested to mirror something similar in their area.

F. Municipal Reports – Katie Herrera

1. Town of Hilton Head Island (From Jeff Netzinger, Stormwater Manager and Brian Eber, MS4 Coordinator)
 - i. No information was available at the time of this report. Submitted after meeting (attached)
2. Town of Bluffton (From Kim Jones, Watershed Management Division Director)
 - i. No information was available at the time of this report. Submitted after meeting (attached)
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.

G. MS4 Update – Katie Herrera
Report attached in agenda

- Energov permitting software – Staff met with Energov implementation team on May 11th, 2020 to provide additional clarification on provided documentation. Implementation is on track for early to mid-November of this year.
- ✓ *Alice Howard stated that Don Newton sent an email concerning Katie Herrera. Being very complimentary of Katie's efforts to help him get in a credit application last minute.*

H. Maintenance Projects Report – Matthew Rausch

- Three completed projects totaling \$16,971.36
 1. Port Royal
 2. Sheldon
 3. St. Helena
- No major projects closed out during this report.
- ✓ James Fargher asked the following question: *“With the recent rain on Fripp and Harbor Island, how did St. Helena Island fair the last couple of days”*
Matt responded, stating *it has been challenging and they have been responding to a lot of calls with community issue complaints. Received approximately 25 complaints within the last 24 hours.*
Mr. Fargher asked when will complaints be handles and Matt stated they are responding to them as they come in.

5. Unfinished Business –

6. New Business –

- A. FY19 Actuals
 - a. Presented in packet
- B. FY21 Budget Adjustment
 - a. Utility Board and County approvals on the budget
 - i. One change after approval: removed one of our infrastructure equipment and excavator
 - b. Voted on FY21 modification – approved



7. Public Comment(s) – None

8. Next Meeting Agenda – Approved.

9. Meeting Adjourned

DRAFT

TOWN COUNCIL

STAFF REPORT

Engineering Department



MEETING DATE:	July 14, 2020
SUBJECT:	Engineering Department Monthly Report
PROJECT MANAGER:	Bryan McIlwee, Director of Engineering

CAPITAL IMPROVEMENTS PROGRAM (CIP) AND SPECIAL PROJECTS UPDATE

PATHWAYS

1. Goethe-Shults Sidewalks Phase 2

- Construction documents, permitting and easement acquisitions are underway.
- **Next Steps**
 - Complete easement acquisition, permitting and construction documents in October 2020.
 - Begin construction in January 2021.

2. Buck Island-Simmons ville Neighborhood Sidewalks and Lighting

- Construction of Phase 4 sidewalks (Buck Island Road from Jennifer Court to Grayco) is complete and has received SCDOT approval.
- Phase 5 (Kitty Road to 301 Buck Island Road) construction is underway.
- Phase 6A (along Simmons ville Road from Grayco northward to Sugaree Drive) is under design and permit review.
- Phase 6B (along Simmons ville Road from Sugaree Drive northward to the existing New Mustang Road sidewalks) is under design.
- **Next Steps**
 - Phase 5 - Construction (from Kitty Road to lot 310 Buck Island Road) is underway and anticipated to be completed in late Summer 2020.
 - Phase 6 - Design and construction of the remaining Simmons ville Road sidewalks, Phase 6 to be completed in FY 2021-2022.

3. Bridge Street Streetscape

- Construction documents and permitting are underway for Phase 1 streetscape (Burnt Church Road to Calhoun Street). Staff reviewed 70% construction drawings and submitted review comments to Engineer.
- SCDHEC 319 grant application was submitted for grant funding for drainage.
- Obtained geotechnical report and located Spectrum and Hargray utilities lines.

- **Next Steps**
 - Complete engineering design and street lighting plans.
 - Prepare easement plats, obtain easement and issue bid documents in FY 2021 with construction in FY 2022.
 - Survey Telecommunication lines and equipment.
- 4. New Riverside Linear Trail**
- FY 2021 parking, trail and signage improvements are complete.
 - Installation of entry gate is complete.
 - **Next Steps**
 - Begin planning and prepare a Conceptual Master Plan in FY 2022 pending budget approval.

SEWER & WATER

- 1. Buck Island-Simmons ville Sewer (Phases 5A-5E)**
- Construction has started on Phase 5E (Poseys Court).
 - Construction contract for Phase 5A-D has been approved by Commerce.
 - **Next Steps**
 - Begin construction on Phase 5A-D.
 - Start house connections after the main line construction is complete.
- 2. Historic District Sewer Extension Phase 1 - Pritchard Street**
- Construction is scheduled begin in August.
 - **Next Steps**
 - Start house connections after the main line construction is complete.
- 3. Historic District Sewer Extension Phase 2 - Bridge Street**
- Received SCDHEC permit to construct.
 - Continue negotiations with property owners for right of entry agreements.
 - **Next Steps**
 - Obtain road ownership from SCDOT.
 - Advertise for bids.
- 4. Jason-Able Neighborhood Sanitary Sewer**
- A contract has been issued to Potter Construction for the sewer main to serve the additional lots fronting the May River Road.
 - **Next Steps**
 - Resolve disagreement regarding easement.
 - Complete construction and project closeout.

HISTORIC DISTRICT IMPROVEMENTS

1. Boundary Street Lighting

- Phase 2 photometric plans complete.
- Received Phase 2 encroachment permit from SCDOT.
- Lighting agreements approved by Town Council in May.
- Agreement has been executed by both parties.
- Dominion Energy has reported delays in manufacturing and shipping of fixtures and poles.
- **Next Steps**
 - Obtain easements as needed for Phase 2 street lighting.
 - Begin installation of street lighting in the late Summer 2020.

2. 184 Bluffton Road Renovations

- Site work, landscaping, lighting and signage complete.
- Parking Lot Rules signage has been installed.
- **Next Steps**
 - Meet with Greenery to discuss maintenance on project.

3. Historic District Enhancements

- Watershed Management Staff is evaluating survey data collected along Boundary Street to prepare drainage solutions at AME Church and Boundary and Lawrence Street intersections.
- **Next Steps**
 - Implement Storm Water Management features to address drainage issues in the area.
 - Continue planning of lighting, signage, crosswalks and ADA improvements.

4. Calhoun Street Streetscape

- MKSK updated Conceptual Streetscape Plans to incorporate alternate site furnishings and proposed Dominion Energy facilities.
- Completed locating and surveying underground telecommunication utilities.
- **Next Steps**
 - Submit Streetscape Master Plans and illustrations for review at the July Town Council Workshop.
 - Meet with Dominion Energy to discuss next steps for planning of underground power.

PARK DEVELOPMENT

1. Oyster Factory Park

- Obtained draft Conceptual Master Plan and cost estimate from Witmer, Jones, Keefer.

- **Next Steps**
 - Contract routing and approval circulated, to be followed by Town Manager's signature, for installation of salvaged Calhoun Street dock components at Oyster Factory Park.
 - Present updated Master Plan at the July Town Council Workshop.
 - Begin final design of next phase of improvements per Town Council direction provided at the Workshop.
 - Garvin-Garvey exterior signage to be installed in late July 2020.

- 2. **68 Boundary Street Park Renovations**
 - Contract approved to replace detectable warning mats with pavers.
 - Completed proof of the dedication sign. Awaiting date for park opening.
 - **Next Steps**
 - Install detectable warning pavers.
 - Install Martin Family sign prior to park dedication.

- 3. **Calhoun Street Dock and Public Riverfront Access Improvements**
 - Began Construction of dock in May 2020.
 - **Next Steps**
 - Complete construction of dock in August 2020.

- 4. **Wright Family Park**
 - Stairs to bulkhead boardwalk and beach are 100% complete.
 - Site work construction began in January 2020. Bulkhead, boardwalk, restroom building, and parking area are substantially complete.
 - Perimeter sidewalks and landscape are 75% complete.
 - Site signage, and furniture are 80% complete.
 - Interpretive signage design is underway.
 - Water Meters installed by BJWSA
 - Restroom/Kitchenette-sewer & water service connection completed.
 - **Next Steps**
 - Complete sidewalks, landscape, and lighting in July.
 - Install site furnishings, warming kitchen equipment and complete construction of Calhoun Street plaza in August. Install driveway/parking area and obtain CO for restroom building.
 - Install Dominion lighting in July.
 - Prepare Change Order request for additional seating areas adjacent to the dock.
 - Obtain construction documents for Squire Pope Cottage in second quarter of FY 2021.

- 5. **Oscar Frazier Park**
 - Survey and design of perimeter sidewalks are complete.
 - Obtained new bids for sidewalk construction on 2/24/20.

- **Next Steps**
 - Revised bids exceeded budget and sidewalk will be installed in FY 2021.

6. **Veterans Memorial**

- Project is substantially complete.
- Southern Palmetto Landscape and Grand Oaks Construction have completed punch list items.
- Engraved bricks have been installed.
- **Next Steps**
 - Install dedication plaque prior to dedication.

7. **New Riverside Barn/Park**

- Surveying and public input sessions are complete. Survey results were presented at January Town Council Workshop.
- Received initial Concept Plans from consultants in March.
- Requested additional design services from Hart Howerton and plans were reviewed on 6/24/20.
- Submitted grant application to LWCF for initial phase of the project.
- **Next Steps**
 - Hart Howerton to complete Conceptual Master Plan alternatives and Conceptual Architectural Plan for the barn renovation.
 - Present progress plans to Council at the October Workshop.
 - Complete construction drawings of Phase 1 development in FY 2021.
 - Phase 1 construction is anticipated to begin in FY 2022.

TOWN FACILITIES AND MISCELLANEOUS PLANNING

1. **Buckwalter Place Multi-County Commerce Park**

- Site development and landscape plans for the LEC expansion are complete and sent to permitting agencies.
- Invitation for Bid will be reissued for the LEC Expansion Site Development in August.
- **Next Steps**
 - Complete final landscaping and punch list items at the park.
 - Obtain bids for the LEC site work and prepare contract for Town Council approval in September.
 - Continue infrastructure planning for the Town's future development parcels. Final design and construction pending clarification of project scope and FY 2021 budget approval.
 - Prepare preliminary design for Restroom facility at the new park.

2. **Town of Bluffton Housing Project**

- Surveying and geotechnical services complete for 1095 May River Road and 115 Bluffton Road sites.
- Evaluation and interviews of proposed joint venture partners are underway.

- **Next Steps**
 - Preparation of Joint Venture Partners Agreement.
 - Planning and design to begin in FY 2021.

3. **Ghost Roads**

- Surveying is underway for easement exhibits.
- Pritchard Street Quit Claim Deed exhibits are complete. The Town Attorney is working on finalizing the document with Beaufort County.
- 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.

DIVISION/STAFF UPDATES

Project Management

Thirty-two (32) CIP projects are currently in progress. Don Ryan Center, Veteran Memorial and Phase 4 sidewalks have recently been completed. CIP projects including Wright Family Park, Buckwalter Park, Calhoun Street Dock, BIS Phase 5 sewer and BIS Phase 5 sidewalks are currently under construction. The LEC Expansion, Pritchard Street Sewer, Jason Able Sewer Extension and the Boundary Street Lighting projects are expected to start construction in the summer of 2020.

Watershed Management

1. Southern Lowcountry Regional Board (SoLoCo)

a. Southern Lowcountry Regional Stormwater Ordinance and Design Manual

- Via concurrence of the Mayor and direction by the Town Manager, staff has participated in the SoLoCo Technical Working Group to develop a regional stormwater model ordinance and design manual and investigate the viability of a regional stormwater authority.
- Final documents have been delivered and staff is conducting internal review for consistency with the Unified Development Ordinance prior to Legal Review.
- **Next Steps**
 - Anticipated presentation on 7/28/20 to SoLoCo to request a recommendation for adoption by each partner jurisdiction.

b. Sea Level Rise Task Force

- Following Beaufort County's presentation and request for regional participation at the 10/22/19 SoLoCo meeting, staff is attending the Sea Level Rise Task Force meetings to discuss a possible No Fill Ordinance and county-wide adaptation strategies.

- Meetings continue to discuss projected impacts of sea level rise on the region with a focus on ways that local government can respond through policies, ordinances and projects to mitigate the potential impacts of sea level rise.
 - **Next Steps**
 - Internal staff reviews of draft documents to offer feedback to Task Force prior to finalizing documents for Beaufort County to present and request a recommendation from SoLoCo for regional partners to adopt.
- 2. Joint Councils Meeting for Watershed Management Initiatives**
- BJWSA developed their CIP list for FY 2020 sewer projects which does not include any projects in the County's jurisdiction in the May River Headwaters without cost-sharing.
 - Following the Joint Councils Meeting with BJWSA, held on 2/25/20, staff from Beaufort County and Town of Bluffton met to discuss sewer extension scope and strategy on 2/27/20.
 - Staff from the Town, County, and BJWSA met via Zoom 3/27/20 to confirm project scope, cost, and potential project manager. The last project cost estimate to extend, connect, and abandon septic in the Stoney Creek project area is \$4.7 million (B. Chemsak email 7/22/19) but they anticipate those numbers increasing to \$5.5 million. The proposal is 1/3 cost-share, so the Town's portion would be approximately \$1.83 million. Beaufort County has not formally agreed or committed any funding.
 - Neither BJWSA nor Beaufort County have committed funds in FY 2021 to begin sewer extension.
 - Town Manager, Director of Engineering and staff met with BJWSA General Manager, Engineer and staff on 6/5/20 to discuss how to move the project forward.
 - **Next Steps**
 - Staff to work with BJWSA staff to prepare Project Information Sheet to include scope, cost, cost-share, exhibits, and timeline for project implementation by 7/31/20.
- 3. SC Department of Health and Environmental Control May River Shellfish Harvesting Monitoring Data Year-to-Date and May River Shellfish Harvesting Status Exhibit – Attachments 1 and 1a**
- 4. May River Watershed Action Plan Implementation Summary - Attachment 2**
- 5. MS4 Minimum Control Measure (MCM) - #1 Public Education and Outreach, and MS4 MCM - #2 Public Participation and Involvement**
- Beaufort County Stormwater Utility Board meeting on 6/10/20 was canceled due to COVID-19.
 - May River Watershed Action Plan Advisory Committee meeting was canceled due to lack of Agenda items. **Attachment 3**
- 6. MS4 MCM – #3 Illicit Discharge Detection and Elimination**

- Stormwater Infrastructure Inventory Map - **Attachment 4a**
 - *E. coli* Concentrations Trend Map - **Attachment 4b**
 - Monthly, Microbial Source Tracking (MST) Maps - **Attachments 4c and 4d**
 - 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, 19-24, and 19-16. SCDHEC did not conduct regulatory sampling in June. SCDHEC sampling will resume on 7/7/20.
 - Illicit Discharge Investigations – **Attachment 4e**
7. **MS4 MCM – #4 Construction Site Stormwater Runoff Control – Attachment 5**
 8. **MS4 MCM – #5 Stormwater Plan Review and Related Activity – Attachment 6**
 9. **MS4 MCM – #6 Good Housekeeping (Staff Training/Education)**
 - Staff completed Clemson Extension's Certified Erosion Prevention Sediment Control Inspector recertification (CEPSCI) training.
 10. **Citizen Drainage, Maintenance, and Inspections Concern Map – Attachment 7**
 11. **Citizen Request for Watershed Management Services & Activities – Attachment 8**

Public Works

1. **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 Master's 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.
 - Ongoing mowing of the New River side trail and field at New River barn.
 - Beautification Program –Landscape Maintenance - ongoing routine.
2. **Facilities**
 - Facilities and Parks Maintenance - ongoing routine.
3. **Public Works Activities Report - Attachment 9**

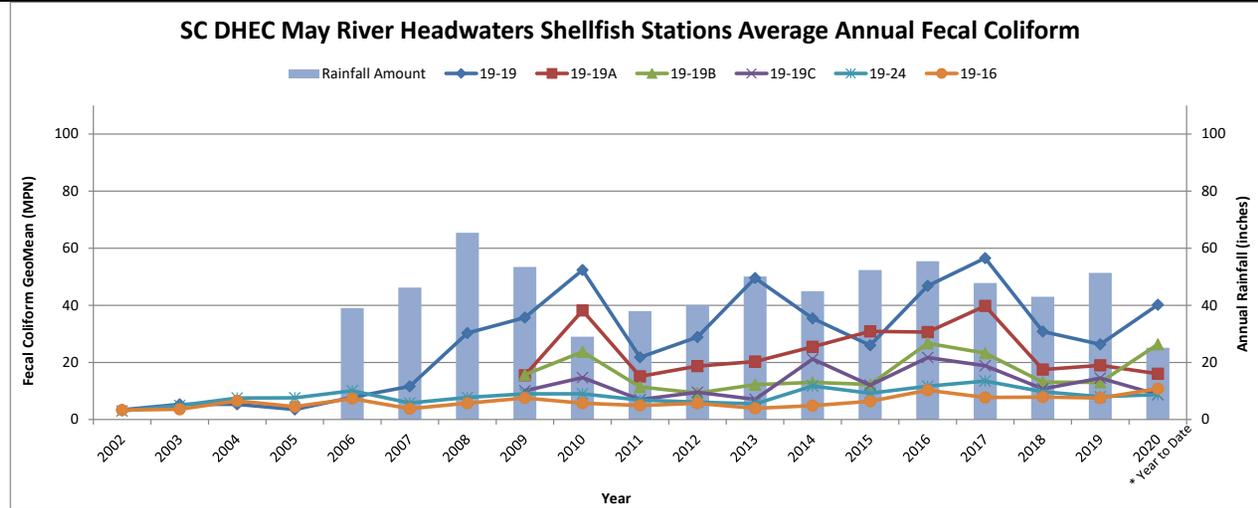
Attachments

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 Agenda
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 Concern Map
8. Citizen Request for Watershed Management Services and Activities Map
9. Public Works Activities Report

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

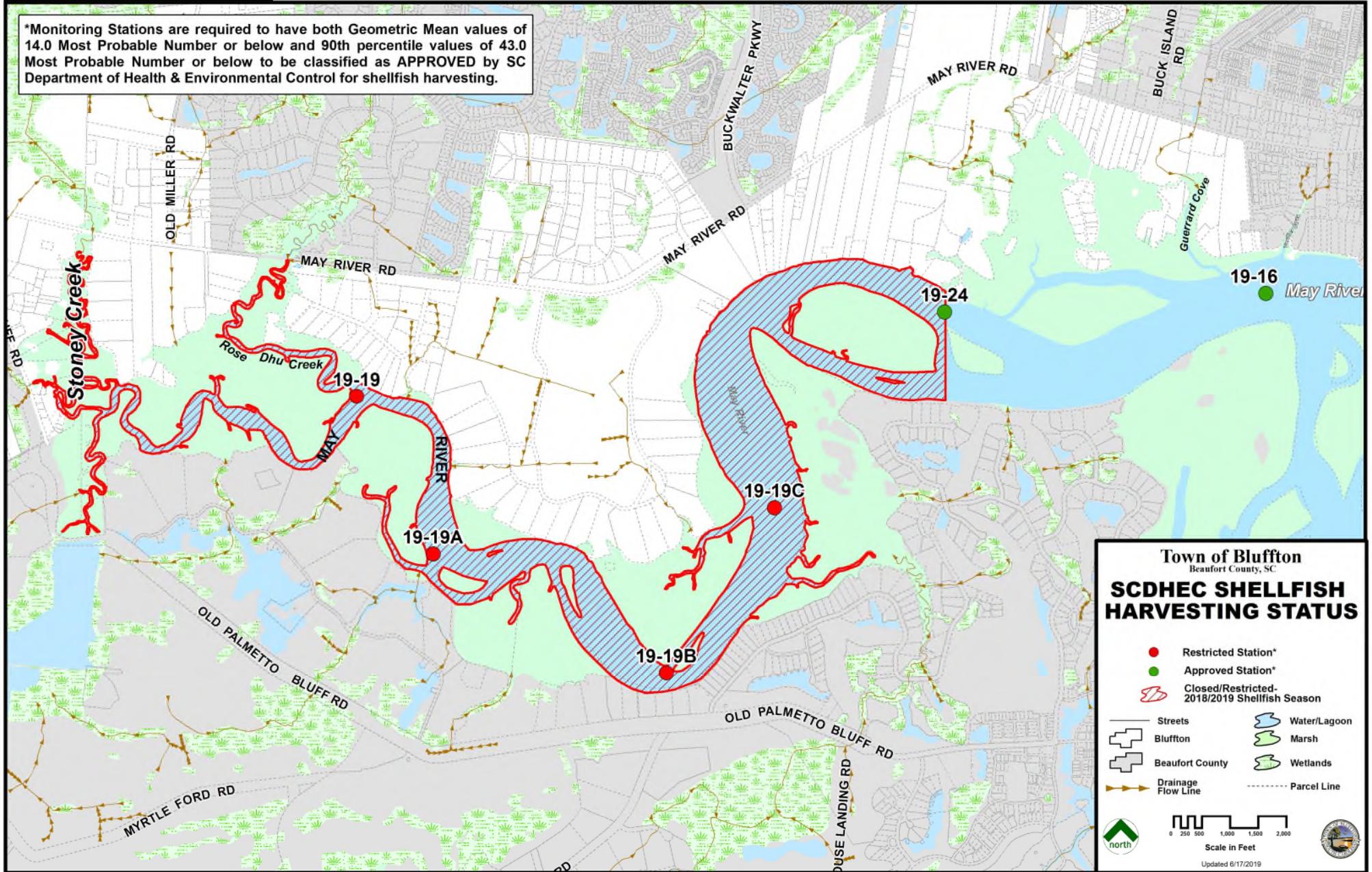
	19-19				19-19A				19-19B				19-19C				19-24				19-16							
	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020
	Fecal Coliform (MPN)																											
December	1600.0	79.0	170.0		920.0	49.0	33.0		540.0	33.0	140.0		240.0	46.0	33.0		220.0	23.0	13.0		49.0	21.0	110.0					
November	49.0	49.0	17.0		33.0	13.0	6.8		7.8	23.0	7.8		31.0	17.0	11.0		2.0	17.0	4.5		2.0	7.8	2.0					
October	22.0	79.0	7.8		49.0	23.0	4.5		33.0	7.8	2.0		23.0	7.8	4.5		6.8	7.8	1.8		2.0	2.0	2.0					
September	17.0	49.0	79.0		7.8	23.0	33.0		11.0	13.0	6.8		4.5	17.0	17.0		2.0	17.0	4.5		1.8	17.0	1.8					
August	79.0	70.0	70.0		70.0	23.0	49.0		21.0	13.0	33.0		33.0	4.5	22.0		33.0	7.8	7.8		33.0	17.0	17.0					
July	350.0	23.0	4.5		110.0	33.0	13.0		130.0	11.0	7.8		49.0	7.8	17.0		49.0	13.0	22.0		22.0	4.5	13.0					
June	23.0	11.0	33.0	NS	49.0	23.0	49.0	NS	13.0	23.0	49.0	NS	17.0	7.8	46.0	NS	7.8	4.5	13.0	NS	4.5	1.8	4.5	NS				
May	17.0	17.0	7.8	Pending	23.0	33.0	9.2	Pending	7.8	17.0	7.8	Pending	2.0	13.0	2.0	Pending	23.0	23.0	6.8	Pending	4.5	13.0	4.5	Pending				
April	7.8	33.0	23.0	33.0	23.0	13.0	13.0	33.0	4.5	17.0	7.8	13.0	7.8	17.0	6.8	6.8	13.0	49.0	23.0	13.0	4.5	17.0	6.8	13.0				
March	350.0	22.0	23.0	170.0	11.0	21.0	23.0	49.0	33.0	4.5	6.8	130.0	13.0	11.0	13.0	49.0	13.0	7.8	7.8	70.0	33.0	9.3	4.5	33.0				
February	13.0	17.0	64.0	17.0	7.8	7.8	33.0	7.8	13.0	17.0	23.0	21.0	9.3	17.0	31.0	4.5	4.5	2.0	6.8	4.5	1.8	7.8	13.0	6.8				
January	95.0	13.0	23.0	95.0	79.0	2.0	23.0	33.0	31.0	4.5	13.0	33.0	49.0	2.0	33.0	17.0	27.0	1.8	7.8	17.0	33.0	4.5	23.0	17.0				
Additional Samples																												
Additional Samples																												
Average Annual GeoMean	56.5	30.8	26.4	54.9	39.8	17.5	19.0	25.4	23.3	13.1	13.0	32.9	18.8	10.7	14.5	12.6	13.5	9.8	8.0	16.2	7.7	7.9	7.5	14.9				
** Truncated GeoMetric Mean	44.0	42.0	35.0	29.0	36.0	29.0	23.0	17.0	20.0	20.0	16.0	13.0	16.0	15.0	14.0	12.0	10.0	10.0	10.0	8.0	7.0	8.0	7.0	7.0				
** Truncated 90th Percentile	203.0	176.0	168.0	92.0	133.0	115.0	89.0	48.0	83.0	71.0	63.0	42.0	57.0	56.0	52.0	35.0	37.0	44.0	38.0	25.0	29.0	30.0	32.0	27.0				

NS = No Sample
 AS = Additional Samples
 ** Town staff calculations utilizing DHEC statistics



May River Headwaters

*Monitoring Stations are required to have both Geometric Mean values of 14.0 Most Probable Number or below and 90th percentile values of 43.0 Most Probable Number or below to be classified as APPROVED by SC Department of Health & Environmental Control for shellfish harvesting.



ACTIVITY - FINANCIAL	STATUS
Funding Opportunities	2/27/20 May River Watershed Action Plan Advisory Committee recommended a Stormwater Utility Fee increase to \$150 for Council's consideration for Tax Year 2020. <i>Council unanimously adopted \$115 SWU Fee and NPDES-related Fees on 6/9/20. Staff submitted a full proposal on 6/24/20, for May River 319 Grant Phase 5 - Bridge Street Retrofit for stormwater treatment for \$179,900 grant funds.</i>
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	<i>Completed Buck Island/Simmons Road (BIS) Phases I, II, III, IV; Toy Fields; and Jason/Able. Six project phases of Historic District sewer extension are proposed in the 5-year Capital Improvement Program. 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>
Stoney Creek Wetlands Restoration: Preliminary Design Phase	Project on hold following Council direction on 5/31/17.
May River Watershed Water Quality Model	Contract awarded to McCormick Taylor with final deliverables anticipated 8/20.
ACTIVITY - PROGRAMS	STATUS
Public Outreach/Participation/Involvement (MS4 Minimum Control Measures #1 & 2)	Outreach and involvement efforts continue through county-wide partnership with Carolina Clear as Lowcountry Stormwater Partners - Neighbors for Clean Water, through local cleanups, civic group presentations, and the May River Watershed Action Plan Advisory Committee. <i>Current updates are included in Engineering Consent Agenda and Attachment 3.</i>
Infrastructure Mapping/GIS (MS4 Minimum Control Measure #3)	Data points continue to be collected with new development to meet MS4 requirements & populate water quality model. <i>Current updates are included in Engineering Consent Agenda Attachment 4a.</i>

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



PUBLIC NOTICE

THE MAY RIVER WATERSHED ACTION PLAN ADVISORY COMMITTEE (WAPAC)

Meeting scheduled for

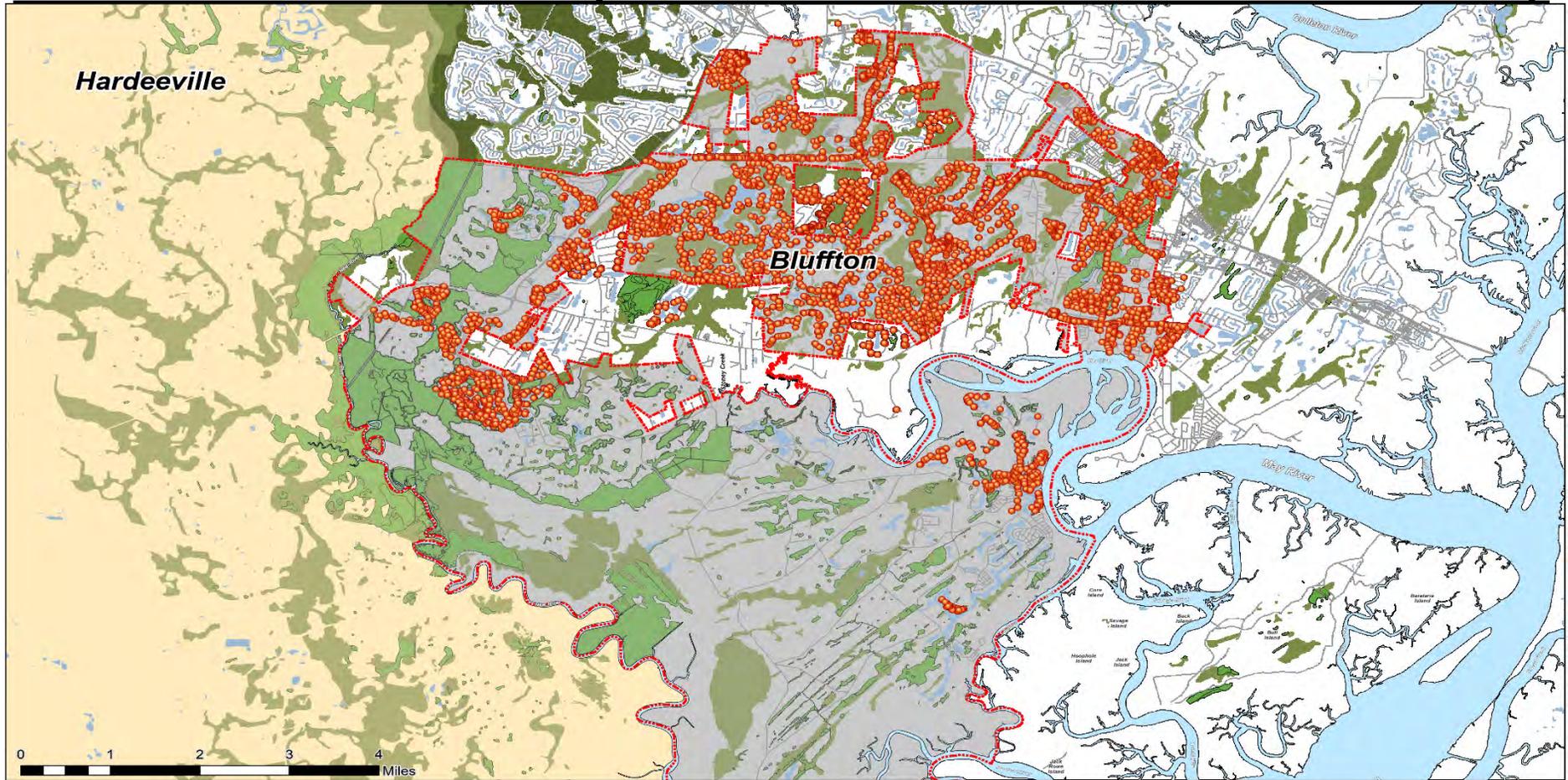
Thursday, June 25, 2020 at 9:00 A.M.

has been CANCELED
due to lack of agenda items

The next meeting is scheduled for
Thursday, July 23, 2020

If you have questions, please contact
Watershed Management at: 843-706-4500

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

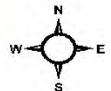


- SW STRUCTURE
- TOWN OF BLUFFTON
- WETLAND
- SW PIPE
- BEAUFORT COUNTY
- WATER
- JASPER COUNTY
- ROADS

Town of Bluffton
Beaufort County, SC

STORMWATER INFRASTRUCTURE

BLUFFTON, SOUTH CAROLINA
STORMWATER INFRASTRUCTURE INVENTORY
THIS MAP WAS PREPARED BY THE TOWN OF BLUFFTON, SOUTH CAROLINA, IN COOPERATION WITH THE BEAUFORT COUNTY HEALTH DEPARTMENT AND THE BEAUFORT COUNTY WATER UTILITIES DEPARTMENT. THE TOWN OF BLUFFTON, SOUTH CAROLINA, IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY APPEAR IN THIS MAP.

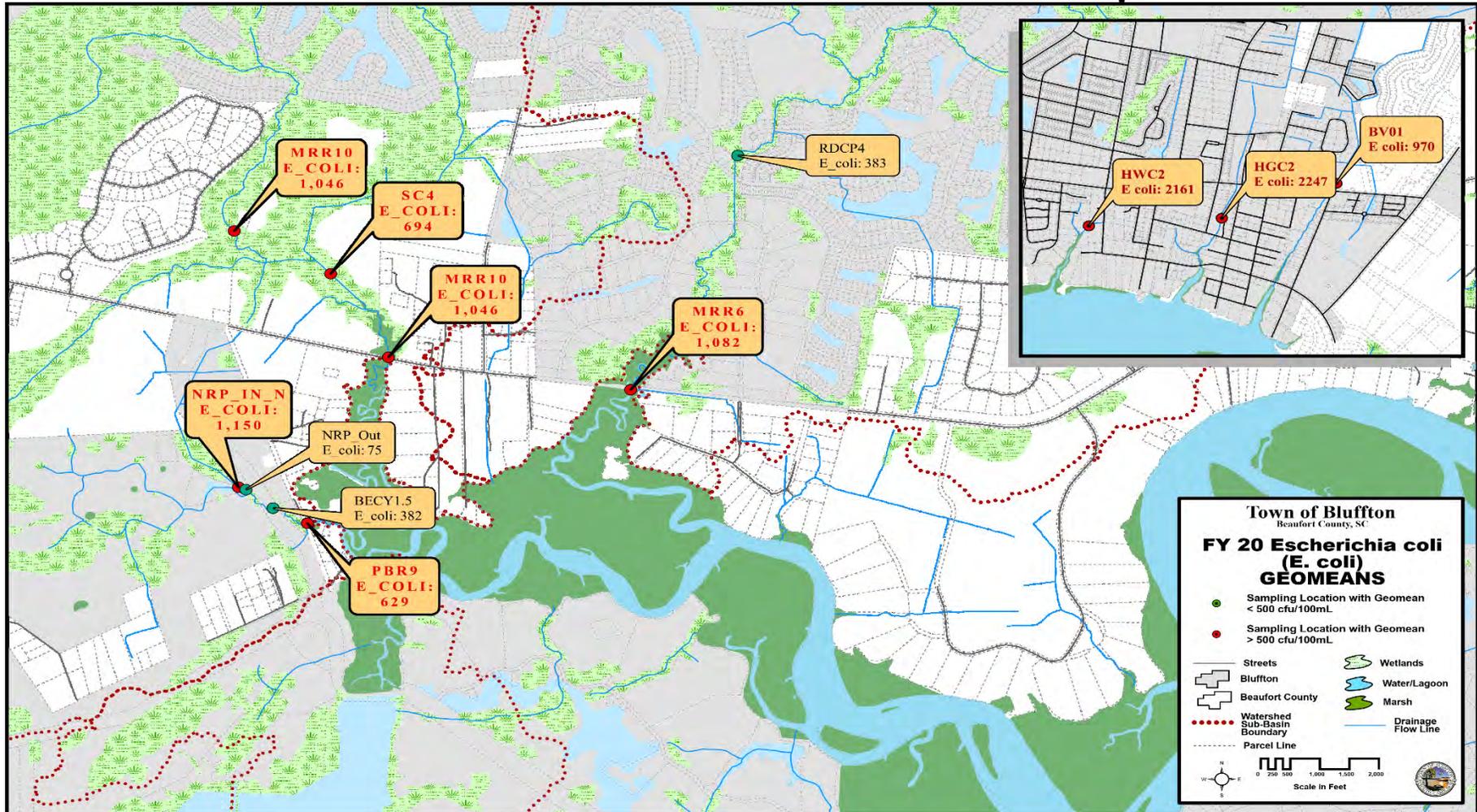


Updated Date: 6/24/2020

Stormwater Infrastructure Inventory Collection Status

FY 2020 YTD Collection Totals	4,878
FY 2019 Collection Totals	2,925
FY 2018 Collection Totals	3,777

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



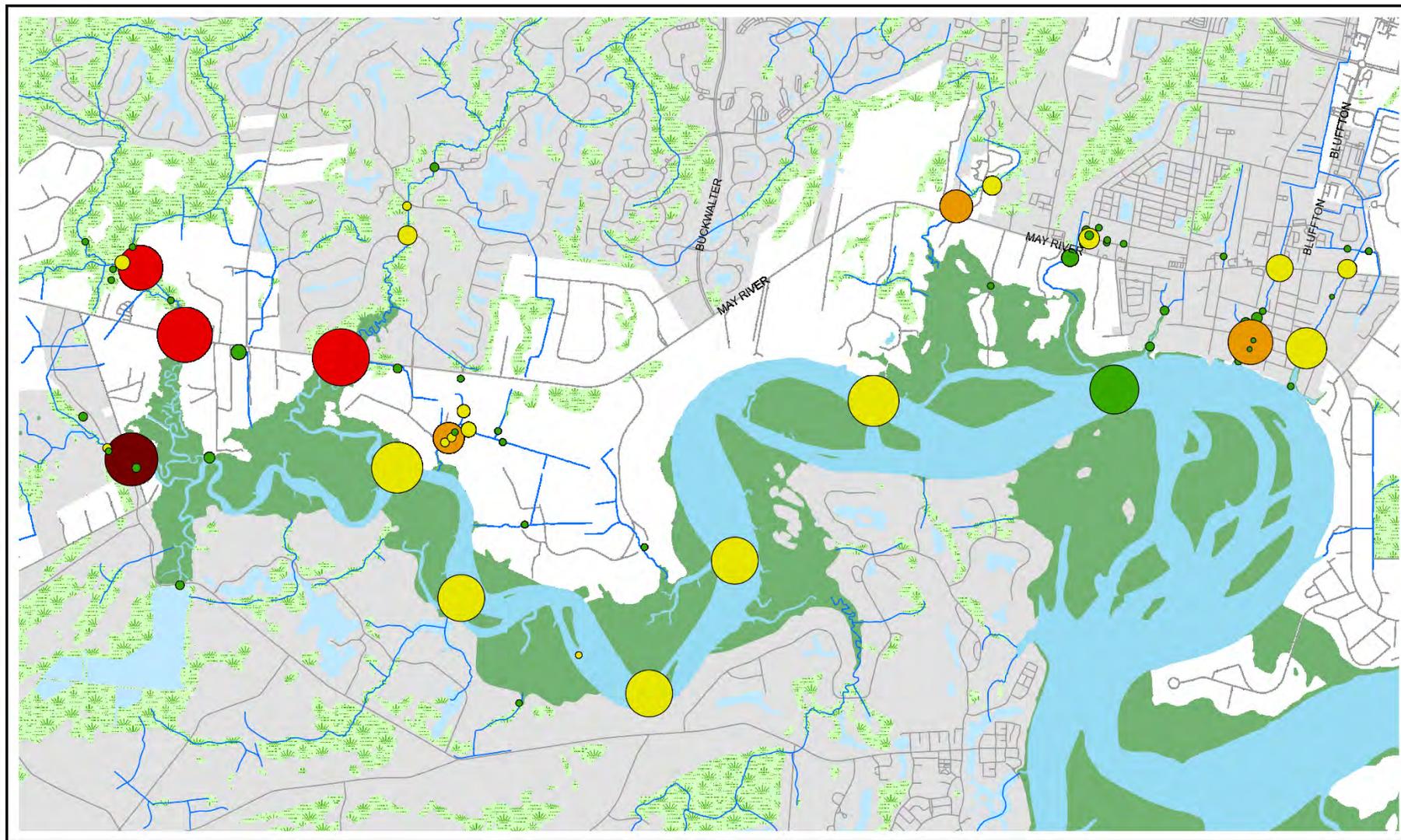
E coliform geomeans updated as of: 6/24/2020

	USCB Water Quality Samples	Microbial Source Tracking Samples	MS4 Quarterly Samples Collected
FY 2020 YTD Totals	223	115	123
FY 2019 Totals	280	193	264
FY 2018 Totals	216	217	224
FY 2017 Totals	307	179	224

6/24/2020

- MST program began November 2016; MS4 Quarterly Sampling initiated 2/2017
- Totals include only samples submitted for laboratory analysis, and not *in situ* parameters.

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



 Town Jurisdiction
 Beaufort County
 Drainage Flow Lines

Positive Hits
 0  1-3  3-6  6-9  >10

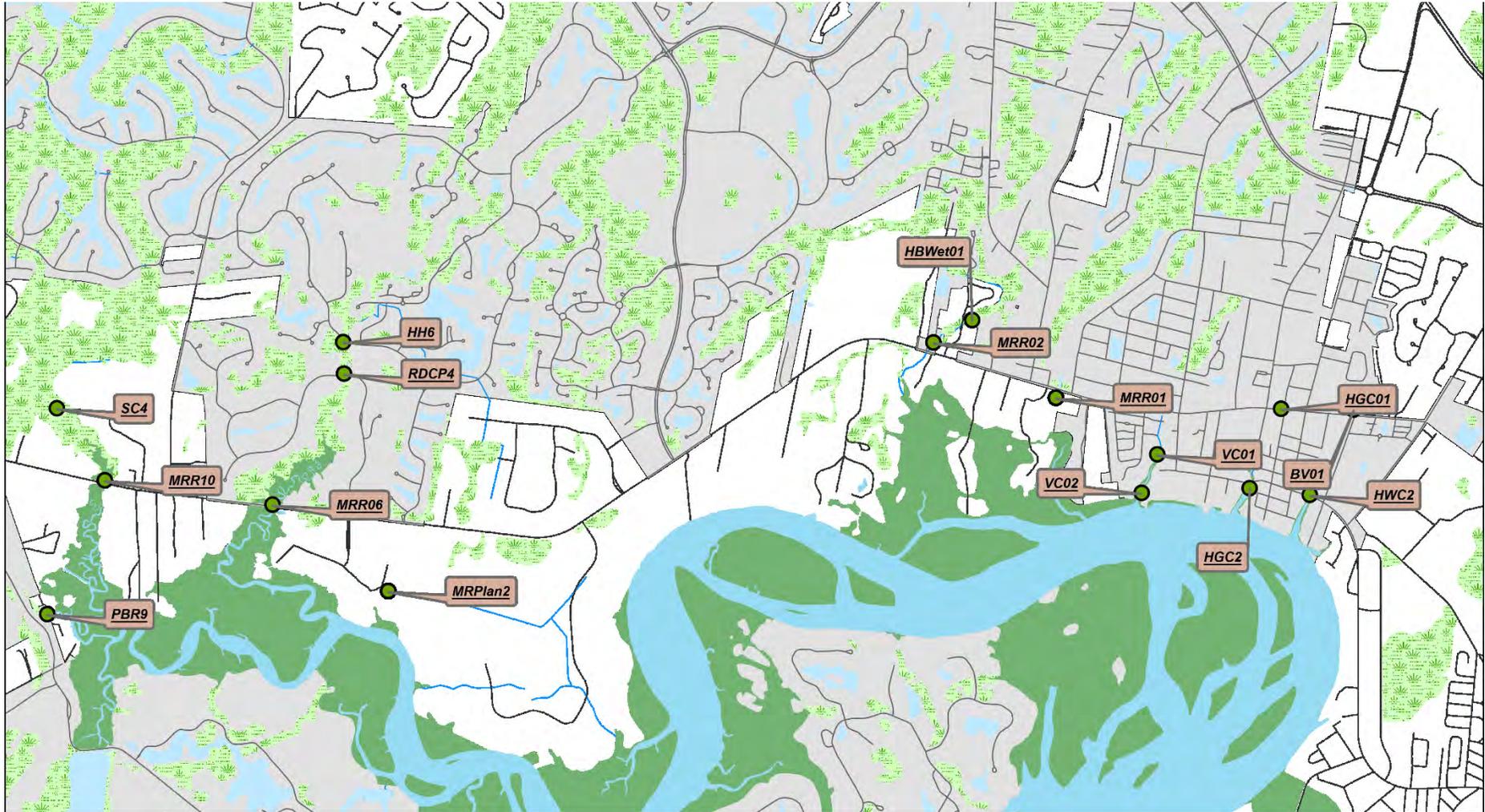
Times Sampled
 1-3  4-6  7-10  >10

Size of dot correlates to # of times the site has been sampled.

Updated Date: 6/24/2020



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



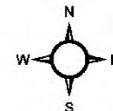
- Microbial Sources
- MST Sampling Location Without Detection
- Flowline
- Street
- Town Jurisdiction
- County Jurisdiction

MICROBIAL SOURCE TRACKING RESULTS

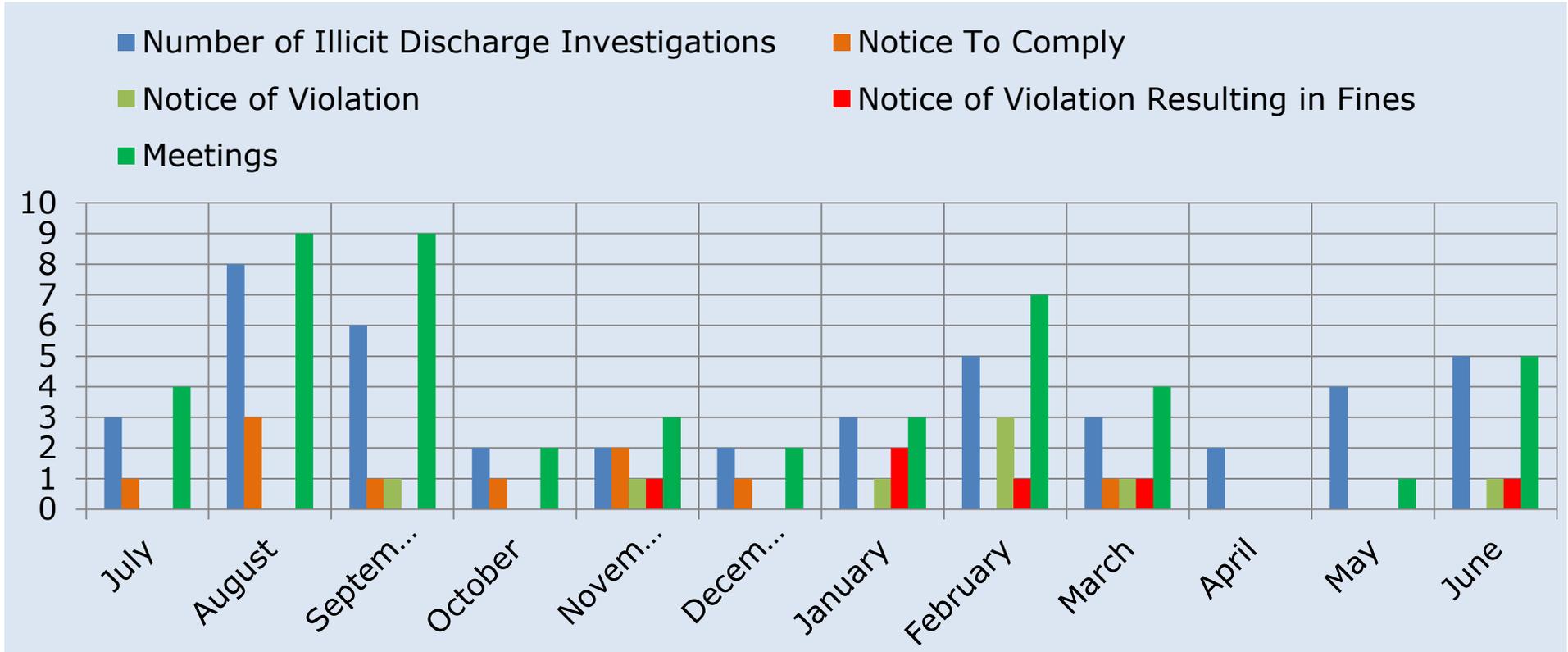
Sampling Date 4/16/2020

Town of Bluffton
Beaufort County, SC

Bluffton, SC is a coastal town in Beaufort County, South Carolina. The town is located on the Bluffton River, which is a tributary of the Beaufort River. The town is known for its historic architecture and scenic views of the water. The town is also home to the Bluffton Golf and Country Club, which is one of the most prestigious golf courses in the South. The town is a popular destination for tourists and is known for its beautiful beaches and historic sites.

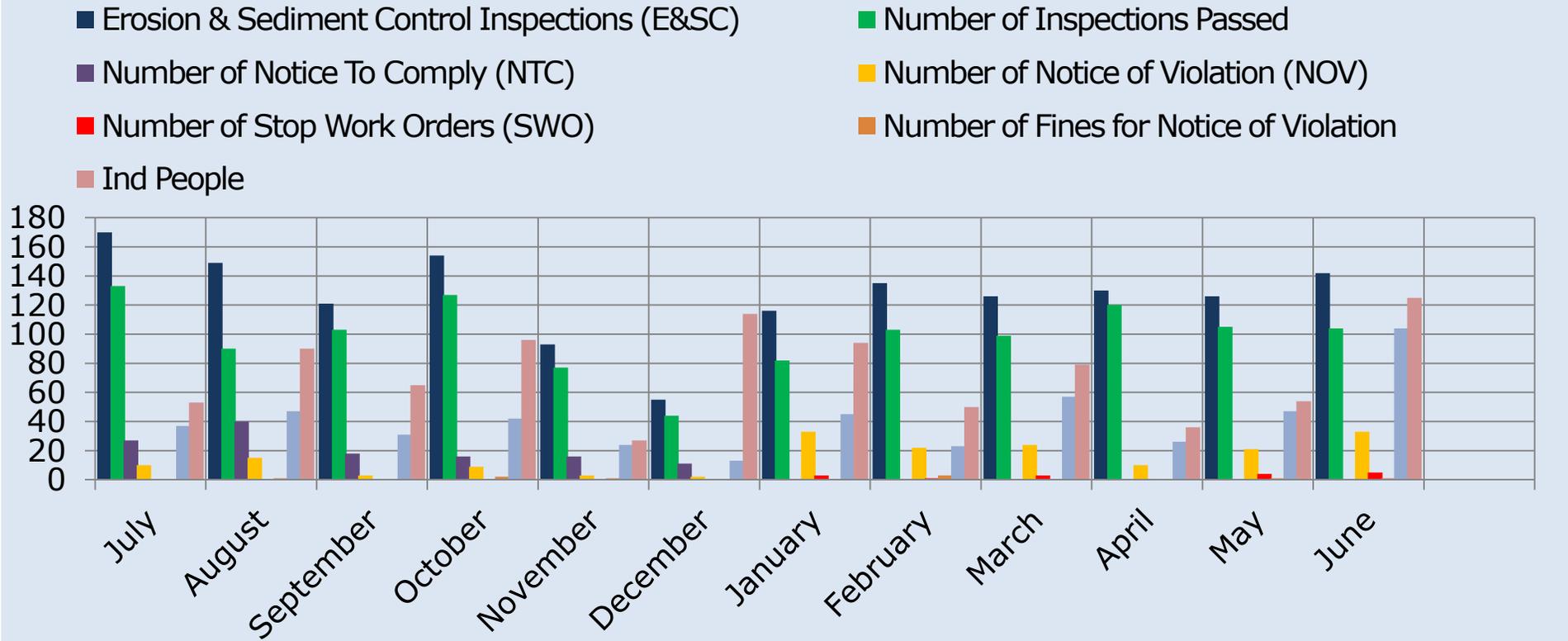


MS4 Minimum Control Measure #3 – IDDE: Illicit Discharge Investigations



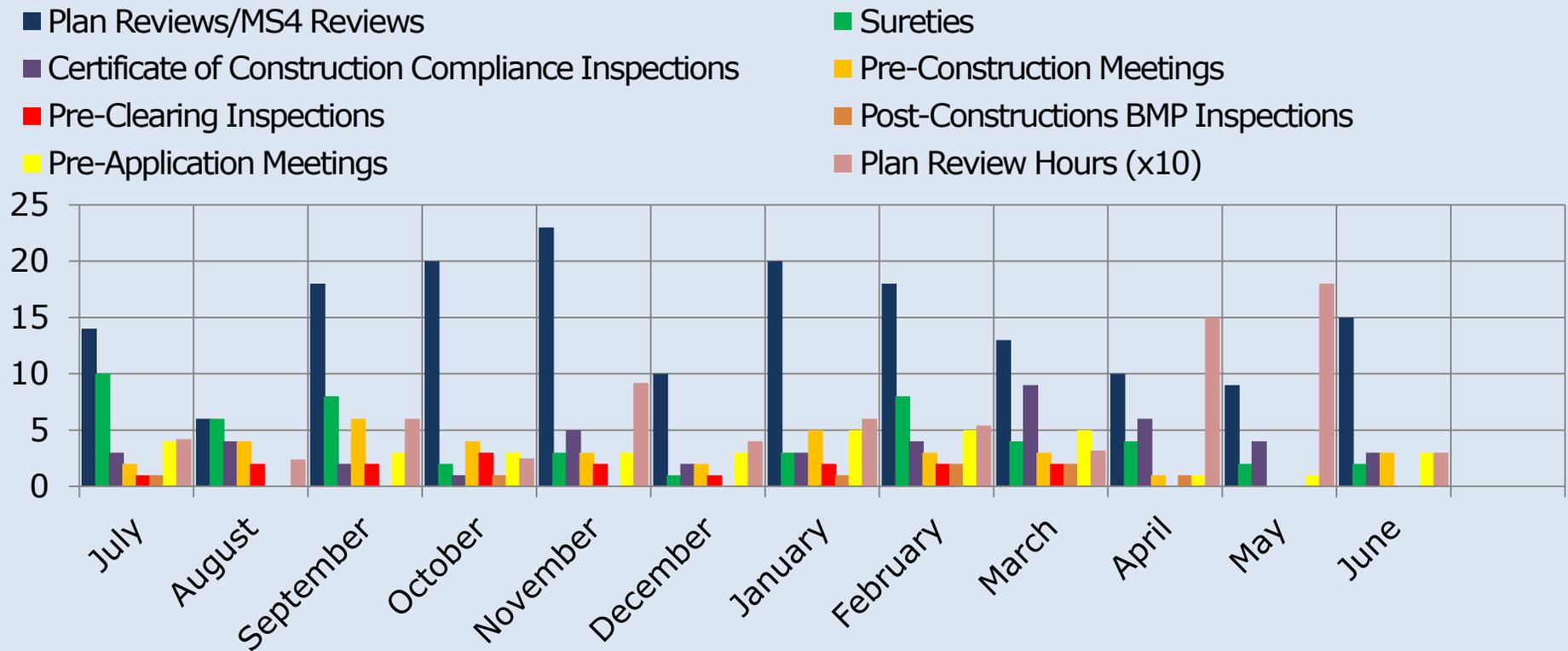
	Number of Illicit Discharge Investigations	Number of Notices To Comply Issued	Number of Notices of Violation Issued	Number of NOV Enforcement Actions	Number of Meetings
FY 2020 YTD Totals	45	10	8	6	49
FY 2019 Totals	38	20	3	1	61
FY 2018 Totals	48	20	4	2	60

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



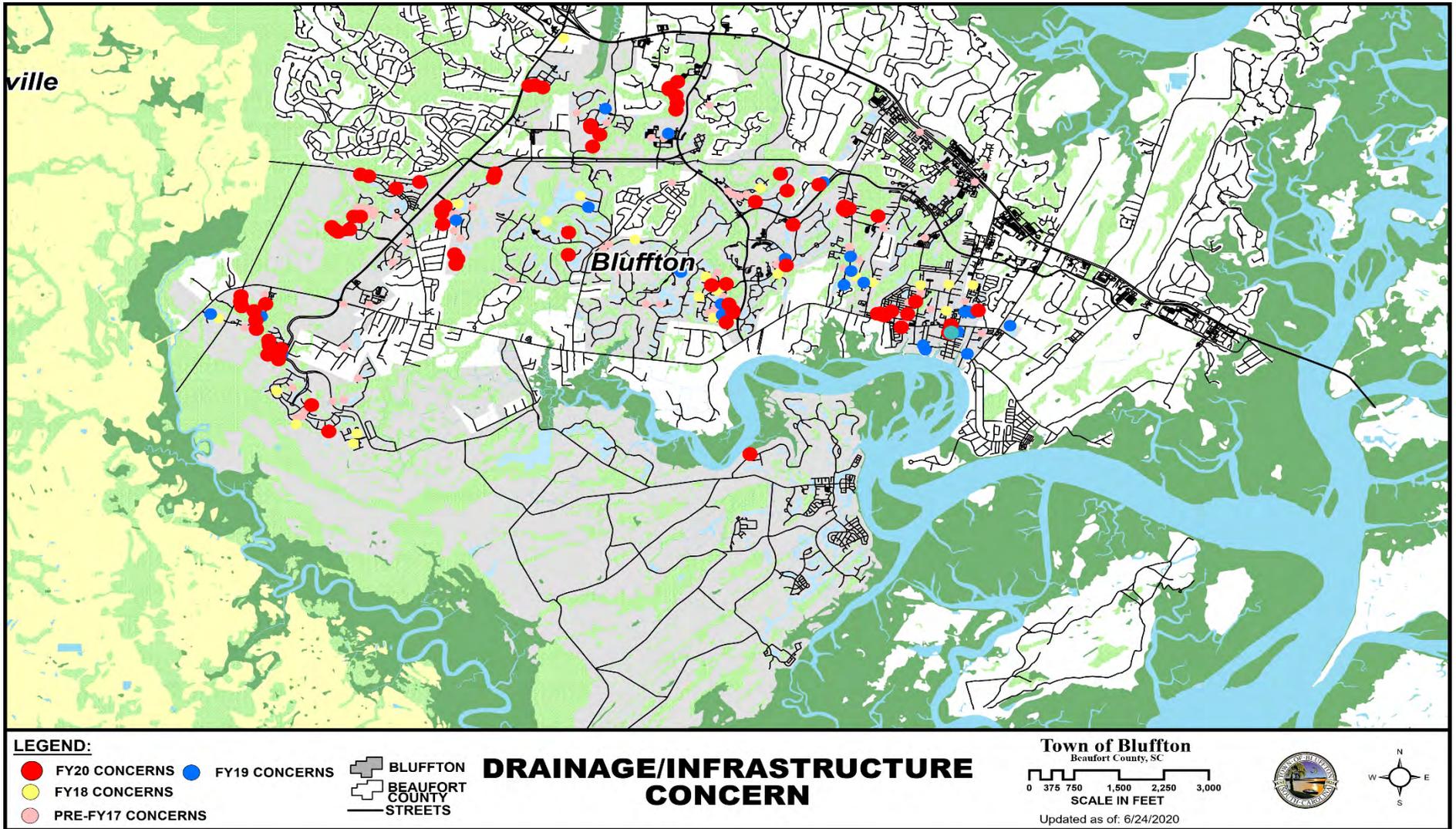
	Number of Sediment & Erosion Control Inspections	Number of Inspections Passed	Number of NTC Issued	Number of NOVs Issued	Number of SWO Issued	Number of NOV Enforcement Actions	Number of E&SC Meetings
FY 2020 YTD Totals	1,517	1187	128	185	16	9	496
FY 2019 Totals	1,688	1,384	254	72	N/A	7	403
FY 2018 Totals	1,504	1,159	300	83	N/A	10	499

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



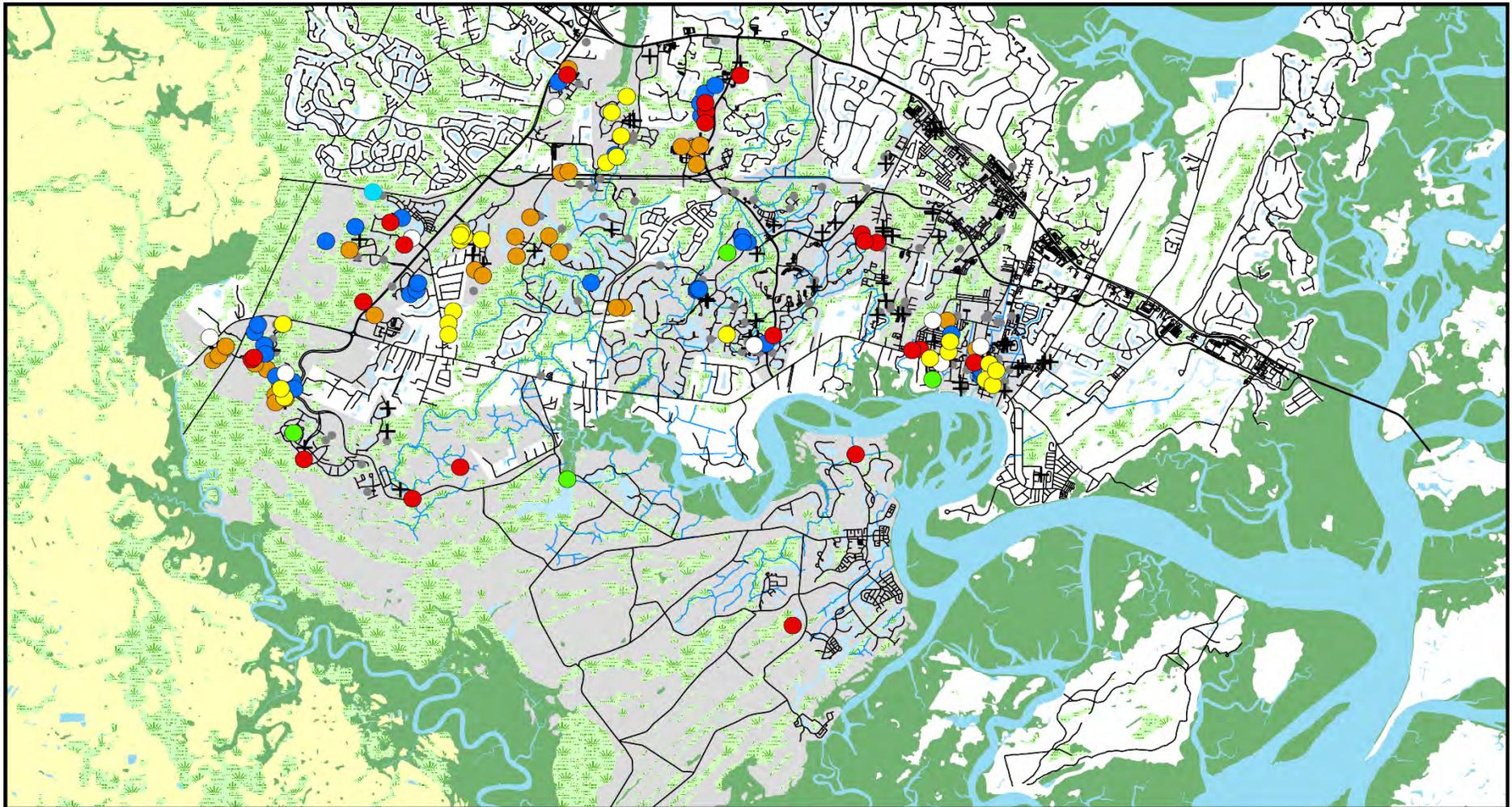
	Plan Reviews MS4 Reviews	Sureties	Certificate of Construction Compliance Inspections	Pre-Construction Meetings	Pre-Clearing Inspections	Post Construction BMP Inspections	Pre-Application Meetings	Total Plan Review Hours
FY 2020 YTD Totals	176	53	46	36	17	8	36	789 Hrs.
FY 2019 Totals	208	52	53	47	37	27	63	1,040 Hrs.
FY 2018 Totals	242	59	50	32	32	88	88	1,210 Hrs.

Citizen Drainage, Maintenance and Inspections Concerns Map



	Number of Drainage Concerns Investigated	Number of Meetings
FY 2020 YTD Totals	68	76
FY 2019 Totals	54	59
FY 2018 Totals	48	75

Citizen Request for Watershed Mngt. Services & Activities Map



LEGEND:

- IDDE
- EROSION
- DRAINAGE/
FLOODING
EDUCATION/
OUTREACH
- INFRASTRUCTURE/
MAINTENANCE
OTHER
- OTHER
- + FY 2019 Reports
- FY 2018 Reports
- BLUFFTON
- BEAUFORT
COUNTY
- STREET

Town of Bluffton
Beaufort County, SC

0 375 750 1,500 2,250 3,000
SCALE IN FEET

Updated Date: 6/24/2020

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

DISCLAIMER:
This map was prepared by the Watershed Management
Department of the Town of Bluffton, South Carolina.
It is intended to provide a general overview of the
data and is not intended to be used for legal purposes.
The Town of Bluffton makes no warranty, expressed
or implied, as to the accuracy, completeness, or
reliability of the information contained herein. The
information is provided for informational purposes only.
All rights reserved. No part of this publication may be
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electronic, mechanical, photocopying, recording, or
by any information storage and retrieval system.

	Number of Citizen Requests Investigated	Number of Meetings
FY 2020 YTD Totals	99	102
FY 2019 Totals	75	79
FY 2018 Totals	53	82

Week	# of Activities	Labor Cost	Equipment Cost	Other Cost	Total
FY20WK1	65	\$1,311.00	\$209.00	\$0.00	\$1,520.00
FY20WK2	89	\$2,547.00	\$878.00	\$0.00	\$3,425.00
FY20WK3	81	\$3,321.00	\$975.00	\$559.00	\$4,856.00
FY20WK4	40	\$2,396.00	\$803.00	\$0.00	\$3,199.00
FY20WK5	63	\$2,051.00	\$388.00	\$0.00	\$2,439.00
FY20WK6	75	\$2,566.00	\$622.00	\$0.00	\$3,187.00
FY20WK7	81	\$2,939.00	\$1,172.00	\$0.00	\$4,112.00
FY20WK8	71	\$3,059.00	\$3,013.00	\$0.00	\$6,072.00
FY20WK9	56	\$1,643.00	\$2,099.00	\$243.00	\$3,985.00
FY20WK10	8	\$810.00	\$483.00	\$0.00	\$1,293.00
FY20WK11	83	\$3,456.00	\$2,856.00	\$73.00	\$6,385.00
FY20WK12	66	\$3,824.00	\$4,161.00	\$0.00	\$7,985.00
FY20WK13	41	\$1,758.00	\$2,001.00	\$0.00	\$3,760.00
FY20WK14	50	\$3,555.00	\$3,619.00	\$1,677.00	\$8,851.00
FY20WK15	59	\$3,461.00	\$3,222.00	\$2,034.00	\$8,717.00
FY20WK16	48	\$3,200.00	\$1,682.00	\$207.00	\$5,090.00
FY20WK17	51	\$3,479.00	\$2,386.00	\$0.00	\$5,865.00
FY20WK18	68	\$4,041.00	\$3,823.00	\$0.00	\$7,863.00
FY20WK19	53	\$3,002.00	\$1,903.00	\$0.00	\$4,904.00
FY20WK20	41	\$2,392.00	\$1,519.00	\$0.00	\$3,911.00
FY20WK21	77	\$3,811.00	\$3,216.00	\$84.00	\$7,112.00
FY20WK22	50	\$2,058.00	\$1,226.00	\$49.00	\$3,333.00
FY20WK23	59	\$2,791.00	\$1,746.00	\$0.00	\$4,538.00
FY20WK24	82	\$3,176.00	\$3,354.00	\$83.00	\$6,613.00
FY20WK25	92	\$3,539.00	\$3,140.00	\$30.00	\$6,709.00
FY20WK26	47	\$1,457.00	\$766.00	\$0.00	\$2,223.00
FY20WK27	54	\$2,350.00	\$1,281.00	\$181.00	\$3,813.00
FY20WK28	80	\$4,488.00	\$3,468.00	\$347.00	\$8,303.00
FY20WK29	87	\$3,466.00	\$2,985.00	\$114.00	\$6,566.00
FY20WK30	68	\$3,077.00	\$3,470.00	\$180.00	\$6,728.00
FY20WK31	66	\$3,883.00	\$2,581.00	\$0.00	\$6,464.00
FY20WK32	53	\$4,675.00	\$3,580.00	\$671.00	\$8,927.00
FY20WK33	66	\$3,666.00	\$2,802.00	\$107.00	\$6,575.00
FY20WK34	77	\$3,440.00	\$2,978.00	\$0.00	\$6,419.00
FY20WK35	79	\$3,426.00	\$4,112.00	\$0.00	\$10,148.00
FY20WK36	87	\$3,222.00	\$1,966.00	\$0.00	\$5,429.00
FY20WK37	106	\$4,471.00	\$2,567.00	\$0.00	\$7,338.00
FY20WK38	16	\$1,538.00	\$891.00	\$0.00	\$2,430.00
FY20WK39	42	\$2,727.00	\$1,239.00	\$51.00	\$4,018.00
FY20WK40	39	\$2,918.00	\$2,513.00	\$83.00	\$5,514.00
FY20WK41	43	\$4,562.00	\$3,913.00	\$0.00	\$8,475.00
FY20WK42	66	\$4,981.00	\$3,187.00	\$82.00	\$8,250.00
FY20WK43	50	\$4,797.00	\$3,458.00	\$0.00	\$8,255.00
FY20WK44	58	\$6,642.00	\$3,841.00	\$168.00	\$10,651.00
FY20WK45	44	\$5,106.00	\$1,947.00	\$303.00	\$7,356.00
FY20WK46	80	\$5,742.00	\$3,464.00	\$80.00	\$9,287.00
FY20WK47	58	\$4,917.00	\$3,491.00	\$0.00	\$8,408.00
FY20WK48	47	\$4,585.00	\$3,152.00	\$150.00	\$7,886.00
FY20WK49	72	\$5,638.00	\$4,867.00	\$0.00	\$10,505.00
FY20WK50	44	\$5,239.00	\$2,689.00	\$0.00	\$7,928.00
FY20WK51	51	\$5,586.00	\$3,496.00	\$0.00	\$9,082.00
FY20WK52	73	\$3,182.00	\$976.00	\$0.00	\$4,159.00
Total	3202	\$179,967.00	\$126,176.00	\$7,556.00	\$316,861.00

**Stormwater Utility Board Meeting
Town of Hilton Head Island
Report for March - June 2020**

1. MS4 Update (EBER/SCHUMACHER)

MCM1 Public Education & Outreach	<ul style="list-style-type: none"> Completed updates to stormwater page on Town's website (waiting on IT to update).
MCM2 Public Involvement & Participation	<ul style="list-style-type: none"> Permeable Pavement Workshop Planning is being rescheduled due to COVID. Planned Activity: Meeting with LSP about Healthy Pond workshop within a PUD (Indigo Run/Port Royal) August 20th.
MCM3 Illicit Discharge Detection & Elimination	18 H2O quality monitoring sites tested & analyzed 3 Complaints received via Code Enforcement 3 Investigated 3 Eliminated or resolved
MCM4 Construction Site SW Runoff Control	23 Plan reviews w/ corrections required 144 Plan reviews approved 51 Utility Permits 19 Active permitted construction sites 202 Inspections completed 7 NOV issued
MCM5 Post-Construction SW Management	<ul style="list-style-type: none"> 5 PCBMP inspection this quarter. All of 2016 – 2017 PCBMP have been updated and vetted for inspection. All 2017 PCBMP were updated and vetted in February. Employed Cartegraph for primary channel inspections.
MCM6 Pollution Prevention/Good Housekeeping	<ul style="list-style-type: none"> CD PP/GH presentation are scheduled for August. PP&F will be scheduled for July.

PCBMP inspections include:

- Memo to the PCBMP owner with the annual inspection date and reporting date and the tasks necessary for the inspection report
- A signed permanent stormwater maintenance and responsibility agreement.
- A copy of the PCBMP maintenance plan.
- A typical inspection checklist for the PCBMP facility(s).
- A copy of the As-Built plans.

2. Service Requests (LADD)

A. March - June 2020 Service Request Activity:

- New requests: 57 184 (FY20 to date)
- Requests closed: 27 84 (FY20 to date)

B. Open Requests as of June 29, 2020:

- Open Qualifying: 159
 - Public (28)
 - Private* (131) ** Located in residential POAs with current maintenance agreements*
- Open Enforcement 6
 - IDDE (3)
 - Other (3)
- Open Referrals 40
 - County (16)
 - SCDOT (24)

C. Service Request Totals as of June 29, 2020:

- Open: 323 change in last 4 months: +36
- Closed: 1015 change in last 4 months: +21
- Total: 1338 change in last 4 months: +57

3. Major Capital Improvements Update (NETZINGER)

A. Jarvis Creek SW Pump Station - Electrical System Rehabilitation

Major improvements including raising elevation of emergency power cutoff switch boxes, replacement of the electrical distribution system, transfer switches, control systems, transducers, floats, and installing safety improvements. Work is being done by BRW Construction (the Town's on-call contractor for pump station maintenance). Notice to Proceed: July 2019; Project completed in March 2020. Total Cost: \$1,446,028.

B. Lawton (Sea Pines) SW Pump Station - Pump Mount Repairs

Pump chamber wall-mount system reconstructed by BRW in June. One of three pump overhauls complete; the other 2 are currently being overhauled. One pump has been reinstalled and is fully operational with backup power currently provided using a rented GENSET.

C. Lawton (Sea Pines) SW Pump Station – Electrical System Rehabilitation

An electric system assessment was completed by Chatham Engineering in November 2019. The assessment report recommended replacement of all major components of the electrical system due to age. Final design for replacing the pump station's electrical system is complete. *Negotiating final scope and costs for the project with BRW. Permitting and Sea Pines ARB review underway; anticipate issuing NTP in July.*

4. Pump Station and Routine Maintenance Projects (LADD)

A. Completed in March 2020 (\$64,000)

- Pump Station Projects (\$64,000)
 - Lawton Canal Pump Station – Pump 2 Repairs (\$64,000)
- Work shelf/Access Clearing Projects (\$0)
 - None
- Routine Channel Maintenance Projects (\$0)
 - None

B. Completed in April 2020 (\$41,500)

- Pump Station Projects (\$0)
 - None
- Work shelf/Access Clearing Projects (\$35,000)
 - Old Woodlands Channel
 - Bermuda Pointe Channel
- Routine Channel Maintenance Projects (\$6,500)
 - Yacht Cove Outfall
 - Sparkleberry Ditch
 - Folly Field Drainage System
 - Airport Outfall
 - North Ridge Culverts

C. Completed in May 2020 (\$37,700)

- Pump Station Projects (\$15,000)
 - Lawton Canal Pump Station – Pump 2 Pull (\$15,000)
- Work shelf/Access Clearing Projects (\$2,000)
 - Airport Outfall
- Routine Channel Maintenance Projects (\$20,700)
 - Jarvis Creek Section 1
 - Jarvis Creek Section 2
 - Wexford Channel
 - Wexford Pump Station

D. Completed in June 2020 (\$13,200)

- Pump Station Projects (\$9,000)
 - Shipyard Pump Station – Cabinet Heater Installation (\$5,700)
 - Wexford Pump Station – TVSS Unit Replacement (\$3,300)
- Work shelf/Access Clearing Projects (\$0)
 - None
- Routine Channel Maintenance Projects (\$4,200)
 - Haig Point Channel
 - Carolina Isles Outfall

E. Underway (\$448,000)

- Pump Station Projects (\$448,000)
 - Lawton Canal Pump Station – Electrical Upgrade Design (\$16,000)
 - Lawton Canal Pump Station – Pump 1 & 3 Repairs (\$72,000)
 - Lawton Canal Pump Station – Temporary Generator Rental (\$33,000)
 - Lawton Canal Pump Station – Repairs & Upgrades Phase 1 (\$270,000)
 - Lawton Canal Pump Station – New Generator Procurement (\$57,000)
- Work shelf/Access Clearing Projects (\$0)
 - None
- Routine Channel Maintenance Projects (\$0)
 - None

F. Planned for July 2020 (\$6,800)

- Pump Station Projects (\$0)
 - None
- Work shelf/Access Clearing Projects (\$0)
 - None
- Routine Channel Maintenance Projects (\$6,800)
 - Palmetto Headlands Channel Sections 1 & 2
 - Shipyard Pump Station

G. Future Projects (Planning)

- Pump Station Projects
 - Lawton Canal Pump Station – Repairs & Upgrades Phase 2
- Work shelf/Access Clearing Projects
 - Planters Row Channel Section 1
 - Ashmore Channel
 - Dianah's Drive Ditch
 - Arrow Road Ditches
 - Power Alley Catch Basin
- Routine Channel Maintenance Projects
 - Sparkleberry Channel
 - Otter Creek Channel
 - The Oaks Channel
 - Mathews Drive Channel Section 2
 - Marshland Road Outfall
 - Victoria Square Channel

5. CIP and Maintenance Projects (UYESUGI)

Summary

Project Totals

FY20 Budgeted	37	budget total: \$ 960 K
FY19 Roll-forward	16	budget total: \$ 361 K
Contingency Projects	<u>27</u>	
	80	budget total: \$1,321 K

Projects by Status

Complete (29)			<u>FY20 Actual</u>
Budgeted	13	budget total: \$253 K	\$336.4 K
Contingencies	15		\$174.9 K
Reimbursed	<u>1</u>	budget total: \$100 K	<u>\$100.0 K</u>
	29		\$582.3 K
Active (5)			
Budgeted	2	budget total: \$156 K	
Contingencies	3		
Design Phase (5)			
Budgeted	4	budget total: \$132 K	
Contingencies	1		
Programmed (17)			
Budgeted	9	budget total: \$ 67 K	
Contingencies	8		
On-hold	12	budget total: \$350 K	
Eligible for Reimbursement	5	budget total: \$119 K	
Canceled	<u>7</u>	budget total: \$144 K	
	80	budget total: \$1,321 K	

Public Projects

DESCRIPTION	LOC	Budget*	Cat**	STATUS	Actual*	Notes
1014 William Hilton Parkway - Drainage System Improvements	XN	30	B	CANCELED		SCDOT issue
54 Shamrock Circle/Cobia Court - Drainage System Improvements	XN	70	B	DESIGN		Survey underway, Design to follow; BC will install pipe; THHI will clean outfall
71 Widewater Road/Muddy Creek - Channel Maintenance	XN	12	B	ON HOLD		Easement/Legal Issue
Northridge Theater - Drainage System Improvements	XN	80	B	ON HOLD		Easement needed
103 North Forest Beach Drive - Channel Maintenance	XN	10	B	ON HOLD		Needs further investigation
104 Cordillo Pkwy (Cordillo Courts) - Drainage System Improvements	XN	35	B	DESIGN		Design/Easement/Permit needed
55 New Orleans Road - Channel Maintenance	XN	15	B	COMPLETE (Q4)	8.0	Town completed work behind 55 New Orleans and within Shipyard Plantation
30 Mathews Drive (Tabby Walk) - Pipe Cleaning/Channel Maintenance	XN	15	B	COMPLETE (Q4)	10.4	Cleaned pipe from parking lot to pond, including removal of sediment from pond at pipe
Gateway Circle at Summit Drive - Channel Maintenance	XN	7	B	COMPLETE (Q4)	9.5	
4 Indigo Run Drive (Preserve, Villa 623) - Channel Maintenance	XN	6	B	COMPLETE (Q1)	20.3	
400 William Hilton Parkway - The Oaks Pathway Flooding	XN		C	DESIGN		Design needed
Jarvis Creek Pump Station - Box Culvert Cleaning	XN		C	COMPLETE (Q2)	2.8	
92 Main Street – Pipe Replacement	XN		C	COMPLETE (Q4)	20.8	Emergency due to Street Flooding; Hargray – Partial Reimbursement
Folly Field Channel – Pipe Installation (Moonshell Rd to Island Club)	XN		C	Q4		Cost estimate: 50K
North Forest Beach Dr near Oceanwood Trace (lower inlet top & regrade ditch)	XN		C	Q4		Cost estimate: 3K
316 Squire Pope Rd – Pipe Cleaning (Barnwell Pasture ditch outfall @ pathway)	XN		C	Q4		Cost estimate: 2K
Lemoynes - Pond Structure Modifications	XN		C	Q4		Design needed for modifications
21 Castnet Drive (Chaplin Park) - Sinkhole Repair	XN		C	COMPLETE (Q4)	6.4	
23 Moonshell Road / 72 Folly Field Rd / Island Club – Structure & Outfall Pipe	XN	29	R	COMPLETE (Q4)	37.8	Malphrus \$31.8K SE Pipe \$6K
83 Old Wild Horse Road - Drainage Improvements	XN	15	R	DESIGN		Survey/Design needed

* Thousands of dollars

** B=FY20 budgeted; R=FY19 roll-forward; C=contingency

Maintenance Agreement Projects

DESCRIPTION	LOC	Budget*	Cat**	STATUS	Actual*	Notes
Pine Island - Beach Renourishment	HH	100	B	N/A		Reimbursement
3 & 7 Conservancy Court - Pipe Replacement	HH	25	B	Q4		
151 Seabrook Drive-Cygnets Ct-Sweetbay Lane - Pipe Replacement	HH	2	B	CANCELED		SR closed. No issue.
37 Deerfield Road – Ditch Excavation & Pipe Replacements	HH	22	R	ON HOLD		Waiting on POA for approval
5 Blackgum Place – Cleaning, CCTV and Point Repairs	HH		C	ACTIVE		CCTV completed, point repairs needed
245 Seabrook Drive Weir Gate	HH		C	Q4		Need quote
9 Bobcat Lane - Sinkhole Repair	HH		C	COMPLETE (Q2)	2.6	
7 Jingle Shell Lane - Pipe Replacement	HH		C	COMPLETE (Q2)	63.9	
53 Aberdeen Court - Sinkhole/Point Repair	IR	4	B	Q4		
29 Primrose Lane - Channel Maintenance	IR	8	B	Q4		Related to SR 1240
1 Sunningdale Lane - Channel Maintenance	IR	12	B	COMPLETE (Q1)	22.9	
Santee Cooper Lagoon Outfall Channel & Weir - Channel Maintenance	IR	60	B	CANCELED		No excavation needed
4 Drummond Lane (Santee Cooper Outfall)- Channel Cleaning	IR	24	R	CANCELED		No excavation needed
6 Wheeler Lane - Indigo Run Weir	IR		C	COMPLETE (Q2)	10.1	
2 Long Brow Road - Sinkhole/Point Repair	LC	5	B	Q4		Need to investigate- DNQ?
48 Heath Court West - Point Repair/Pipe Cleaning	LM	10	B	ACTIVE		CCTV completed, point repairs needed
Dinghy Lane - Sinkhole Repair	PD	11	B	N/A		Potential reimbursement
Flotilla - Sinkhole Repair	PD	12	B	N/A		Potential reimbursement
2 High Rigger - Sinkhole Repair	PD	10	B	N/A		Potential reimbursement
1 Long Boat - Sinkhole Repair	PD	11	B	N/A		Potential reimbursement
29 Starboard Tack - Pipe Replacement	PD		C	Q4		

* Thousands of dollars

** B=FY20 budgeted; R=FY19 roll-forward; C=contingency

Maintenance Agreement Projects, continued

DESCRIPTION	LOC	Budget*	Cat**	STATUS	Actual*	Notes
25 Lenox Ln to 19 Clyde Ln Lagoon - Pipe Cleaning/System Maintenance	PH	146	B	ACTIVE		Diver investigation complete; lagoon excavation underway
32 Tucker Ridge Court - Sinkhole Repair	PH		C	COMPLETE (Q2)	9.7	
16 Barnacle Road - Pipe Cleaning & Channel Maintenance	PR	3	B	Q4		Low priority
16 Coquina Road - Pipe Cleaning & Channel Maintenance	PR	3	B	Q4		Low priority
16 Donax Road - Pipe Cleaning & Channel Maintenance	PR	3	B	Q4		Low priority
24 Suttlers Row - Sinkhole	PR	3	R	CANCELED		Sinkhole filled in: need to re-budget
24 & 26 Audubon Place - Pipe Jetting	PR	1	R	Q4		
77 Fort Walker Drive - Outfall Pipe Repair	PR		C	COMPLETE (Q2)	1.3	
Shelter Cove Lane at Chamber of Commerce Dr- Sinkhole	SC		C	COMPLETE (Q2)	3.8	
Galleon Fairway Flooding - Culvert Replacement	SH	12	R	DESIGN		Culvert replacement at golf cart path
13 Barcelona Road - Building 700 (Port O'Call)	SH	5	R	CANCELED		DNQ - Not in easement
130 Shipyard Drive (Sonesta) - System Cleaning	SH	15	R	COMPLETE (Q4)	45.5	
12 Valencia Road/ Cottages at Shipyard - Sinkhole Repair	SH	30	R	COMPLETE (Q2)	24.1	
Sonesta Outfall System Drainage Improvements (Relief Channel)	SH		C	COMPLETE (Q4)	7.6	
63 Shipyard Dr (Shipmaster) – Pipe Cleaning/Replacement & Channel Cleaning	SH		C	ACTIVE		
Lawton Pump Station Outfall Gate - Weir Gate Repair	SP	3	B	ON HOLD		Plan to complete after pump station is rehabilitated
Mizzenmast Lane/Lighthouse Lane Intersection - Pipe Replacements	SP	100	B	ON HOLD		Cleaning and CCTV complete; CCIP delayed due to lack of hydrant & SS access (SIPSD)
232 South Sea Pines Drive (Salty Dog) - Channel Maintenance	SP	12	B	COMPLETE (Q4)	34.9	
9 Pender Lane (Off of Lawton Canal Rd) - Control Structure Repair	SP	10	B	COMPLETE (Q4)	4.5	
405 Greenwood Drive - Channel Maintenance	SP	10	B	ON HOLD		CSA requesting OCRM permit
6 Scaup Court - CIPP Reimbursement	SP	20	R	CANCELED		House on top of pipe- DNQ

* Thousands of dollars

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Maintenance Agreement Projects, continued

DESCRIPTION	LOC	Budget*	Cat**	STATUS	Actual*	Notes
Lighthouse Lane - Clean & CCTV	SP	15	R	ON HOLD		After pipe replacement is complete; no hydrant access (SIPSD – will not allow)
14 South Beach Lane - Pipe Replacement	SP	15	R	COMPLETE (Q4)	23.4	
40 Sand Fiddler Road - Control Structure Replacement	SP	15	B	ON HOLD		CSA lowered the priority
149 Lighthouse Road (Bubbler) - Drainage System Improvements	SP	75	B	N/A		Reimbursement with inspections
Lawton Canal Road - Channel Maintenance	SP	18	B	ON HOLD		CSA requesting OCRM permit
35 Baynard Park Road (Weir Gate) - Control Structure Repair	SP	7	B	COMPLETE (Q2)	4.2	
38 Canvas Back Road - Pipe Replacement	SP	60	R	ON HOLD		CSA working to secure rights to access pipe via covenants
Ruddy Turnstone Drainage Improvements	SP	80	R	COMPLETE (Q2)	87.0	
Sand Hill Crane Road - Cleaning and CCTV (Emergency)	SP		C	COMPLETE (Q3)	13.2	
11 Sand Hill Crane Road Structure Repair (Emergency)	SP		C	COMPLETE (Q3)	12.0	
16 Sand Hill Crane Road – Pipe Replacement	SP		C	COMPLETE (Q4)	15.2	
135 Lighthouse Road – Pipe Point Repairs (Emergency Repair)	SP		C	COMPLETE (Q4)	4.6	
232 South Sea Pines Drive (Salty Dog) – CCTV & Pipe Replacement (Emergency)	SP		C	ACTIVE		
33 Battery Road – Pipe full of roots	SP		C	Q4		
4 Snowy Egret Road (Beach Walk #25) Pipe Replacement	SP		C	Q4		
2 Fairfax Lane - Pipe Cleaning & Device Removal	WE	5	B	ON HOLD		WQ device; can this be removed to clean pipe?
Primary Channel - Wexford Powerline/RV Park Ditch	WE	15	R	Q4		Access verified in Feb
Wexford Pump Station Debris Removal	WE		C	COMPLETE (Q3)	1.2	

* Thousands of dollars

** B=FY20 budgeted; R=FY19 roll-forward; C=contingency

6. **Inventory & Modeling Program (NETZINGER)**

A. **Mitchelville/Palmetto Hall Study (FY18 Budgeted Watershed)**

The consultant (Woolpert) completed the report in November of 2019. The study identified several locations where capital improvements were likely to improve systemic deficiencies identified via modeling of the system. The Town presented the results of the study to Town residents during a community meeting held at Town Hall on Monday, February 10, 2020. *Final Deliverables submitted to the Town in March; project is complete.*

B. **Lower Jarvis Creek Study (FY19 Budgeted Watershed)**

The Town is utilizing Woolpert to conduct a study of the Lower Jarvis Creek Watershed. The study involves collecting data for the existing stormwater system in the field, and identifying infrastructure deficiencies and flood hazards. The study area includes portions of William Hilton Parkway, Wild Horse Road, Gum Tree Road, Spanish Wells Road and Jonesville Road and within portions of the Indigo Run Community. Fieldwork was completed on February 28th. The Town conducted a community meeting at Town Hall on Monday, February 10, 2020 to engage the public and solicit feedback from residents. The project is scheduled to be complete by September 2020. *Status meeting scheduled for late July.*

C. **Squire Pope/HH Plantation/Port Royal/Point Comfort Model 2D Conversions**

The Town is utilizing Woolpert to revise and update models developed in previous studies from 1D to 1D/2D and to develop inundation maps for each watershed (GIS shapefiles). *Woolpert submitted preliminary results to the Town in April. Meeting to discuss scheduled for July 10.*

D. **South Forest Beach/Lawton Creek Study (FY20 Budgeted Watershed)**

The Town will utilize an on-call consultant to study this watershed once we have the on-call contracts in place. We anticipate work beginning on this project in August of 2020.

7. **Other Activities / Items of Interest (NETZINGER)**

A. **New Hire- Stormwater Engineer**

We are happy to announce that the SWU welcomed its newest member, Christina Martin, to the team this spring. Christina replaced Alexis Cook as our Stormwater Engineer on April 6, 2020. She has dual bachelor's degrees in Environmental Engineering and Environmental Science from the University of Vermont and worked most recently for a Federal government contractor at Fort Stewart, Georgia as a Wastewater, Drinking Water & Storm Water Specialist.

B. **Current RFQ – Stormwater Modeling On-call Services**

The Town issued an RFQ for ID/IC stormwater inventory and modeling services in January. The selected firm or firms will be utilized to study various watersheds on the Island identified in the Modeling Program which is programmed to be completed in FY2026. Close date was February 11th. Eight submittals were received and are currently under review. The Town anticipates selecting consultants in early July.



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



September 9th, 2020

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:

Remaining project milestones to be completed:

 - o CWP final presentation to the Board, scheduled for today's September 9th meeting.
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.
3. Special presentation suggestions –
 - Suggestions for Future Meetings?
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.
 - Gentry Locke continues to do research on delinquent fees.
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.

Monitoring Update

1. Lab Update (From Dr. Alan Warren and Lab Manager Danielle Mickel)
 - i. No information was available at the time of this report.

Stormwater Related Projects

1. Easements – Staff is working on easement requests and meets monthly to review status. A few condemnations are still being pursued using outside legal counsel.
2. Complaints – Staff continually works numerous drainage related complaints each month.
 - a) Flyover bridge preventative maintenance and deferred maintenance repairs – Last update: Consultant working on preliminary design and permitting. Consultant is proceeding to apply for the wetland/critical area permit from the state & federal agencies.
 - b) Shell Point Community Meeting –Cranston Engineering has finalized the field drainage inventory work and are now working on creating a model for the region.
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) – Construction on-going and estimated to be 60% complete.
4. Factory Creek Watershed Regional Detention Basin “Phase II” (Design Cost = \$63,390, Tree Mitigation Cost is pending, Construction Cost by the Developer) – Construction on-going and estimated to be 80% complete.
5. Graves Property / Pepper Hall Public / private partnership – Engineer has submitted conceptual Stormwater Permit plans for roads and infrastructure on the Graves Property. Staff is waiting for Stormwater Master Plan for Graves Property. Engineer is currently working on obtaining all other required permits. Site visit with Mr. Graves on August 21st.
6. Whitehall property purchase – County staff met to review the conceptual Stormwater masterplan for the property with the engineer on June 1st, 2020. No further updates at this time.
7. US 278 “super street” widening on Jenkins Island (Windmill Harbor area) – No update at this time.
8. Lady’s Island Plan, Sea Level Rise, and “no-fill” ordinance – Draft Beaufort County Sea Level Rise Taskforce recommendations were received on June 1st, 2020. Draft ordinance

recommendations were provided to staff on June 26th. Staff met with Sea Level Rise Task force group August 13th and 25th to provide recommendations and feedback. Task force is still meeting but anticipated implementation first round of recommendations on January 1, 2021.

Professional Contracts Report

1. CIP FY 18 Grouping Stormwater Projects – (Design - Ward Edwards \$202,000, Andrews Engineering \$560,490, Const. est. \$5,512,900) – All projects are in early design phase.
 - a) Salt Creek and Shanklin Road – 30% Design submittal under review. Right-of-way acquisition areas being assessed and Notice to property owners affected by project work and property acquisition requirements being finalized. Notification to residents mailed, very little response received.
 - b) Brewer Memorial – SCDOT has approved County request for pipe diversion and consultant is preparing final design and permitting. Consultant contacting Clemson Extension for possible educational partnership.
2. Evergreen Regional Pond 319 grant project – (Design=\$89,286, Construction=\$590,000. Grant=\$229,124) – 100% Design submittal.
3. RFQ for Stormwater engineering consulting services was advertised on May 25th, 2020. RFQ closed on June 30th, 2020. Staff received 10 proposals for review. Evaluation and discussion of proposals occurred on August 7th, 2020. After the selection committee interviewed the top two consultants, Woolpert was chosen on August 27th. The contract award goes for approval at the September 14th Public Facilities meeting, then to County Council on September 28th.

Regional Coordination

1. Town of Bluffton and Beaufort County Joint meetings on Sanitary Sewer in the May River watershed – Beaufort County Legal department has provided a memo stating Stormwater Utility fees must be limited in scope to only be used to fund the utility's programs, services, systems, and facilities. Any use for this project will need to fall within the limitations provided above.
2. Mossy Oaks Task Force –An MOU with the City was approved by County Council on May 26th, 2020.
3. Charleston Area MS4 managers group – No update at this time.
4. May River Watershed Modeling – See municipal reports for more information.
5. Port Royal Sound Conservation Working Group – No additional update at this time.

Municipal Reports

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

MS4 Report

1. Plan Review – [See the attached chart](#) for Beaufort County Stormwater staff plan review workload for the past 12 months.
2. Stormwater Permits – [See the attached chart](#) for Beaufort County Stormwater permits issued for the past 12 months.
3. Monthly Inspection summary - [See the attached chart](#) for Beaufort County Stormwater staff inspection, complaint, IDDE, and violations summary for the past 12 months.
4. Weather Station Data. [See the attached chart.](#)
5. Public Education – [See attached report.](#)
6. Energov permitting software – Staff met with Energov implementation team on August 24th to go over updates SoLoCo may require. Overall impact will be minimal to the work already done in the system. Energov staff is still working on the behind the scenes components of the software, which will require 1-2 more weeks to complete. Once that work has been finished, testing can begin. An updated timeline was asked for but was not given, however Energov staff still seemed confident with the November 2020 time frame.
7. MS4 Statewide General permit – No update at this time.
8. Statewide General permit for Construction – No update at this time.

**Stormwater Utility Board Meeting
Town of Hilton Head Island
Report for August 2020**

1. MS4 Update (EBER/SCHUMACHER)

<p>MCM1 Public Education & Outreach</p>	<ul style="list-style-type: none"> • Healthy Pond Series online webinar 8-19-2020, 33 people registered. • Changing Tides newsletter issued on 8-4-2020. Topic: Protecting Tidal Creeks with Buffers. • Brochure/Rack Card on Pond Maintenance in development (Clemson Comm. Dept. (8/20)
<p>MCM2 Public Involvement & Participation</p>	<ul style="list-style-type: none"> • Low Impact Development Lunch-and Learn with Clemson and LSP 8-19-2020. • Pet waste Outreach Plan Pledge.
<p>MCM3 Illicit Discharge Detection & Elimination</p>	<p>18 H2O quality monitoring sites tested & analyzed 2 Complaints received 1 Investigated with Code Enforcement 2 resolved</p>
<p>MCM4 Construction Site SW Runoff Control</p>	<p>9 Plan reviews w/ corrections required 23 Plan reviews approved 19 Utility Permits 19 Active permitted construction sites 70 Inspections completed 7 NOV issued</p>
<p>MCM5 Post-Construction SW Management</p>	<ul style="list-style-type: none"> • 1 PCBMP inspection this month. • All of 2016 – 2020 PCBMP have been updated and vetted (94 total as of 8-31-2020) • Employed Cartegraph for CRS primary channel inspections.
<p>MCM6 Pollution Prevention/Good Housekeeping</p>	<ul style="list-style-type: none"> • Presentations to Town staff given via virtual meetings including a quiz. • Community Development completed 7/3 & 8/7 • Facilities planned for September 2020

NPDES Permit Compliance Notes/Items of Interest

- Pond Management: Seven Town-owned ponds being treated and monitored for algae growth. The water temperature and the lack of rainfall within the ponds are making it very challenging to remove all of the algae growth.
- Received two Post Construction BMP (PCBMP) inspections reports from property owners. The Town has not received any BMP inspection reports from private property owners in the past.
- Cartegraph data now includes inspection reports that the Town has conducted and also includes the annual re-inspection date to help us comply with our NPDES permit obligations.
- Meeting with Hargray to discussing boring operational good housekeeping issues observed in the field. Agenda preparation underway; Action item for September 2020.

2. Service Requests (MARTIN)

A. August 2020 Service Request Activity:

- New requests: 10 20 (FY21 to date)
- Requests closed: 4 31 (FY21 to date)

B. Open Requests as of August 31, 2020:

- Open Qualifying: 291
 - Public (91)
 - Private* (200) ** Located in residential POAs with current maintenance agreements*
- Open Enforcement 7
 - IDDE (2)
 - Other (5)
- Open Referrals 41
 - County (18)
 - SCDOT (23)

C. Service Request Totals as of August 31, 2020:

- Open: 305 change in last 31 days: +7
- Closed: 1054 change in last 31 days: +2
- Total: 1359 change in last 31 days: +9

3. Major Capital Improvements Update (NETZINGER)

A. Lawton (Sea Pines) SW Pump Station – Electrical System Rehabilitation

An electric system assessment was completed by Chatham Engineering in November 2019. The assessment report recommended replacement of all major components of the electrical system due to age. Due to the magnitude of changes required, the need for flood-proofing, and the age of the facility, the project also includes demolition and replacement of the existing control building. Design for replacing the pump station's electrical system and the control building are complete.

- Contract
 - Prime: BRW Construction (utilizing current on-call services contract)
 - Town received final construction drawings and specifications in August
 - Construction schedule is being finalized (estimated length: 7 months)
 - Total construction cost: \$1.6 million.
 - NTP is anticipated on or about October 1, 2020
 - Estimated completion date: May 1, 2021.
- Permitting
 - Application submitted to Sea Pines ARB on 8/26
 - Town Community Development Permitting:
 - Application for a Minor DRP submitted on 8/26
 - Application for a Building Permit submitted on 8/31

4. Pump Station and Routine Maintenance Projects (LADD)

A. Completed August 2020 (\$13,500)

- Pump Station Projects (\$0)
 - None
- Work shelf/Access Clearing Projects (\$0)
 - None
- Routine Channel Maintenance Projects (\$13,500)
 - Otter Creek Channel
 - Sparkleberry Channel
 - Wexford Pump Station
 - Jarvis Creek Pump Station

B. Planned for September 2020 (\$45,500)

- Pump Station Projects (\$0)
 - None
- Work shelf/Access Clearing Projects (\$43,000)
 - Planters Row Channel Section 1
- Routine Channel Maintenance Projects (\$2,500)
 - Old Woodlands

C. Future Projects (Planning)

- Pump Station Projects
 - Lawton Canal Pump Station – Repairs & Upgrades Phase 2
 - Wexford Pump Station – Electrical Upgrades
 - Wexford Pump Station – Debris Screen Improvements
- Work shelf/Access Clearing Projects
 - Ashmore Channel
 - The Oaks Channel
 - Victoria Square Channel
 - Arrow Road Ditches
 - Power Alley Catch Basin
- Routine Channel Maintenance Projects
 - Mathews Drive Channel Section 2
 - Marshland Road Outfall

5. CIP and Maintenance Projects (UYESUGI)

A. Underway or Completed in August 2020

- 29 Starboard Tack – Pipe Replacement (PD)
- 61 S. Port Royal Drive – Sinkhole Repair (PR)
- Deerfield Road - Drainage Improvements (HHP)
- 63 Shipyard Drive – Shipmaster Channel Excavation (SH)

B. Planned for September 2020

- Deerfield Road - Drainage Improvements (HHP)
- 4 Snowy Egret/Black Skimmer Ln - Pipe Replacement (SP)
- 25 Lenox Lane & 19 Clyde Lane Lagoons – Sediment Removal (PH)
- Canvas Back Road Drainage Improvements (SP)
- 29 Primrose Lane – Sediment Removal (IR)
- 53 Aberdeen Court – Sinkhole Repair (IR)

C. Future Projects (Planning)

- 232 S. Sea Pines Drive – Pipe Replacement (SP)
- Cordillo Courts Drainage Improvements (XN)
- 3 & 7 Conservancy Court – Pipe Replacement (HHP)
- 5 Blackgum Place – Point Repairs (HHP)
- Wexford Power Line/RV Park – Sediment Removal (WE)

6. Inventory & Modeling Program (NETZINGER)

A. Lower Jarvis Creek Study (FY19 Budgeted Watershed)

The Town is utilizing Woolpert to conduct a study of the Lower Jarvis Creek Watershed. The study involves collecting data for the existing stormwater system in the field, and identifying infrastructure deficiencies and flood hazards. The study area includes portions of William Hilton Parkway, Wild Horse Road, Gum Tree Road, Spanish Wells Road and Jonesville Road and within portions of the Indigo Run Community. The project is scheduled to be complete by September 2020. *Status meeting held on August 27. GIS data received on August 31.*

B. Squire Pope/HH Plantation/Port Royal/Point Comfort Model 2D Conversions

The Town is utilizing Woolpert to revise and update models developed in previous studies from 1D to 1D/2D and to develop inundation maps for each watershed (GIS shapefiles). Woolpert submitted preliminary results to the Town in April. *Final deliverables to be submitted in September.*

C. South Forest Beach/Lawton Creek Study (FY20 Budgeted Watershed)

The Town will utilize an on-call consultant to study this watershed once we have the on-call contracts in place. *We anticipate work beginning on this project in November of 2020.*

D. North Forest Beach/Shipyard/Wexford Study (FY21 Budgeted Watershed)

The Town will utilize an on-call consultant to study this watershed once we have the on-call contracts in place. *We anticipate work beginning on this project in January of 2021.*

TOWN COUNCIL

STAFF REPORT

Engineering Department



MEETING DATE:	September 8, 2020
SUBJECT:	Engineering Department Monthly Report
PROJECT MANAGER:	Bryan McIlwee, Director of Engineering

CAPITAL IMPROVEMENTS PROGRAM (CIP) AND SPECIAL PROJECTS UPDATE

PATHWAYS

1. Goethe-Shults Sidewalks Phase 2

- Construction documents, permitting and easement acquisitions are underway.
- **Next Steps**
 - Complete easement acquisition, permitting and construction documents in October 2020.
 - Begin construction in January 2021.

2. Buck Island-Simmons ville Neighborhood Sidewalks and Lighting

- Phase 5 Kitty Road to 301 Buck Island Road, construction is underway.
- Phase 6A along Simmons ville Road from Grayco northward to Sugaree Drive is under design and permit review.
- Phase 6B along Simmons ville Road from Sugaree Drive northward to the existing New Mustang Road sidewalks is under design.
- **Next Steps**
 - Phase 5 from Kitty Road to lot 310 Buck Island Road inspection and permit closeout.
 - Phase 6 design and construction of the remaining Simmons ville Road sidewalks, to be completed in FY 2021-2022.

3. Bridge Street Streetscape

- Construction documents and permitting are underway for Phase 1 streetscape, Burnt Church Road to Calhoun Street. Staff reviewed 70% construction drawings and submitted review comments to Engineer.
- SCDHEC 319 grant application was awarded for \$179,700 for drainage and water quality improvements.
- Obtained geotechnical investigations / report and located Spectrum and Hargray utilities lines.
- **Next Steps**

- Complete engineering design and update street lighting plans.
- Prepare easement plats and appraisals and obtain easement and issue bid documents in FY 2021. Construction to start in FY 2022.

4. New Riverside Linear Trail

- FY 2021 parking, trail and signage improvements are complete.
- Installation of entry gate is complete.
- **Next Steps**
 - Begin planning and prepare a Conceptual Master Plan in FY 2022 pending budget approval.

SEWER & WATER

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

- Construction is substantially complete on Phase 5E Poseys Court.
- Construction contract for Phase 5A-D has been approved by Commerce.
- **Next Steps**
 - Begin 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

- Construction has started.
- **Next Steps**
 - Start house connections after the main line is approved by DHEC.

3. Historic District Sewer Extension Phase 2 - Bridge Street

- Received SCDHEC permit to construct.
- Continue negotiations with property owners for right of entry agreements.
- **Next Steps**
 - Obtain road ownership from SCDOT.
 - Advertise for bids.

4. Jason-Able Neighborhood Sanitary Sewer

- Construction has started on the sewer main to serve the additional lots fronting the May River Road.
- **Next Steps**
 - Complete construction and project closeout.

HISTORIC DISTRICT IMPROVEMENTS

1. Boundary Street Lighting

- Phase 2 photometric plans complete.
- Received Phase 2 encroachment permit from SCDOT.
- Lighting agreements approved by Town Council in May.

- Agreement has been executed by both parties.
 - Dominion Energy has reported delays in manufacturing and shipping of fixtures and poles.
 - **Next Steps**
 - Obtain easements as needed for Phase 2 street lighting.
 - Begin installation of street lighting in the late Summer 2020.
- 2. 184 Bluffton Road Renovations**
- Site work, landscaping, lighting and signage complete.
 - Parking Lot Rules signage has been installed.
 - **Next Steps**
 - Work with Greenery on maintenance of project.
- 3. Historic District Enhancements**
- Watershed Management Staff is evaluating survey data collected along Boundary Street to prepare drainage solutions at AME Church and Boundary and Lawrence Street intersections.
 - Traffic calming guidelines and plan are being negotiated with Engineer.
 - ADA ramps and crosswalks are being mapped in Cartegraph by GIS/IT.
 - **Next Steps**
 - Implement Stormwater Management features to address drainage issues in the area.
 - Continue planning of lighting, signage, crosswalks and ADA improvements.
- 4. Calhoun Street Streetscape**
- Conceptual Master Plan submitted to Town Council at Quarterly Workshop.
 - Met with Dominion Energy to discuss next steps for Powerline Burial.
 - **Next Steps**
 - Prepare a Request for Qualifications for Engineering Services and Post Solicitation.
 - Follow up meeting with Staff and Dominion Energy for secondary services options for planning of underground power.

PARK DEVELOPMENT

- 1. Oyster Factory Park**
- Garvin-Garvey exterior signage has been installed.
 - **Next Steps**
 - Submit ACOE and DHEC Permit application for installation of salvaged dock components from Calhoun Street.
 - Obtained draft Conceptual Master Plan and cost estimate from Witmer, Jones, Keefer.
 - Update Conceptual Master Plan options for playground, services access power service.
 - Begin final design of next phase of improvements per Town Council direction

provided at the Workshop.

2. **68 Boundary Street Park Renovations**

- Detectable warning mats replaced with ADA brick pavers.
- Temporary dedication sign complete and ready for installation. Awaiting date for park opening to finalize the permanent dedication sign.
- **Next Steps**
 - Install temporary dedication sign.
 - Fabricate permanent Martin Family sign prior to park dedication.

3. **Calhoun Street Dock and Public Riverfront Access Improvements**

- Began Construction of dock in May 2020.
- **Next Steps**
 - Complete construction of dock in early September 2020.

4. **Wright Family Park**

- Stairs to bulkhead boardwalk and beach are 100% complete.
- Site work construction began in January 2020. Bulkhead, boardwalk, restroom building, and parking area are substantially complete.
- Perimeter sidewalks and landscape are 85% complete.
- Site signage, and furniture are 80% complete.
- Interpretive signage design is underway.
- Water meters installed by BJWSA.
- Dominion lighting installed.
- **Next Steps**
 - Complete sidewalks, landscape, signage and lighting in September.
 - Install site furnishings and complete construction of the revised Calhoun Street plaza in September.
 - Install additional drainage in hammerhead area.
 - Install driveway/parking area and obtain CO for restroom building.
 - Prepare Change Order request for additional seating area and installation of cable handrail for extended portion of bulkhead adjacent to the dock.
 - Obtain construction documents for Squire Pope Cottage in second quarter of FY 2021.

5. **Oscar Frazier Park**

- Survey and design of perimeter sidewalks are complete.
- Obtained new bids for sidewalk construction on 2/24/20.
- **Next Steps**
 - Revised bids exceeded budget and sidewalk will be installed in FY 2021.

6. **Veterans Memorial**

- Project is complete.
- Engraved bricks have been installed.

- **Next Steps**
 - Install dedication plaque prior to dedication.

7. **New Riverside Barn/Park**

- Received initial Concept Plans from consultants in March.
- Requested additional design services from Hart Howerton and plans were reviewed on 6/24/20.
- Submitted grant application to LWCF for initial phase of the project.
- **Next Steps**
 - Hart Howerton to complete Conceptual Master Plan alternatives and Conceptual Architectural Plan for the barn renovation.
 - Present progress plans to Council at the October Workshop.
 - Complete construction drawings of Phase 1 development in FY 2021.
 - Phase 1 construction is anticipated to begin in FY 2022.
 - Prepare archeological report for site within the Barn Property.

TOWN FACILITIES AND MISCELLANEOUS PLANNING

1. **Buckwalter Place Multi-County Commerce Park**

- Site development and landscape plans for the LEC expansion are complete and sent to permitting agencies.
- Invitation for Bid was reissued for the LEC expansion site development and the contract was approved in August.
- Buckwalter Place Park and Veterans Memorial are complete.
- Exploring alternative irrigation source for park.
- **Next Steps**
 - Execute site development contract.
 - Continue infrastructure planning for the Town's future development parcels. Final design and construction pending clarification of project scope and FY 2021 budget approval.
 - Prepare RFP solicitations for architectural design for restroom facility at the new park.

2. **Town of Bluffton Housing Project**

- Surveying and geotechnical services complete for 1095 May River Road and 115 Bluffton Road sites.
- Evaluation and interviews of proposed joint venture partners are underway.
- **Next Steps**
 - Preparation of Joint Venture Partners Agreement.
 - Planning and design to begin in FY 2021.

3. **Ghost Roads**

- Surveying is underway for easement exhibits.
- Pritchard Street Quit Claim Deed exhibits are complete. The Town Attorney is working on finalizing the document with Beaufort County.

- 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.

DIVISION/STAFF UPDATES

Project Management

Thirty-two (32) CIP projects are currently in progress. Don Ryan Center, Veteran Memorial, Buckwalter Park and Phase 4 sidewalks have recently been completed. CIP projects including Wright Family Park, Calhoun Street Dock, BIS Phase 5E sewer and BIS Phase 5 sidewalks are currently under construction and nearing completion. The LEC Expansion, Pritchard Street Sewer, Jason Able Sewer Extension, BIS Phase 5A-D Sewer, and the Boundary Street Lighting projects are expected to start construction in the summer of 2020. The remaining CIP projects are in the design phase and ongoing.

Watershed Management

1. Southern Lowcountry Regional Board (SoLoCo)

a. Regional Southern Lowcountry Post Construction Stormwater Ordinance and Design Manual

- Via concurrence of the Mayor and direction by the Town Manager, staff has participated in the SoLoCo Technical Working Group to develop a regional stormwater model ordinance and design manual and investigate the viability of a regional stormwater authority.
- Final documents have been delivered and staff is conducting internal review for consistency with the Unified Development Ordinance prior to Legal Review.
- Status update presented on 7/28/20 to SoLoCo and requested a recommendation for adoption by each partner jurisdiction.
- **Next Steps**
 - 9/23/20 Planning Commission Public Hearing and recommendation to Town Council
 - 10/20/20 Town Council Workshop – For Information Only
 - 11/10/20 Town Council – 1st reading
 - 12/8/20 Town Council – Public Hearing and 2nd reading

b. Sea Level Rise Task Force

- Following Beaufort County's presentation and request for regional participation at the 10/22/19 SoLoCo meeting, staff is attending the Sea Level Rise Task Force meetings to discuss a possible No Fill Ordinance and county-wide sea level rise adaptation strategies.
- Meetings continue to discuss projected impacts of sea level rise on the region with a focus on ways that local government can respond through policies, ordinances and projects to mitigate the potential impacts of sea level rise.

- Internal staff reviews of draft documents completed and feedback provided to Task Force.
 - **Next Steps**
 - Beaufort County to present and request a recommendation from SoLoCo for regional partners to adopt.
- 2. Joint Councils Meeting for Watershed Management Initiatives**
- BJWSA developed their CIP list for FY 2020 sewer projects which does not include any projects in the County's jurisdiction in the May River Headwaters without cost-sharing.
 - Following the Joint Councils Meeting with BJWSA, held on 2/25/20, staff from Beaufort County and Town of Bluffton met to discuss sewer extension scope and strategy on 2/27/20.
 - Staff from the Town, County, and BJWSA met via Zoom 3/27/20 to confirm project scope, cost, and potential project manager. The last project cost estimate to extend, connect, and abandon septic in the Stoney Creek project area is \$4.7 million (B. Chemsak email 7/22/19) but they anticipate those numbers increasing to \$5.5 million. The proposal is 1/3 cost-share, so the Town's portion would be approximately \$1.83 million. Beaufort County has not formally agreed or committed any funding.
 - Neither BJWSA nor Beaufort County have committed funds in FY 2021 to begin sewer extension.
 - Town Manager, Director of Engineering and staff met with BJWSA General Manager, Engineer and staff on 6/5/20 to discuss how to move the project forward.
 - Staff to work with BJWSA staff to prepare Project Information Sheet to include scope, cost, cost-share, exhibits, and timeline for project implementation.
 - **Next Steps**
 - Staff is drafting a Memorandum of Agreement with Beaufort County and BJWSA to agree on project scope and cost-sharing.
- 3. SC Department of Health and Environmental Control May River Shellfish Harvesting Monitoring Data Year-to-Date and May River Shellfish Harvesting Status Exhibit – Attachments 1 and 1a**
- 4. May River Watershed Action Plan Implementation Summary - Attachment 2**
- 5. MS4 Minimum Control Measure (MCM) - #1 Public Education and Outreach, and MS4 MCM - #2 Public Participation and Involvement**
- Beaufort County Stormwater Utility Board meeting on 8/12/20 was canceled.
 - Staff presented at the Lowcountry Stormwater Partners (LSP) Consortium Healthy Ponds Series via Zoom on 08/20/20.
 - The May River Watershed Action Plan Advisory Committee was held virtually on 8/27/20. **Attachment 3**

6. **MS4 MCM – #3 Illicit Discharge Detection and Elimination**
 - Stormwater Infrastructure Inventory Map - **Attachment 4a**
 - *E. coli* Concentrations Trend Map - **Attachment 4b**
 - Monthly, Microbial Source Tracking (MST) Maps - **Attachments 4c and 4d**
 - 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, 19-24, and 19-16. SCDHEC conducted sampling on 08/24/20. Staff will notify Council and Senior Staff of any pertinent findings from this sampling event via email.
 - Town staff conducted MST sampling on 8/4/20 following Tropical Storm Isaias which delivered ~0.71 inches of rainfall to the Bluffton area. Sixteen (16) samples were collected from upstream and outfall sites. MST results are pending and any pertinent results will be shared with Town Council and Senior Staff via email.
 - Illicit Discharge Investigations – **Attachment 4e**
7. **MS4 MCM – #4 Construction Site Stormwater Runoff Control – Attachment 5**
8. **MS4 MCM – #5 Stormwater Plan Review and Related Activity – Attachment 6**
9. **MS4 MCM – #6 Good Housekeeping (Staff Training/Education)**
 - Staff attended NOAA’s Office for Coastal Resources “Virtual Public Meetings: Technical Assistance Hour” webinar on 8/12/20.
 - Staff attended SCDNR’s ACE Basin NERR Coastal Training Program’s “Using the SC Coastal LID Manual: Online Workshop” webinar on 8/19/20.
10. **Citizen Drainage, Maintenance, and Inspections Concerns Map – Attachment 7**
11. **Citizen Request for Watershed Management Services & Activities – Attachment 8**

Public Works

1. **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.

- Ongoing mowing of the New River side trail and field at New River barn.
- Beautification Program –Landscape Maintenance - ongoing routine.

2. Facilities

- Facilities and Parks Maintenance - ongoing routine.

3. Public Works Activities Report - Attachment 9

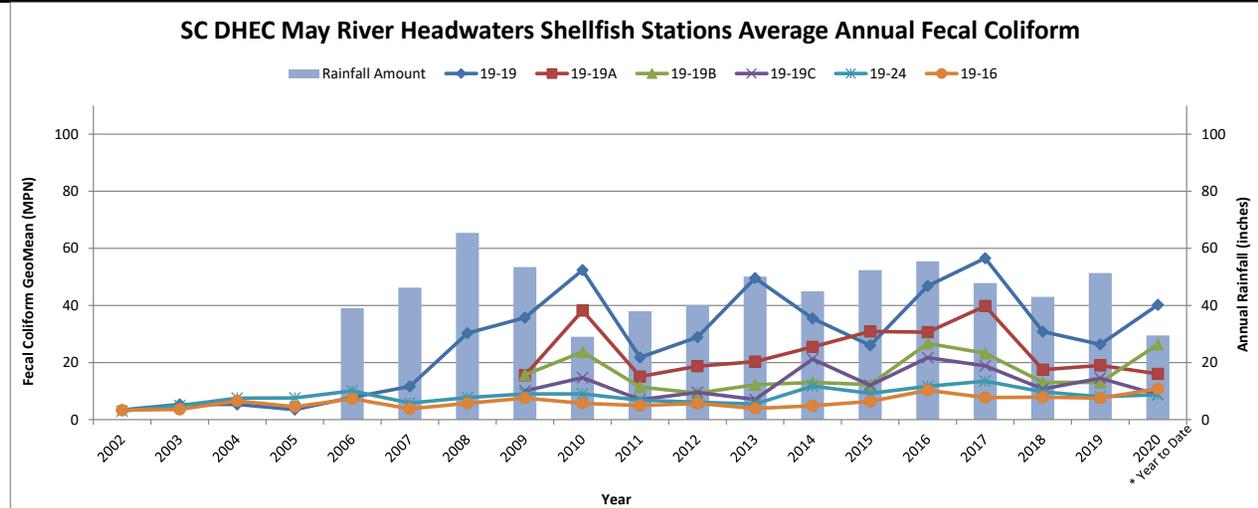
Attachments

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 Agenda
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. Beautification Committee Meeting Cancellation Notice
10. Public Works Activities Report

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

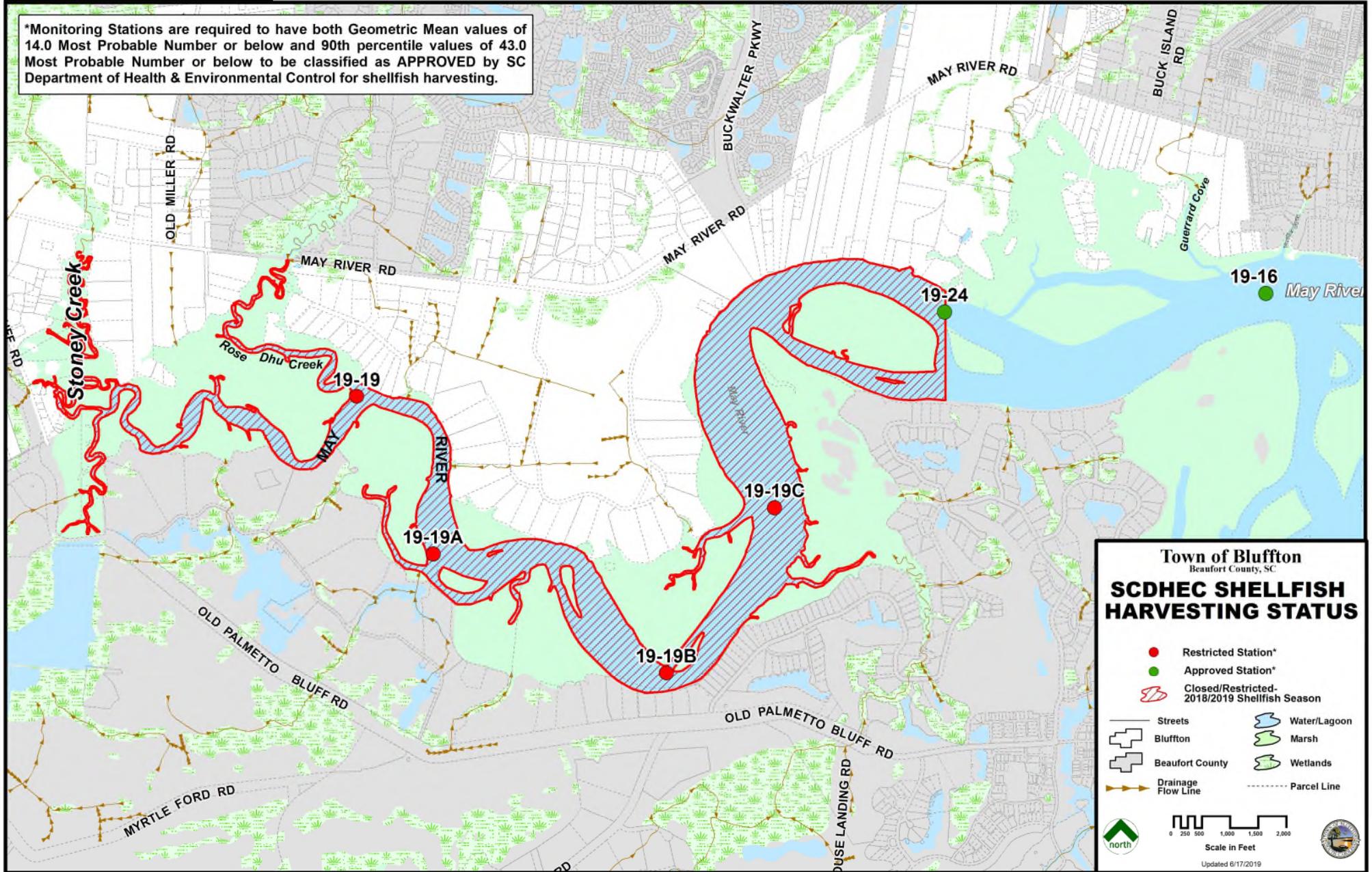
	19-19				19-19A				19-19B				19-19C				19-24				19-16			
	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020
	Fecal Coliform (MPN)																							
December	1600.0	79.0	170.0		920.0	49.0	33.0		540.0	33.0	140.0		240.0	46.0	33.0		220.0	23.0	13.0		49.0	21.0	110.0	
November	49.0	49.0	17.0		33.0	13.0	6.8		7.8	23.0	7.8		31.0	17.0	11.0		2.0	17.0	4.5		2.0	7.8	2.0	
October	22.0	79.0	7.8		49.0	23.0	4.5		33.0	7.8	2.0		23.0	7.8	4.5		6.8	7.8	1.8		2.0	2.0	2.0	
September	17.0	49.0	79.0		7.8	23.0	33.0		11.0	13.0	6.8		4.5	17.0	17.0		2.0	17.0	4.5		1.8	17.0	1.8	
August	79.0	70.0	70.0		70.0	23.0	49.0		21.0	13.0	33.0		33.0	4.5	22.0		33.0	7.8	7.8		33.0	17.0	17.0	
July	350.0	23.0	4.5	33.0	110.0	33.0	13.0	13.0	130.0	11.0	7.8	23.0	49.0	7.8	17.0	7.8	49.0	13.0	22.0	7.8	22.0	4.5	13.0	17.0
June	23.0	11.0	33.0	NS	49.0	23.0	49.0	NS	13.0	23.0	49.0	NS	17.0	7.8	46.0	NS	7.8	4.5	13.0	NS	4.5	1.8	4.5	NS
May	17.0	17.0	7.8	70.0	23.0	33.0	9.2	49.0	7.8	17.0	7.8	23.0	2.0	13.0	2.0	22.0	23.0	23.0	6.8	6.8	4.5	13.0	4.5	4.5
April	7.8	33.0	23.0	33.0	23.0	13.0	13.0	33.0	4.5	17.0	7.8	13.0	7.8	17.0	6.8	6.8	13.0	49.0	23.0	13.0	4.5	17.0	6.8	13.0
March	350.0	22.0	23.0	170.0	11.0	21.0	23.0	49.0	33.0	4.5	6.8	130.0	13.0	11.0	13.0	49.0	13.0	7.8	7.8	70.0	33.0	9.3	4.5	33.0
February	13.0	17.0	64.0	17.0	7.8	7.8	33.0	7.8	13.0	17.0	23.0	21.0	9.3	17.0	31.0	4.5	4.5	2.0	6.8	4.5	1.8	7.8	13.0	6.8
January	95.0	13.0	23.0	95.0	79.0	2.0	23.0	33.0	31.0	4.5	13.0	33.0	49.0	2.0	33.0	17.0	27.0	1.8	7.8	17.0	33.0	4.5	23.0	17.0
Additional Samples																								
Average Annual GeoMean	56.5	30.8	26.4	52.5	39.8	17.5	19.0	25.3	23.3	13.1	13.0	29.2	18.8	10.7	14.5	12.8	13.5	9.8	8.0	12.4	7.7	7.9	7.5	12.5
** Truncated GeoMetric Mean	44.0	42.0	35.0	32.0	36.0	29.0	23.0	19.0	20.0	20.0	16.0	15.0	16.0	15.0	14.0	12.0	10.0	10.0	10.0	9.0	7.0	8.0	7.0	8.0
** Truncated 90th Percentile	203.0	176.0	168.0	102.0	133.0	115.0	89.0	52.0	83.0	71.0	63.0	49.0	57.0	56.0	52.0	37.0	37.0	44.0	38.0	28.0	29.0	30.0	32.0	29.0

NS = No Sample
 AS = Additional Samples
 ** Town staff calculations utilizing DHEC statistics



May River Headwaters

*Monitoring Stations are required to have both Geometric Mean values of 14.0 Most Probable Number or below and 90th percentile values of 43.0 Most Probable Number or below to be classified as APPROVED by SC Department of Health & Environmental Control for shellfish harvesting.



ACTIVITY - FINANCIAL	STATUS
Funding Opportunities	Council unanimously adopted \$115 SWU Fee and NPDES-related Fees on 6/9/20. Staff submitted a full proposal on 6/24/20, for May River 319 Grant Phase 5 - Bridge Street Retrofit for stormwater treatment for \$179,900 grant funds. Notification anticipated by 8/15/20. Staff received notification that SCDHEC has recommended an award of \$179,700 for drainage and water quality improvements as part of the Bridge Street Streetscape project.
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	Current project updates are included in Engineering Consent Agenda under "Southern Lowcountry Regional Board (SoLoCo)."
ACTIVITY - PROJECTS	STATUS
Sanitary Sewer Extension	Completed Buck Island/Simmons Road (BIS) Phases I, II, III, IV; Toy Fields; and Jason/Able. Six project phases of Historic District sewer extension are proposed in the 5-year Capital Improvement Program. Current project updates are included in Engineering Consent Agenda under "Sewer & Water."
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. Current project updates are included in Engineering Consent Agenda under "Sewer & Water."
Stoney Creek Wetlands Restoration: Preliminary Design Phase	Project on hold following Council direction on 5/31/17.
May River Watershed Water Quality Model	Contract awarded to McCormick Taylor with final deliverables anticipated 8/20.
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. Current updates are included in Engineering Consent Agenda and Attachment 3.
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. Current updates are included in Engineering Consent Agenda Attachment 4a.

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>



**TOWN OF BLUFFTON
MAY RIVER WATERSHED ACTION PLAN ADVISORY COMMITTEE MEETING
ELECTRONIC MEETING**

Thursday, August 27, 2020 | 9 AM

AGENDA

This meeting can be viewed on the Town of Bluffton's Facebook page
(<https://www.facebook.com/TownBlufftonSC/>)

- I. CALL TO ORDER**
- II. NOTICE REGARDING POSTING OF MEETING PER SOUTH CAROLINA FREEDOM OF INFORMATION (FOIA) REQUIREMENTS**
- III. ROLL CALL AND CONFIRMATION OF QUORUM**
- IV. ADOPTION OF AGENDA**
- V. ADOPTION OF MINUTES – July 23, 2020**
- VI. PUBLIC COMMENTS**

Public Comments may be submitted electronically via the Town's website at (<https://www.townofbluffton.sc.gov/FormCenter/Town-15/Public-Comment-60>) or by emailing your comments to the Stormwater Coordinator/Field Assistant at bnoonan@townofbluffton.com. Comments will be accepted up to close of business (5:30 PM) the day prior to the scheduled meeting start time. All comments will be read aloud for the record.

- VII. NEW BUSINESS**
 - 1. Election of Officers**
- VIII. OLD BUSINESS**
 - 1. Recommendation to Planning Commission for Adoption of Southern Lowcountry Regional Stormwater Ordinance and Design Manual**
 - 2. Water Quality Monitoring Program (standing item)**
 - A. Monthly Sampling Update**

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

In accordance with the requirements of Title II of the Americans with Disabilities Act of 1990 ("ADA"), the Town of Bluffton will not discriminate against qualified individuals with disabilities on the basis of disability in its services, programs, or activities. The Town of Bluffton Council Chambers are ADA compatible. Any person requiring further accommodation should contact the Town of Bluffton ADA Coordinator at 843.706.4500 or adacoordinator@townofbluffton.com as soon as possible but no later than 48 hours before the scheduled event.

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

- B. Microbial Source Tracking (MST) Update
- C. SCDHEC Shellfish Data Update

IX. DISCUSSION

- 1. Consideration of Expanding the May River Watershed Action Plan Advisory Committee's Responsibilities to Include Additional Indicators of Watershed Health

X. ADJOURNMENT

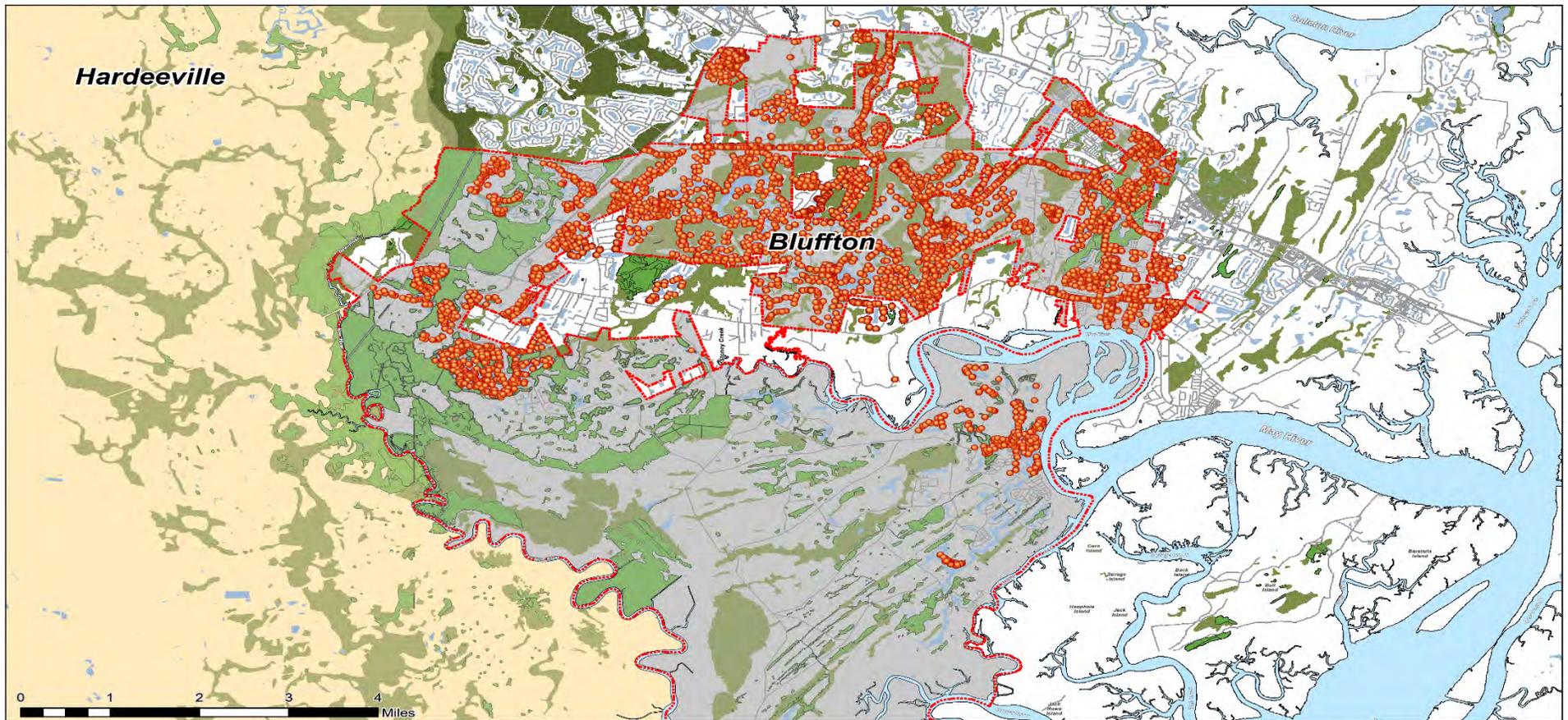
NEXT MEETING DATE: Thursday, September 24, 2020

“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.”

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

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

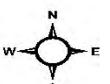


- SW STRUCTURE
- ▭ TOWN OF BLUFFTON
- ▭ WETLAND
- SW PIPE
- BEAUFORT COUNTY
- ▭ WATER
- ▭ JASPER COUNTY
- ROADS

Town of Bluffton
Beaufort County, SC

STORMWATER INFRASTRUCTURE

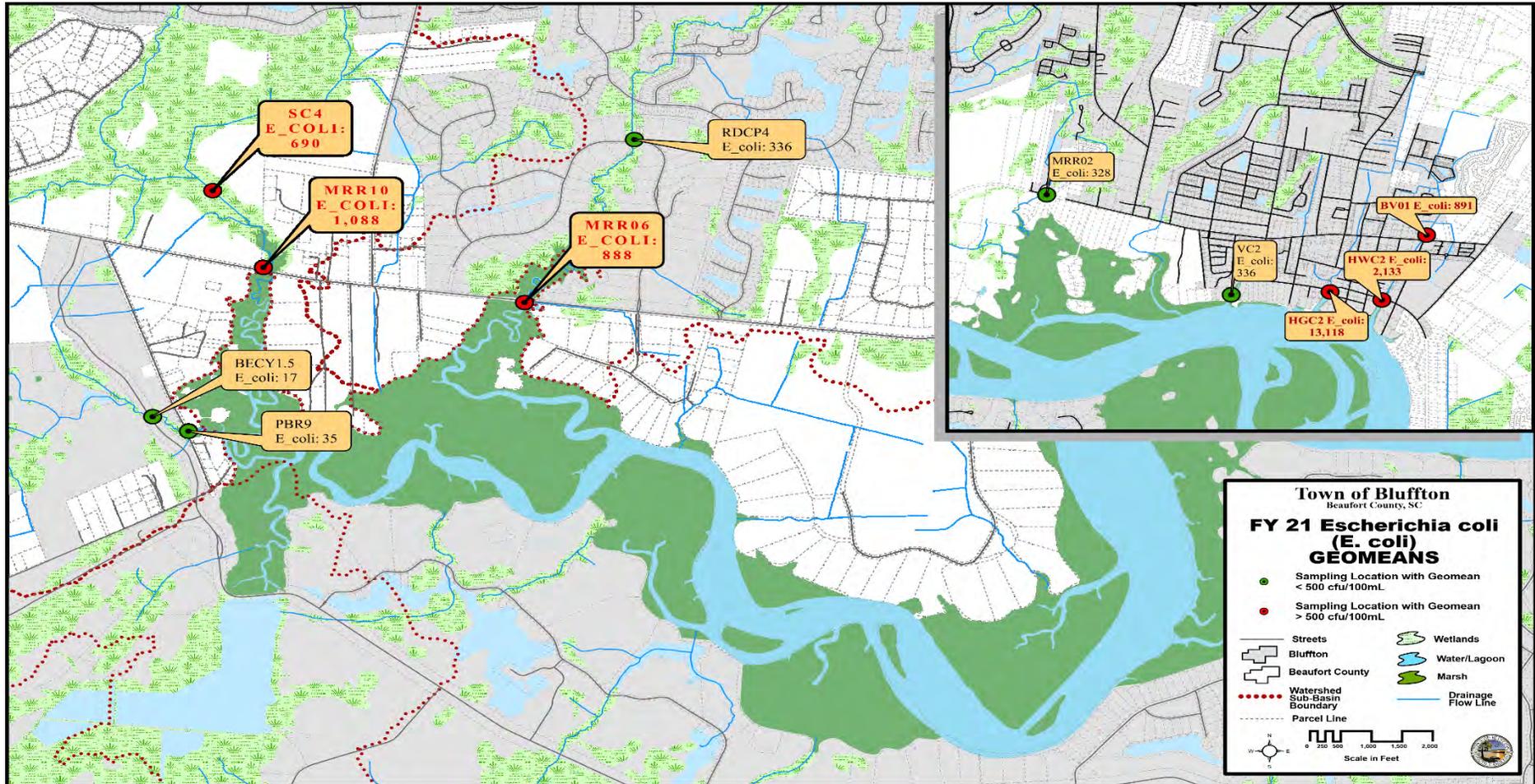
Bluffton is a coastal town in Beaufort County, South Carolina. The town is located on the northern shore of the Bluffton River, which is a tributary of the Pamlico River. The town is known for its historic architecture and scenic views of the water. The town's stormwater infrastructure is a critical component of its environmental management plan.



Updated Date: 8/19/2020

Stormwater Infrastructure Inventory Collection Status	
FY 2021 YTD Collection Totals	174
FY 2020 Collection Totals	4,878
FY 2019 Collection Totals	2,925
FY 2018 Collection Totals	3,777

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



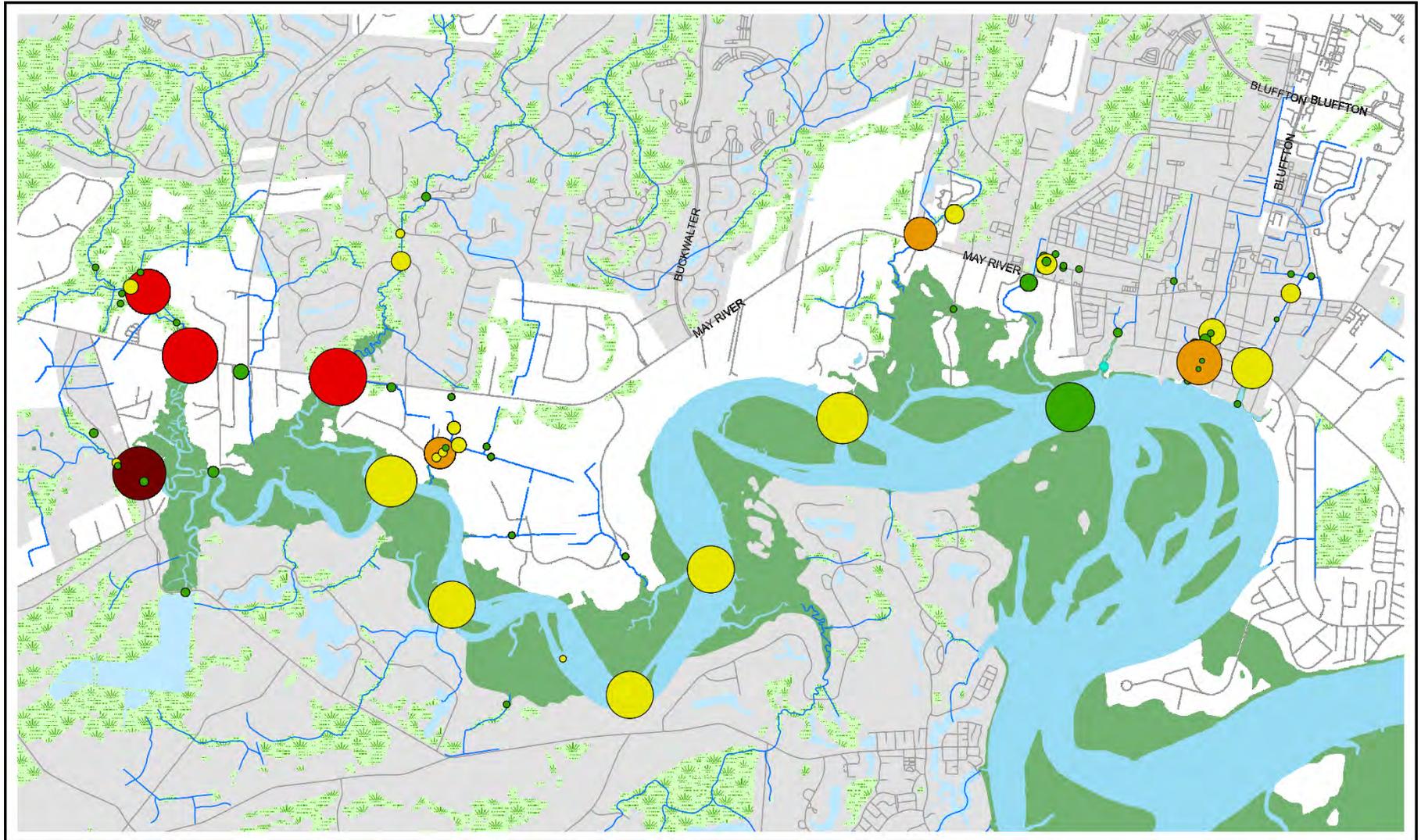
E coliform geomeans updated as of: 8/19/2020

	USCB Water Quality Samples	Microbial Source Tracking Samples	MS4 Quarterly Samples Collected
FY 2021 YTD Totals	39	21	27
FY 2020 Totals	223	115	123
FY 2019 Totals	280	193	264
FY 2018 Totals	216	217	224

8/19/2020

- MST program began November 2016; MS4 Quarterly Sampling initiated 2/2017
- Totals include only samples submitted for laboratory analysis, and not *in situ* parameters.

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



 Town Jurisdiction
 Beaufort County
 Drainage Flow Lines

Positive Hits

 0
  1-3
  3-6
  6-9
  >10

Times Sampled

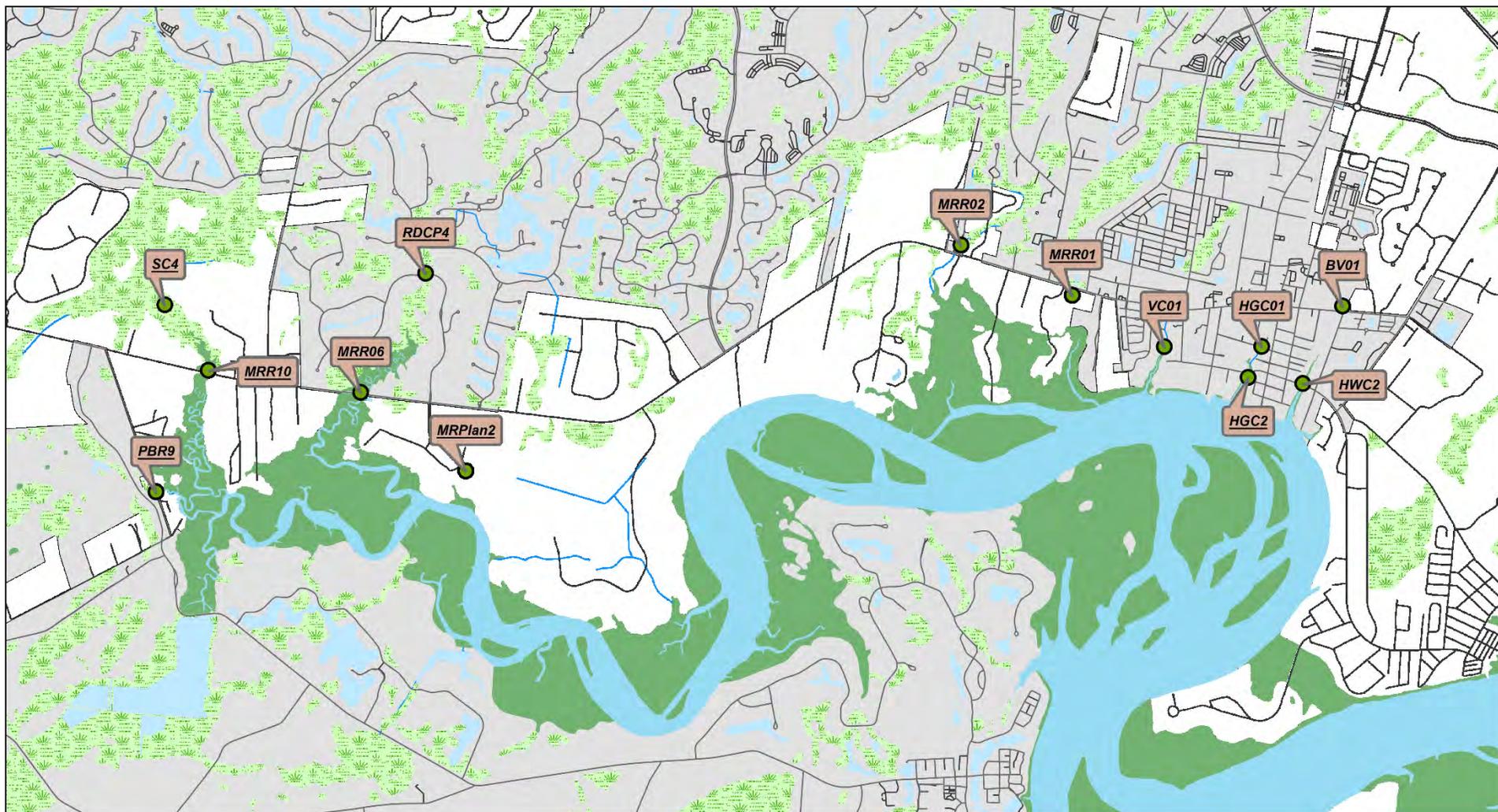
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  7 - 10
  >10

Size of dot correlates to # of times the site has been sampled.

Updated Date: 8/19/2020



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



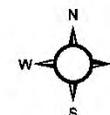
- Microbial Sources
- MST Sampling Location Without Detection
- Flowline
- Street
- Town Jurisdiction
- County Jurisdiction

MICROBIAL SOURCE TRACKING LOCATIONS

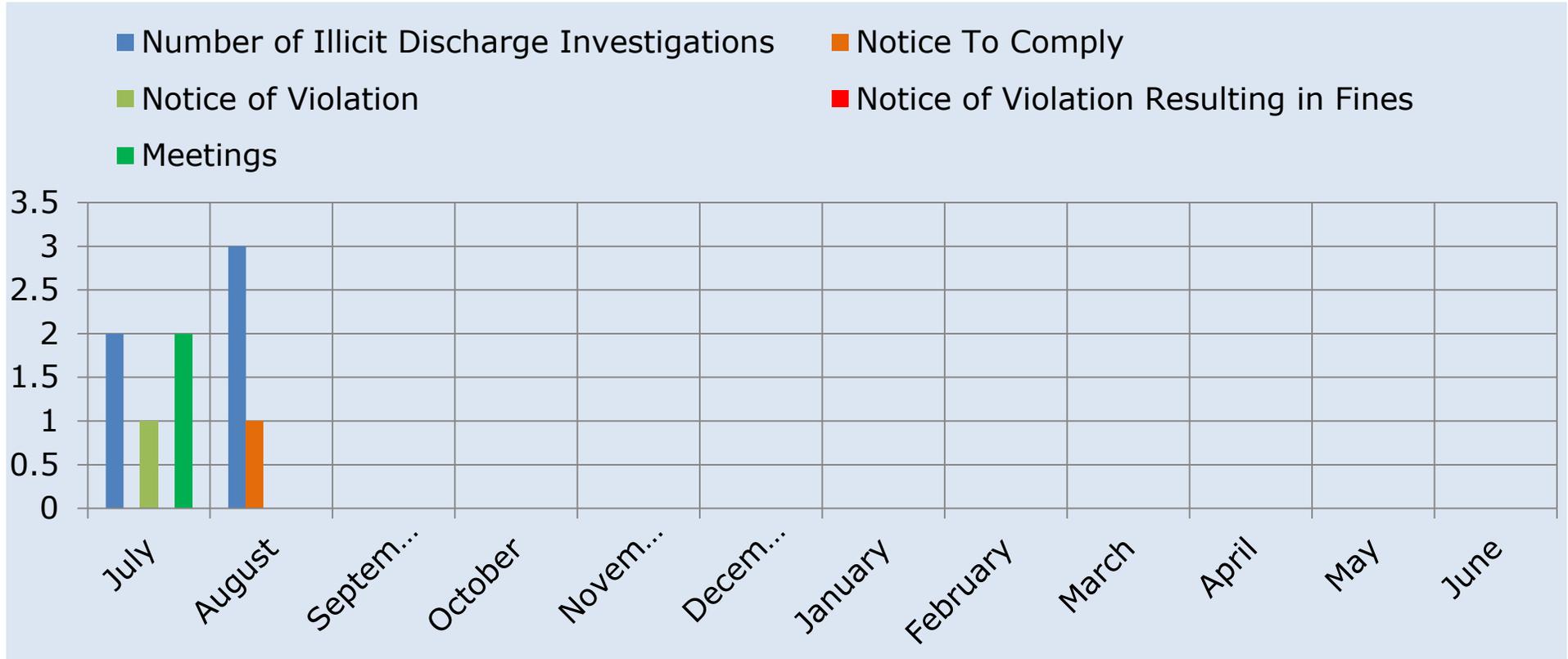
Sampling Date 4/16/2020

Town of Bluffton
Beaufort County, SC

MS4 IDDE
This map was prepared for the Town of Bluffton as part of the MS4 IDDE project. It is intended for informational purposes only and does not constitute a warranty or representation of any kind. The Town of Bluffton and its employees, agents, and contractors are not responsible for any errors or omissions in this map. The Town of Bluffton and its employees, agents, and contractors are not responsible for any damages, including consequential damages, arising from the use of this map. The Town of Bluffton and its employees, agents, and contractors are not responsible for any actions taken based on the information provided in this map. The Town of Bluffton and its employees, agents, and contractors are not responsible for any actions taken based on the information provided in this map.

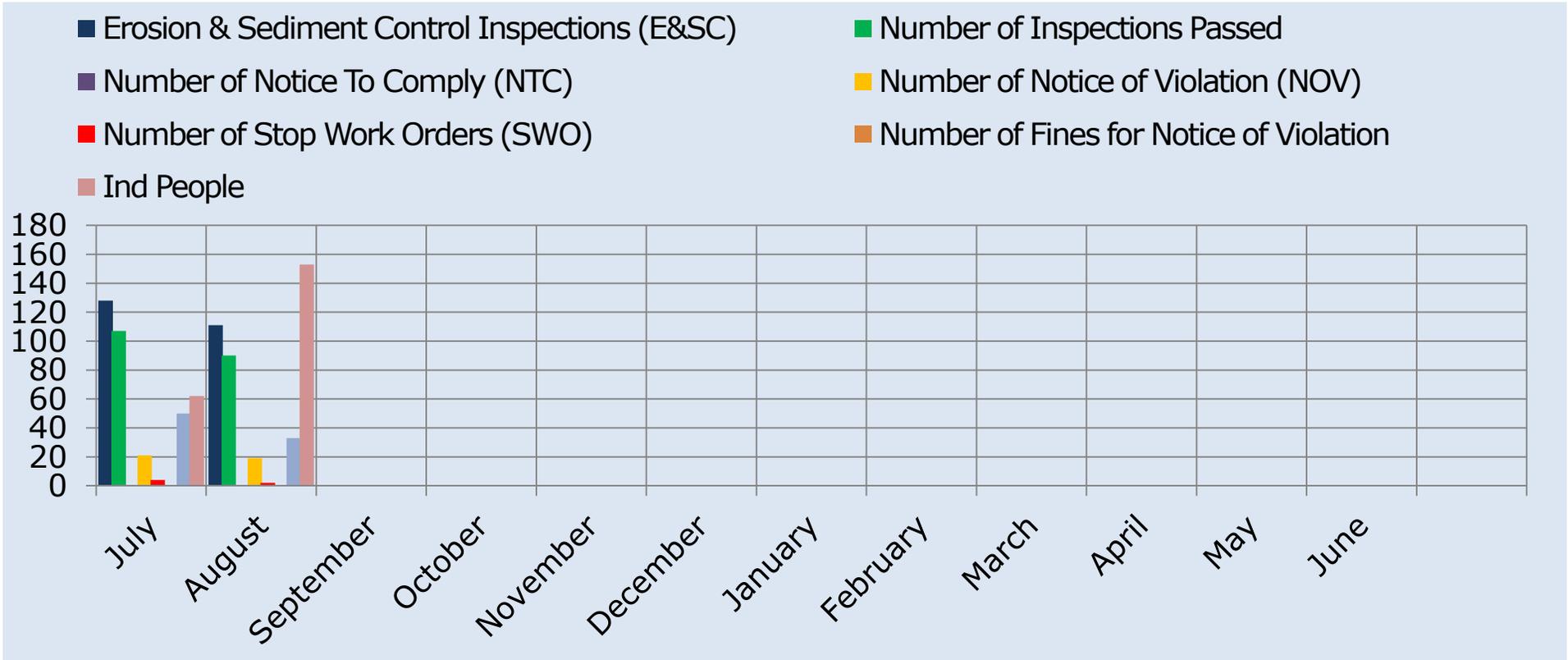


MS4 Minimum Control Measure #3 – IDDE: Illicit Discharge Investigations



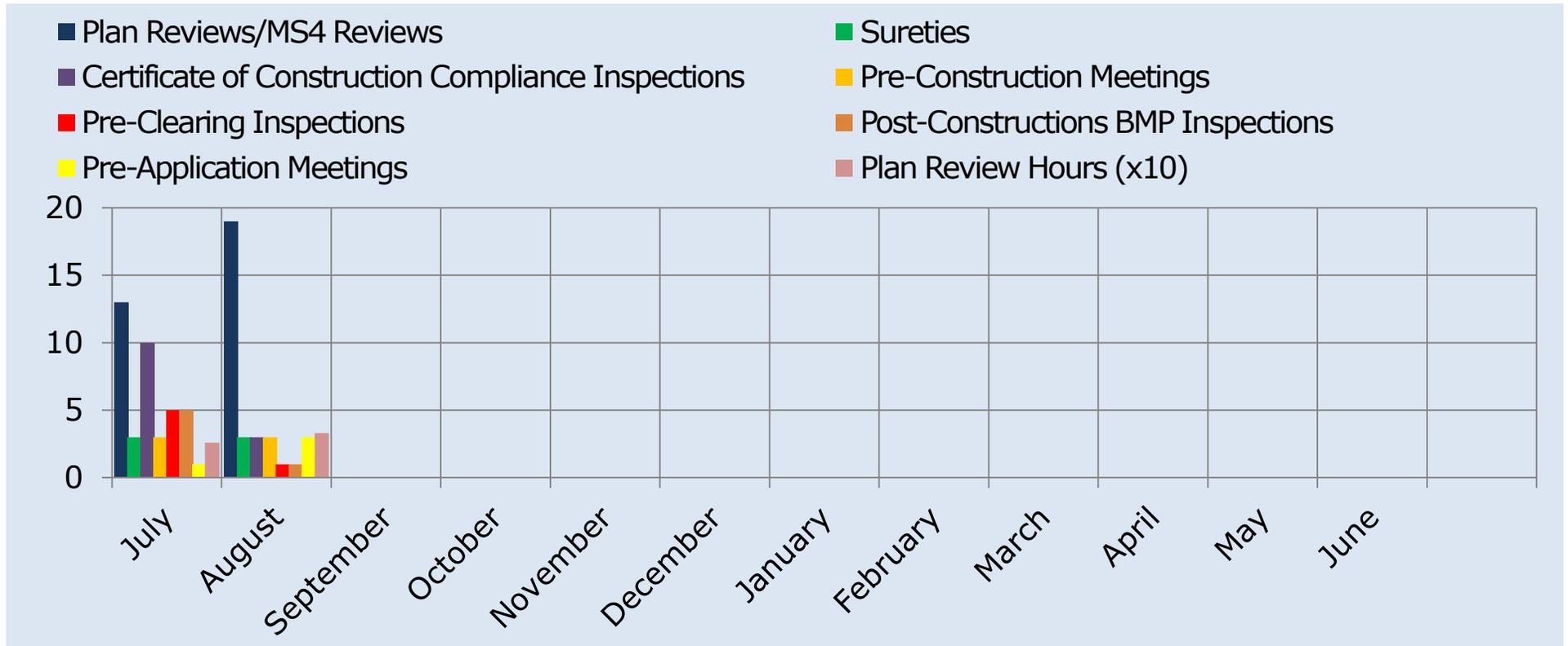
	Number of Illicit Discharge Investigations	Number of Notices To Comply Issued	Number of Notices of Violation Issued	Number of NOV Enforcement Actions	Number of Meetings
FY 2021 YTD Totals	2	N/A	1	0	2
FY 2020 Totals	45	10	8	6	49
FY 2019 Totals	38	20	3	1	61
FY 2018 Totals	48	20	4	2	60

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



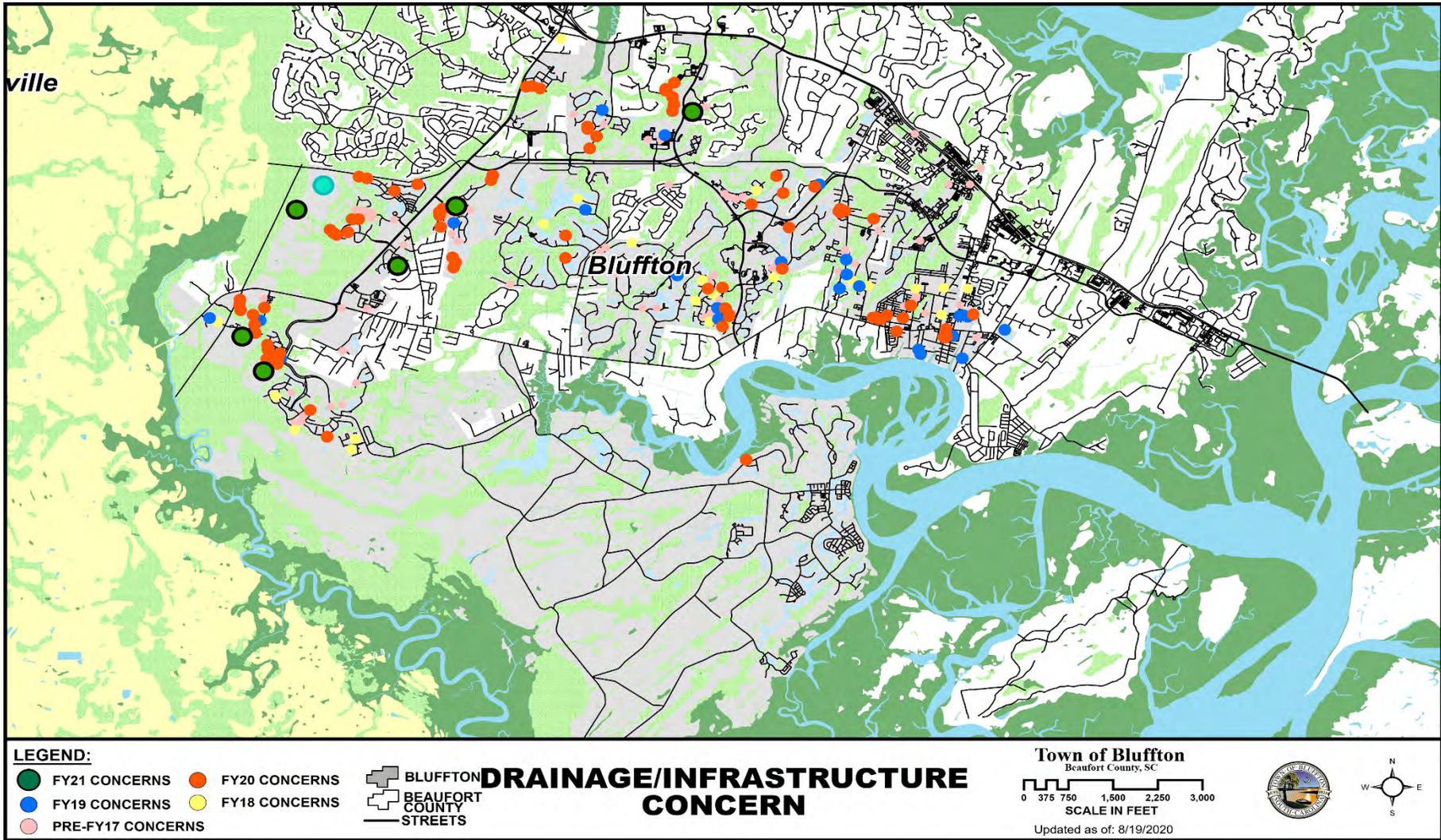
	Number of Sediment & Erosion Control Inspections	Number of Inspections Passed	Number of NTC Issued	Number of NOVs Issued	Number of SWO Issued	Number of NOV Enforcement Actions	Number of E&SC Meetings
FY 2021 YTD Totals	239	197	N/A	40	6	0	83
FY 2020 Totals	1,517	1187	128	185	16	9	496
FY 2019 Totals	1,688	1,384	254	72	N/A	7	403

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



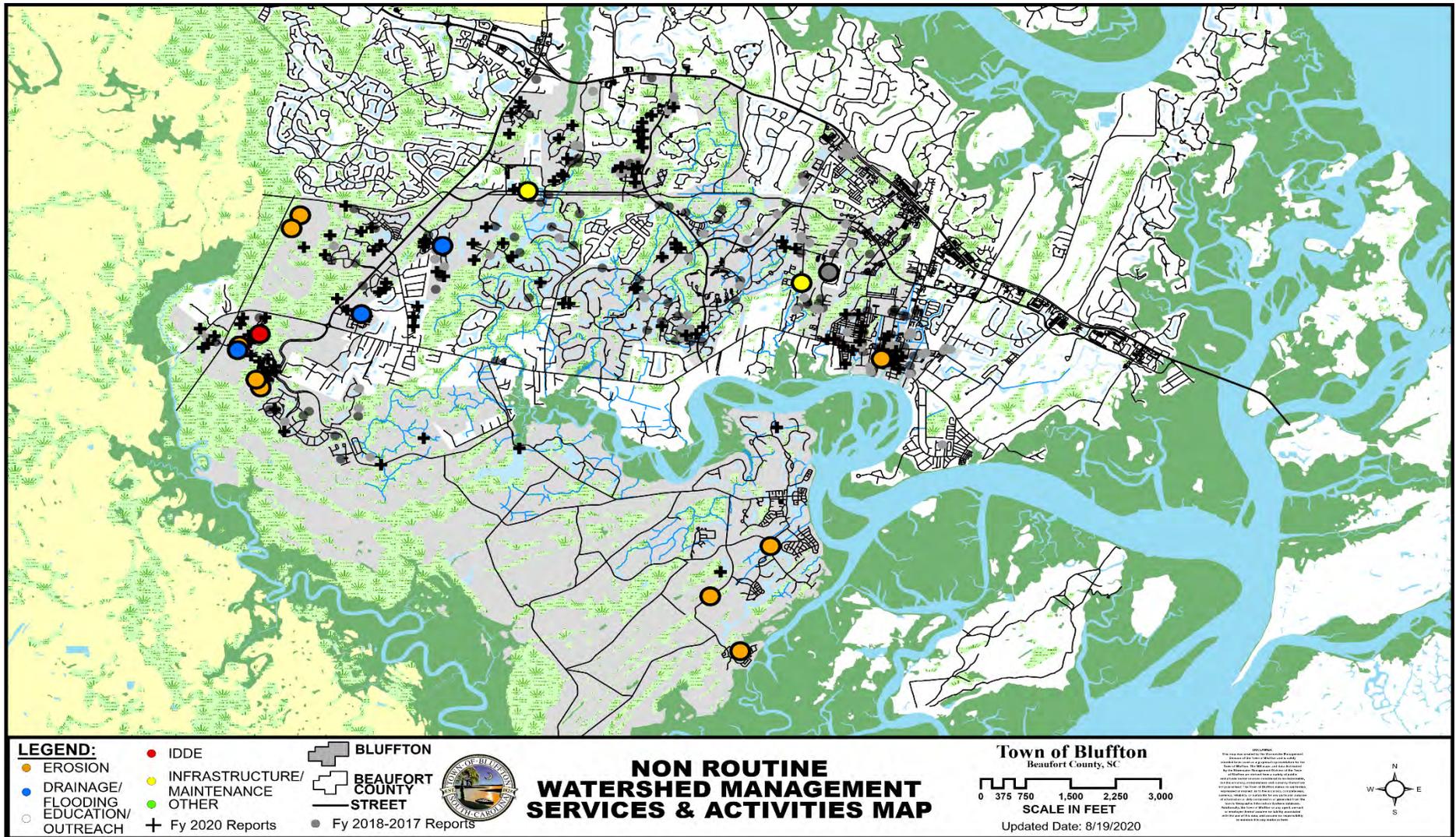
	Plan Reviews MS4 Reviews	Sureties	Certificate of Construction Compliance Inspections	Pre-Construction Meetings	Pre-Clearing Inspections	Post Construction BMP Inspections	Pre-Application Meetings	Total Plan Review Hours
FY 2021 YTD Totals	13	3	13	6	6	6	1	26 Hrs.
FY 2020 Totals	176	53	46	36	17	8	36	789 Hrs.
FY 2019 Totals	208	52	53	47	37	27	63	1,040 Hrs.

Citizen Drainage, Maintenance and Inspections Concerns Map



	Number of Drainage Concerns Investigated	Number of Meetings
FY 2021 YTD Totals	6	4
FY 2020 Totals	68	76
FY 2019 Totals	54	59

Citizen Request for Watershed Mngt. Services & Activities Map



	Number of Citizen Requests Investigated	Number of Meetings
FY 2021 YTD Totals	12	3
FY 2020 Totals	99	102
FY 2019 Totals	75	79



PUBLIC NOTICE

The Beautification Committee (BC)
Meeting scheduled for

Thursday, August 20, 2020, at 10:00 a.m.

Has been CANCELED
due to lack of agenda items

The next meeting is scheduled for
Thursday, September 17, 2020

If you have questions, please contact
Engineering at: 843-706-4599

Week	# of Activities	Labor Cost	Equipment Cost	Other Cost	Total
FY21WK1	61	\$4,397.00	\$3,188.00		\$7,584.00
FY21WK2	56	\$5,474.00	\$3,574.00	\$121.00	\$9,168.00
FY21WK3	48	\$4,880.00	\$3,502.00		\$8,382.00
FY21WK4	62	\$5,828.00	\$3,970.00		\$9,799.00
FY21WK5	45	\$4,706.00	\$3,575.00		\$8,281.00
FY21WK6	54	\$5,645.00	\$3,114.00		\$9,126.00
FY21WK7	60	\$4,855.00	\$4,232.00		\$9,087.00
FY21WK8					
FY21WK9					
FY21WK10					
FY21WK11					
FY21WK12					
FY21WK13					
FY21WK14					
FY21WK15					
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FY21WK45					
FY21WK46					
FY21WK47					
FY21WK48					
FY21WK49					
FY21WK50					
FY21WK51					
FY21WK52					
Total	386	\$35,785.00	\$25,155.00	\$121.00	\$61,427.00

Lowcountry Stormwater Partners (LSP) Monthly Report
8/4/20 – 9/1/20

Completed Stormwater Outreach/Involvement Activities:

- 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.
 - 8/14/20, online, 132, [Find a copy here](#)
- DOGust Pet Waste Social Media Campaign
 - This project was the first social media campaign that the LSP has ever attempted. The goal was to educate people about the impacts of pet waste on water quality and to encourage them to take a pledge promising to pick up their pet's waste. Infographics, images, videos, links to article, and polls were posted twice daily throughout the month of August.
 - 8/1/20-8/31/20, online, 3184 people reached with 58 posts, four pledge sign ups
- Using the SC Low Impact Development Manual to Meet State Stormwater Requirements
 - This workshop was planned in partnership with the ACE Basin NERR Coastal Training Program to meet our strategic plan needs. We originally scheduled the workshop for May as an in-person event. It was then scheduled for August as a virtual event. Participants learned what the SC LID manual is and how to access it. Participants will also become familiar with manual contents and receive a demonstration covering how to use the calculators to ensure site design meets state standards.
 - 8/19/20, online, 150
- HGIC Blog Post
 - The HGIC blog focuses on bringing timely information to South Carolinians on a variety of topics. Blog content is published and then promoted on the Clemson Extension Facebook page and the HGIC weekly newsletter, which has 3500 subscribers. My post educated septic owners on system maintenance.
 - 8/20/20, online, [Find a copy here](#)
- Keeping Ponds Healthy with Proactive Management
 - LSP hosted a 90-minute, informative webinar for Beaufort, Jasper, Colleton, and Hampton County pond owners. This webinar presented an overview of a proactive pond management style meant to keep your pond beautiful and healthy. Topics covered included stormwater pond function, design, and inspection. We also covered common pond issues, manage strategies, and preventative maintenance tips.
 - 8/6/20, online, 21
- Healthy Pond Series
 - The Healthy Pond Series is a community-based discussion series for pond owners to learn and share stormwater pond management solutions. This virtual session discussed the roles and responsibilities of pond owners, pond managers, and local government when it comes to pond maintenance. Participants heard from multiple municipalities about how their stormwater programs are structured, followed by a question and answer session.
 - 8/20/20, online, 24

Ongoing Stormwater Outreach/Involvement Activities:

- Mossy Oaks Rain Garden Workshop
 - I created the Mossy Oaks Elementary School Rain Garden Design Plan that included:
 - a project description
 - a site plan
 - plant descriptions
 - materials and budget
 - a maintenance agreement and plan
 - additional resources.
 - This plan was peer-reviewed by Kim Counts Morganello and Laura Lee Rose. [You can find a copy of the design plan here.](#)
 - I submitted the design plan to the School Improvement Committee on 6/1/20. They approved it the same day. The School Improvement Committee submitted the design plan to the Mossy Oaks Elementary School principal on 6/10/20. She green-lighted it on 6/15/20. The principal submitted the design plan to the Beaufort County School District on 6/17/20. We are still awaiting their approval.
 - I will schedule a rain garden workshop to install the BMP in the spring once the school district approves the plan, and a school representative returns a signed maintenance agreement.
- Septic System Resources
 - The septic system website written content has finished the review process and the website is under construction.
 - The septic system website will include a way for citizens to sign-up for an annual reminder to schedule septic system inspections. This form is currently under construction.
 - The project team created a list of additional outreach materials to make using the information from the website. They include magnets, brochures, door-hangers, fact sheets, etc. However, to create visual unity between all the products, we are designing a banner graphic. Once that is complete, we will begin creating additional materials.
- Pet Waste Outreach Plan
 - This plan involves the creation of PSAs, a pledge, and bag giveaways. I will package the PSAs, pledge materials, and bags together. These packages will be used at in-person events and dropped off at participating pet stores, shelters, and veterinary offices. I will use the pledge cards to collect email addresses and invite participants to join our listservs.
 - I've used partner feedback to select and order the pet waste bag holders.
 - For PSAs, the 2018 Carolina Clear mass media campaign produced billboards (which are still up) as well as a commercial. These items are in the resources section for further sharing. The Clemson Water Resources Team also finalized the design for an infographic on pet waste. [Find a copy here.](#)
 - The Clemson Communications Department and the Water Resources Team are partnering to re-design the current pet waste pledge and associated marketing products. The following items should be ready within the next week:
 - Business-card sized pledge cards
 - A pledge sign-up sheet
 - A poster with the pledge and a link to sign-up online. These can double as additional pet waste station signage as well as part of a display.
 - An online pledge sign-up form
 - A pledge card file that can be customized and sent to people who pledge through the online sign-up form.

Ongoing Stormwater Outreach/Involvement Activities (cont.):

- Buffer Information Packets for New Marsh-Front Property Owners
 - I created a draft information packet. This packet included:
 - A welcome letter from the LSP explaining the importance of buffers
 - Clemson's HGIC factsheet #1856: Life Along the Saltmarsh: Protecting Tidal Creeks with Vegetative Buffers
 - South Carolina Department of Health and Environmental Control's Backyard Buffers publication
 - An additional native plant list for expanded design options
 - An example buffer design with plant cost information
 - Contact information for local buffer ordinances
- Creation of an HOA Direct Mailing List
 - I began creating a list of mailing addresses for existing HOAs/PUDs to send pond training announcements and an invitation to join the Big News for Small Ponds listserv.
- Direct Contacts
 - During this time frame, I helped six (6) individuals who directly contacted me with issues. The most common questions were about pond maintenance, buffer maintenance, and fish-stocking information.
 - 6, Phone calls and emails
- 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.
 - 293 Likes, 2947 People Reached with 54 posts made between 8/3/20 and 9/1/20

Planned Stormwater Outreach/Involvement Activities:

- Brochure/Rack Card Creation
 - I plan to make a rack card on pond maintenance. By working with the Clemson Communications Department, the card should be ready for printing by the end of September.
- Soil Sample Social Media Campaign Development
 - I plan to run this campaign in September.
- Rain Garden presentation to Dawtaw Garden Club (rescheduled from May)
 - 9/8/20, cancelled due to COVID
- Pond presentation for the Moss Creek Community
 - 9/17/20, online

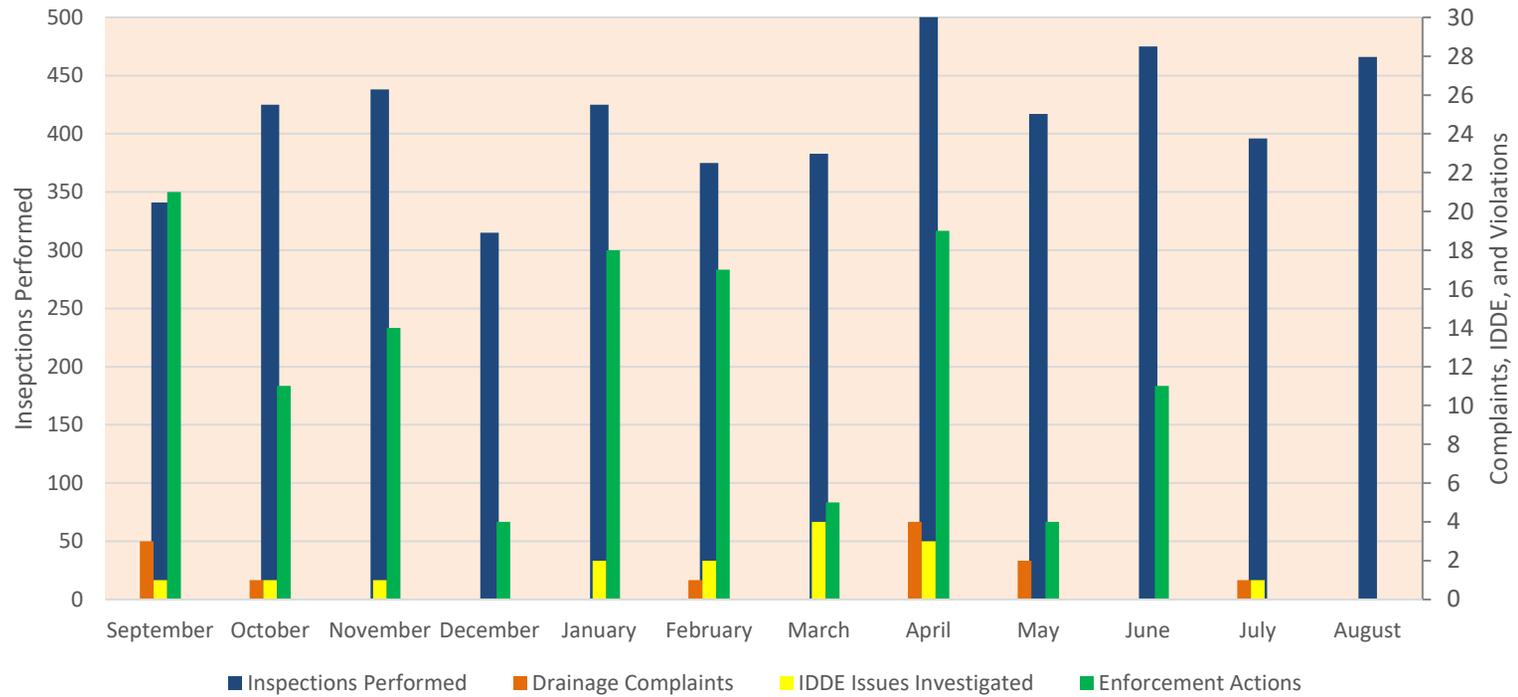
Other Activities for Strategic Plan Compliance:

- LID Lunch-and-Learns
 - After collaborating with Chuck Jarman, we concluded that we should schedule these events when Clemson and other parties lift restrictions on in-person workshops. The ACE BASIN CTP is interested in partnering with this effort and we will meet in December to discuss launching these programs in 2021.

Completed Strategic Plan Items:

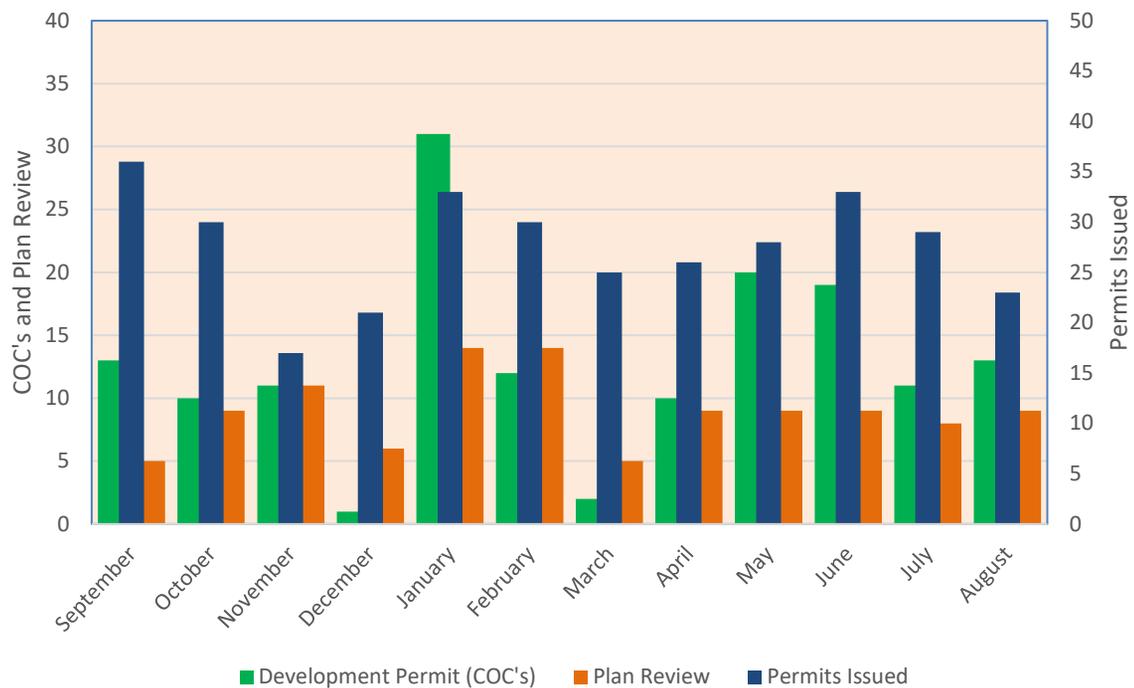
- Pond training listserv and direct mailer list
- Pet waste mass media campaign
- 2019 Beaufort Area Stormwater Pond Conference
- Master Pond Manager
- Pond mass media campaign
- Pond management website
- Soil sample trainings (satisfied by Cultivating a Carolina Yards workshops)
- Soil sample bags at 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

MS4 Minimum Control Measure #4 Erosion Sediment Control Inspections



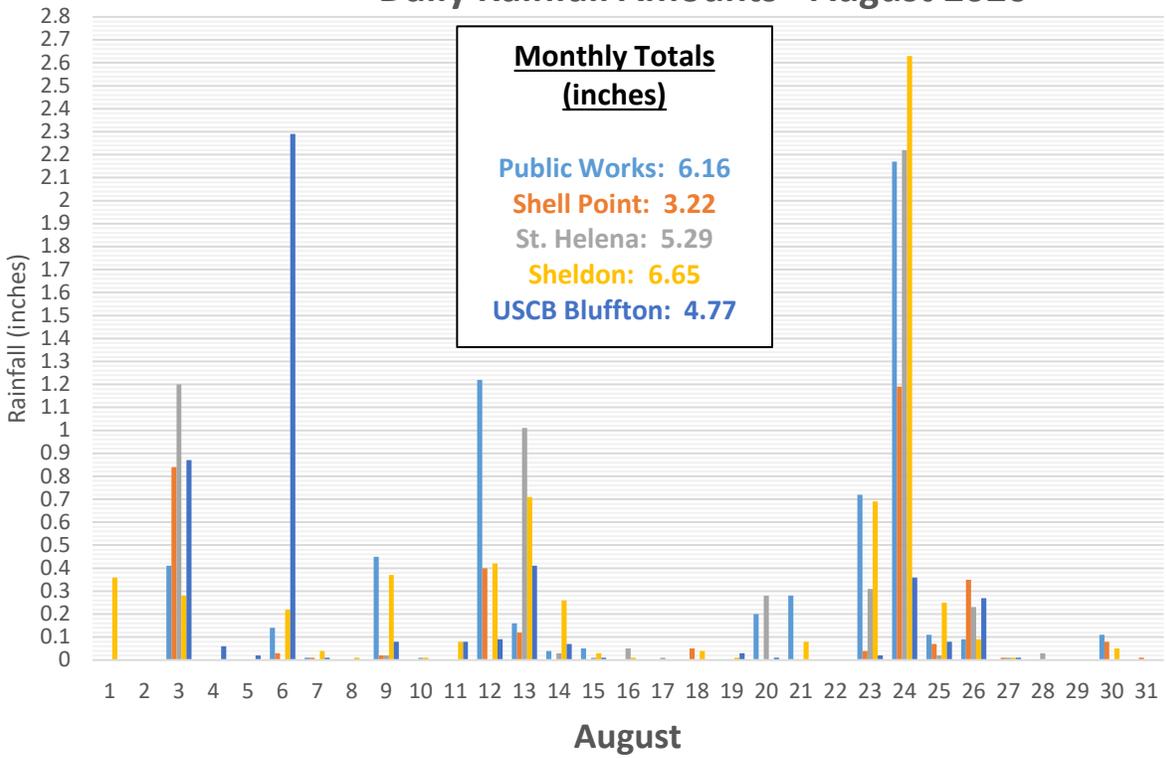
TYPE	September	October	November	December	January	February	March	April	May	June	July	August	Last 12 Months
Inspections Performed	341	425	438	315	425	375	383	512	417	475	396	466	4968
Drainage Complaints	3	1	0	0	0	1	0	4	2	0	1	0	12
IDDE Issues Investigated	1	1	1	0	2	2	4	3	0	0	1	0	14
Enforcement Actions	21	11	14	4	18	17	5	19	4	11	0	0	124

MS4 Minimum Control Measure #5 Stormwater Plan Review



TYPE	September	October	November	December	January	February	March	April	May	June	July	August	Last 12 Months
Development Permit (COC's)	13	10	11	1	31	12	2	10	20	19	11	13	153
Plan Review	5	9	11	6	14	14	5	9	9	9	8	9	108
Permits Issued	36	30	17	21	33	30	25	26	28	33	29	23	331

Beaufort County Weather Stations Daily Rainfall Amounts - August 2020





MEMORANDUM

Date: September 09, 2020

To: Stormwater Management Utility Board

From: Matthew Rausch, Stormwater Infrastructure Superintendent

Re: **Maintenance Project Report**

This report will cover six minor projects. The Project Summary Reports are attached.

Minor or Routine Projects:

- **Port Royal Island Bush Hog – Port Royal Island (SWUD 6/9):** This project improved 91,526 feet of drainage system. The scope of work bush hogging 89,961 feet of channel and 1,565 feet of workshelf. The total cost was **\$45,549.79**.
- **ToHHI Vacuum Truck – Hilton Head Island (SWUD 3):** This project improved 416 feet of drainage system. The scope of work included cleaning out 8 catch basins, jetting 6 crossline pipes, 2 driveway pipes, 1 access pipe, 324 feet of roadside pipe and 92 feet of channel pipe. The total cost was **\$9,329.63**.
- **Old Dawson Acres – Sheldon (SWUD 5):** This project improved 904 feet of drainage system. The scope of work included cleaning out 904 feet of roadside ditch, jetting 1 access pipe and 9 driveway pipes. The total cost was **\$3,705.57**.
- **Tom Fripp Road – St Helena Island (SWUD 8):** This project improved 923 feet of drainage system. The scope of work included cleaning out 923 feet of channel. The total cost was **\$2,080.52**.
- **Sheldon Vacuum Truck – Sheldon (SWUD 5):** The scope of work included jetting 4 crossline pipes. The total cost was **\$2,005.09**.
- **Lady's Island Washout Repair – Lady's Island (SWUD 7):** The scope of work included repairing 1 washout. The total cost was **\$1,244.30**.



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Port Royal Island Bush Hog

Activity: Routine/Preventive Maintenance

Duration: 11/18/19-05/20/20

Narrative Description of Project:

Second Rotation: 11/18/19-05/20/20 Project improved 91,526 L.F. of drainage system. Bush hogged 89,961 L.F. of channel and 1,565 L.F. of workshelf. This project consisted of the following areas: Shell Point Recreation Park (797 L.F.), Marina Boulevard (415 L.F.), Hamrick Drive (228 L.F.), Baynard Road (182 L.F.), LH Nelson Drive (3,598 L.F.), Hale Drive (3,099 L.F.), Cleveland Drive (598 L.F.), St Pauls Church Road (4,249 L.F.), Castle Rock Drop Off Center (184 L.F.), Quarter Horse Road (3,290 L.F.), Pony Avenue (1,790 L.F.), Clydesdale Circle (587 L.F.), Huron Drive (1,143 L.F.), East Coast Marine (1,066 L.F.), Providence Road (3,504 L.F.), Harding Street (287 L.F.), Bostick (556 L.F.), Chesterfield Drive (331 L.F.), Elderberry Drive (362 L.F.), Donaldson Camp Road (374 L.F.), Broad River Boulevard (885 L.F.), Walker Circle (955 L.F.), Castle Rock Fairground (870 L.F.), Leo Green Road (1,575 L.F.), Possum Hill Road (1,535 L.F.), Burton Wells Road (12,938 L.F.), Salem Drive E (1,565 L.F.), Franklin Drive (2,997 L.F.), Arnold Lane (1,973 L.F.), Old Country Drive (1,018 L.F.), Peace Haven Drive (475 L.F.), Mamie Frazier Lane (620 L.F.), Burrage Road (980 L.F.), Powell Drive (411 L.F.), Rosieda Road Ext (5,995 L.F.), Brilliant Lane (744 L.F.), Zehm Lane (10,331 L.F.), Blacksmith Lane (502 L.F.), Hobcaw Drive (2,333 L.F.), Lawson Road (604 L.F.), Schein Loop (3,004 L.F.), Mroz Road (198 L.F.), Ihly Farm Road (4,572 L.F.), Smalls Drive (1,305 L.F.), Mulrain Road (497 L.F.), Smith Road (274 L.F.), Gamecock Way (958 L.F.), Charleston Drive (137 L.F.), Greenleaf Lane (402 L.F.), Moultrie Circle (693 L.F.), Chisholm Hill Road (1,105 L.F.), and Shanklin Road (1,995 L.F.)

2020-301A / Port Royal Island Bush Hog

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	2.0	\$43.58	\$0.00	\$0.00	\$0.00	\$0.00	\$43.58
CBH / Channel- bushhogged	1030.0	\$21,175.92	\$13,116.34	\$1,241.67	\$0.00	\$7,852.25	\$43,386.18
DITCHI / Ditch - Inspection	48.0	\$983.16	\$93.36	\$31.35	\$0.00	\$264.60	\$1,372.47
HAUL / Hauling	2.0	\$45.98	\$69.28	\$14.00	\$0.00	\$0.00	\$129.26
WSBH / Workshelf - Bush Hogged	20.0	\$428.50	\$38.90	\$18.60	\$0.00	\$132.30	\$618.30
2020-301A / Port Royal Island Bush Hog Sub Total	1,102.0	\$22,677.14	\$13,317.88	\$1,305.62	\$0.00	\$8,249.15	\$45,549.79
Grand Total	1,102.0	\$22,677.14	\$13,317.88	\$1,305.62	\$0.00	\$8,249.15	\$45,549.79

Before



During



After





Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: ToHHI Vacuum Truck -

Sandy Beach Trail, Burkes Beach Road, Mystic Drive, Castnet Drive, Cardinal Road, Oak Marsh Drive and Chisholm Place

Activity: Routine/Preventive Maintenance

Duration: 01/18/20-05/13/20

Narrative Description of Project:

Project improved 416 L.F. of drainage system. Cleaned out (8) catch basins. Jetted (6) crossline pipes, (2) driveway pipes, (1) access pipe, 324 L.F. of roadside pipe and 92 L.F. of channel pipe.

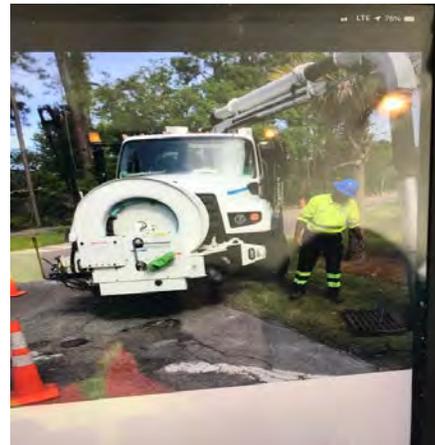
2020-311A / Hilton Head Island Vac Truck

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
APJT / Access pipe - jetted	20.0	\$441.90	\$422.10	\$38.70	\$0.00	\$164.70	\$1,067.40
AUDIT / Audit Project	1.0	\$21.79	\$0.00	\$0.00	\$0.00	\$0.00	\$21.79
CBCO / Catch basin - clean out	54.0	\$1,199.42	\$1,073.54	\$194.40	\$0.00	\$652.26	\$3,119.62
CLPJT / Crossline Pipe - Jetted	32.0	\$707.04	\$636.46	\$92.20	\$0.00	\$263.52	\$1,699.22
CPJ / Channel Pipe - Jetted	20.0	\$441.90	\$422.10	\$50.30	\$0.00	\$164.70	\$1,079.00
DPJT / Driveway Pipe - Jetted	40.0	\$851.10	\$422.10	\$53.70	\$0.00	\$419.10	\$1,746.00
RSPJ / Roadside Pipe - Jetted	10.0	\$222.80	\$191.60	\$38.80	\$0.00	\$143.40	\$596.60
2020-311A / Hilton Head Island Vac Truck Sub Total	177.0	\$3,885.95	\$3,167.90	\$468.10	\$0.00	\$1,807.68	\$9,329.63
Grand Total	177.0	\$3,885.95	\$3,167.90	\$468.10	\$0.00	\$1,807.68	\$9,329.63

Before



During



Ending

(No Picture Available)



Project: ToHHI
Vacuum Truck-
Mystic Drive
Map #1

Activity: Routine/
Preventive
Maintenance

Project #:
2020-311A

Township/SW Dist:
Hilton Head Island/3

Completed:
May 2020

Legend

Drainage Type

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

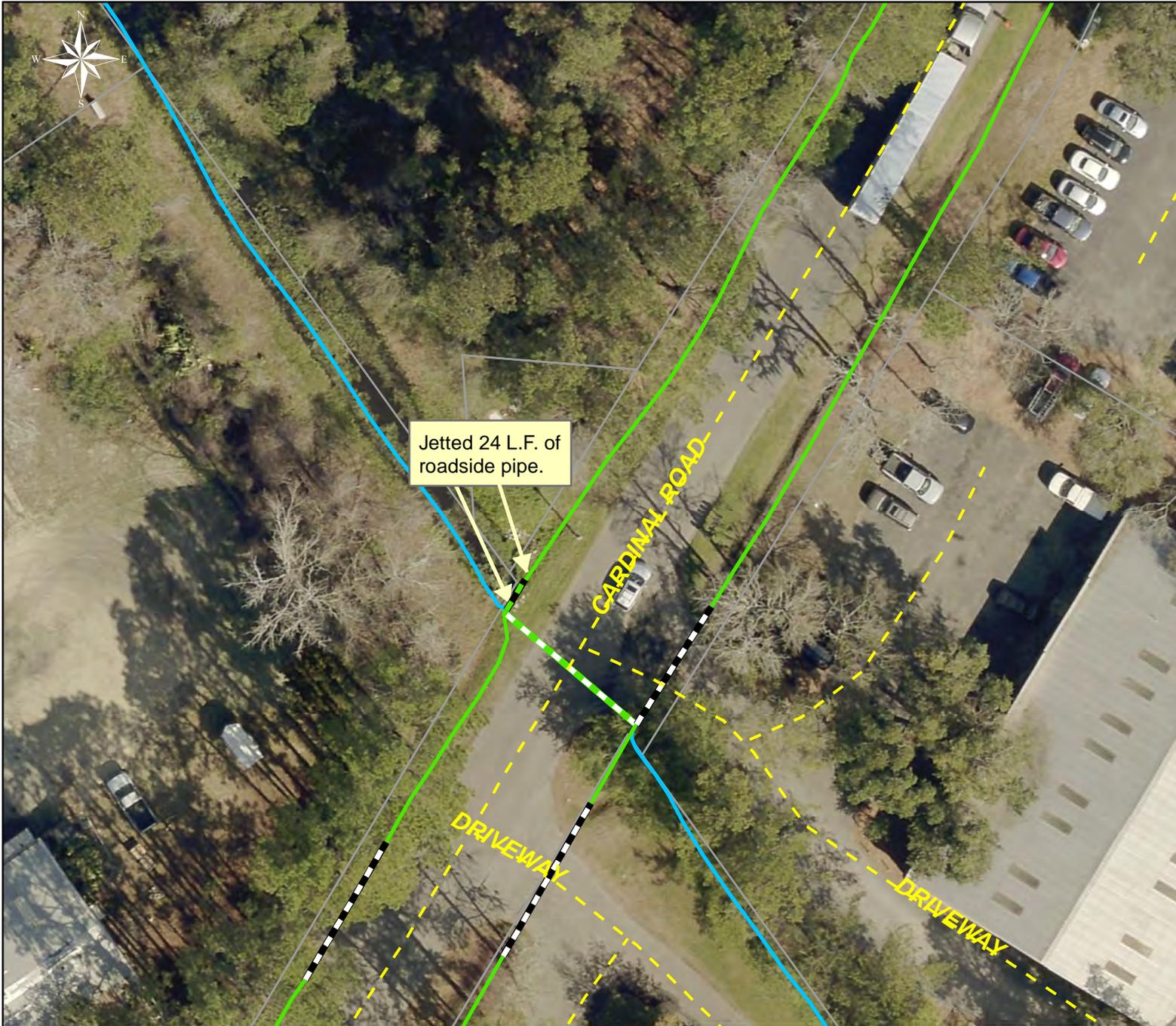
0 30 60 120 180 240
Feet

1 inch = 130 feet

Prepared By: BC Stormwater Management Utility

Date Print: 08/10/20

File: C:\project summaries map\ToHHI Vac Truck- Mystic Drive Map #1_2020-311A



Project: ToHHI
Vacuum Truck-
Cardinal Road
Map #2

Activity: Routine/
Preventive
Maintenance

Project #:
2020-311A

Township/SW Dist:
Hilton Head Island/3

Completed:
May 2020

Legend

Drainage Type

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



1 inch = 42 feet

Prepared By: BC Stormwater Management Utility

Date Print:08/10/20

File:C:\project summaries map\ToHHI Vac Truck- Cardinal Road Map #2_2020-311A



Project: ToHHI
 Vacuum Truck-
 Burkes Beach
 Road and Sandy
 Beach Trail
 Map #3

Activity: Routine/
 Preventive
 Maintenance

Project #:
 2020-311A

Township/SW Dist:
 Hilton Head Island/3

Completed:
 May 2020

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

0 12.5 50 75 100
 Feet

1 inch = 83 feet

Prepared By: BC Stormwater Management Utility

Date Print: 08/10/20

File: C:\project summaries map\ToHHI Vac Truck- Burkes Beach Road and Sandy Beach Trail Map #4_2020-311A



Project: ToHHI
Vacuum Truck-
Burkes Beach
Road Map #4

Activity: Routine/
Preventive
Maintenance

Project #:
2020-311A

Township/SW Dist:
Hilton Head Island/3

Completed:
May 2020

Legend

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



1 inch = 83 feet

Prepared By: BC Stormwater Management Utility

Date Print: 08/10/20

File: C:\project summaries map\ToHHI Vac Truck- Burkes Beach Road Map #4_2020-311A



Project: ToHHI
Vacuum Truck-
Castnet Drive
Road Map #5

Activity: Routine/
Preventive
Maintenance

Project #:
2020-311A

Township/SW Dist:
Hilton Head Island/3

Completed:
May 2020

Legend

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



1 inch = 83 feet

Prepared By: BC Stormwater Management Utility

Date Print:08/10/20

File:C:\project summaries map\ToHHI Vac Truck- Castnet Drive Map #5_2020-311A



Cleaned out (1) catch basin.
Jetted (1) crossline pipe and
140 L.F. of roadside pipe.

Jetted 80 L.F. of channel
pipe.

Project: ToHHI
Vacuum Truck-
Oak Marsh Drive
Map #6

Activity: Routine/
Preventive
Maintenance

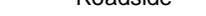
Project #:
2020-311A

Township/SW Dist:
Hilton Head Island/3

Completed:
May 2020

Legend

Drainage Type

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

0 40 80 160 240 320
Feet

1 inch = 190 feet

Prepared By: BC Stormwater Management Utility

Date Print:08/10/20

File:C:\project summaries map\ToHHI Vac Truck- Oak Marsh Drive Map #6_2020-311A



Project: ToHHI
Vacuum Truck-
Chisholm Place
Map #7

Activity: Routine/
Preventive
Maintenance

Project #:
2020-311A

Township/SW Dist:
Hilton Head Island/3

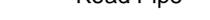
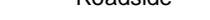
Completed:
May 2020

Cleaned out (1) catch basin.
Jetted 12 L.F. of channel
pipe.

Cleaned out (1) catch basin.
Jetted (1) crossline pipe.

Legend

Drainage Type

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



1 inch = 83 feet

Prepared By: BC Stormwater Management Utility

Date Print:08/10/20

File:C:\project summaries map\ToHHI Vac Truck- Chisholm Place Map #7_2020-311A



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Old Dawson Acres

Activity: Routine/Preventive Maintenance

Duration: 04/02/20-04/16/20

Narrative Description of Project:

Project improved 904 L.F. of drainage system. Cleaned out 904 L.F. of roadside ditch. Jetted (1) access pipe and (9) driveway pipes.

2020-041 / Old Dawson Acres	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.0	\$21.79	\$0.00	\$0.00	\$0.00	\$0.00	\$21.79
DPJT / Driveway Pipe - Jetted	10.0	\$230.60	\$43.40	\$29.80	\$0.00	\$61.05	\$364.85
HAUL / Hauling	30.0	\$660.50	\$424.80	\$84.15	\$0.00	\$0.00	\$1,169.45
RSDCL / Roadside Ditch - Cleanout	55.0	\$1,143.95	\$277.82	\$73.38	\$0.00	\$641.10	\$2,136.25
UTLOC / Utility locates	1.0	\$0.00	\$0.00	\$0.00	\$0.00	\$13.23	\$13.23
2020-041 / Old Dawson Acres Sub Total	97.0	\$2,056.84	\$746.02	\$187.33	\$0.00	\$715.38	\$3,705.57
Grand Total	97.0	\$2,056.84	\$746.02	\$187.33	\$0.00	\$715.38	\$3,705.57

Before



During

(No Picture Available)

Ending





Project: Old Dawson Acres

Activity: Routine/ Preventive Maintenance

Project #: 2020-041

Township/SW Dist: Sheldon/5

Completed: April 2020

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

0 25 50 100 150 200 Feet

1 inch = 120 feet

Prepared By: BC Stormwater Management Utility
 Date Print:07/01/20
 File:C:\project summaries map/Old Dawson Acres_2020-041



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Tom Fripp Road

Activity: Routine/Preventive Maintenance

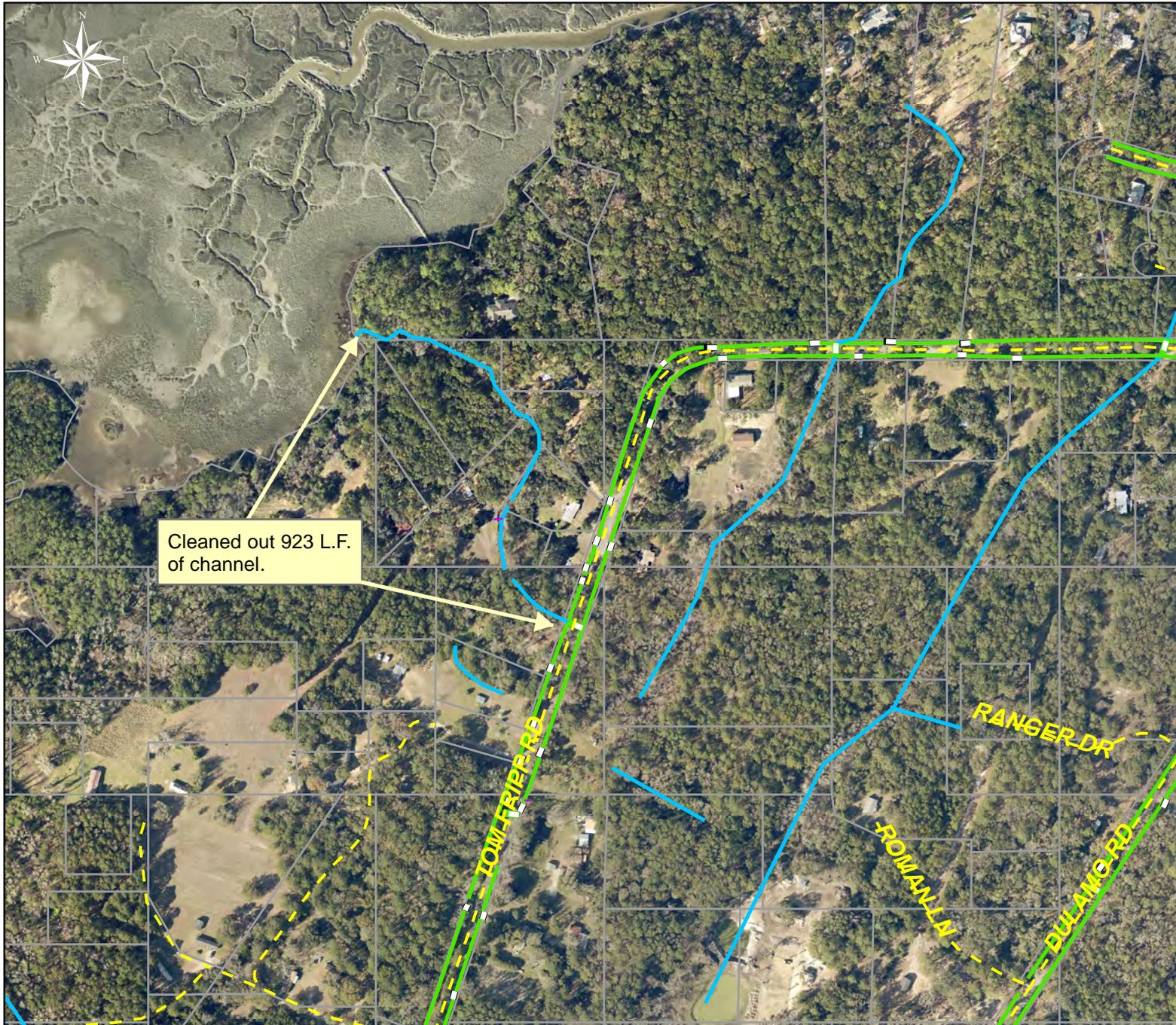
Duration: 06/15/20-06/16/20

Narrative Description of Project:

Project improved 923 L.F. of drainage system. Cleaned out 923 L.F. of channel.

2020-047 / Tom Fripp Road	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.0	\$21.79	\$0.00	\$0.00	\$0.00	\$0.00	\$21.79
CCO / Channel - cleaned out	30.0	\$609.90	\$154.94	\$26.08	\$0.00	\$254.40	\$1,045.32
HAUL / Hauling	19.0	\$423.13	\$269.04	\$47.26	\$0.00	\$273.98	\$1,013.41
2020-047 / Tom Fripp Road Sub Total	50.0	\$1,054.82	\$423.98	\$73.34	\$0.00	\$528.38	\$2,080.52
Grand Total	50.0	\$1,054.82	\$423.98	\$73.34	\$0.00	\$528.38	\$2,080.52

No Pictures Available



Project: Tom Fripp Road

Activity: Routine/
Preventive
Maintenance

Project #:
2020-047

Township/SW Dist:
St.Helena Island/8

Completed:
June 2020

Legend

Drainage Type

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

0 100 200 400 600 800
Feet

1 inch = 420 feet

Prepared By: BC Stormwater Management Utility
Date Print: 08/10/20
File: C:\project summaries map\Tom Fripp Road_2020-047



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Sheldon Vacuum Truck - Keans Neck Road, Oree Road,
Twickenham Road

Activity: Routine/Preventive Maintenance

Duration: 01/07/20-03/10/20

Narrative Description of Project:

Jetted (4) crossline pipes.

2020-308A / Sheldon Vac Truck

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.0	\$21.79	\$0.00	\$0.00	\$0.00	\$0.00	\$21.79
CLPJT / Crossline Pipe - Jetted	40.0	\$885.65	\$618.20	\$89.00	\$0.00	\$390.45	\$1,983.30
2020-308A / Sheldon Vac Truck Sub Total	41.0	\$907.44	\$618.20	\$89.00	\$0.00	\$390.45	\$2,005.09
Grand Total	41.0	\$907.44	\$618.20	\$89.00	\$0.00	\$390.45	\$2,005.09

Before



During



Ending





Project: Sheldon Vacuum Truck-Twickenham Road Map #1

Activity: Routine/ Preventive Maintenance

Project #: 2020-308A

Township/SW Dist: Sheldon/5

Completed: March 2020

Legend

Drainage Type

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



1 inch = 67 feet

Prepared By: BC Stormwater Management Utility
Date Print:08/10/20

File:C:\project summaries map/Sheldon Vac Truck- Twickenham Road Map #1_2020-308A



Project: Sheldon
Vacuum Truck-
Oree Road
Map #2

Activity: Routine/
Preventive
Maintenance

Project #:
2020-308A

Township/SW Dist:
Sheldon/5

Completed:
March 2020

Legend

Drainage Type

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



1 inch = 120 feet

Prepared By: BC Stormwater Management Utility

Date Print:08/10/20

File:C:\project summaries map/Sheldon Vac Truck- Oree Road Map #2_2020-308A



Project: Sheldon
Vacuum Truck-
Keans Neck Road
Map #3

Activity: Routine/
Preventive
Maintenance

Project #:
2020-308A

Township/SW Dist:
Sheldon/5

Completed:
March 2020

Legend

Drainage Type

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



1 inch = 120 feet

Prepared By: BC Stormwater Management Utility

Date Print: 08/10/20

File: C:\project summaries map\Sheldon Vac Truck- Keans Neck Road Map #3_2020-308A



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Lady's Island Washout Repair - Ardmore Ave

Activity: Routine/Preventive Maintenance

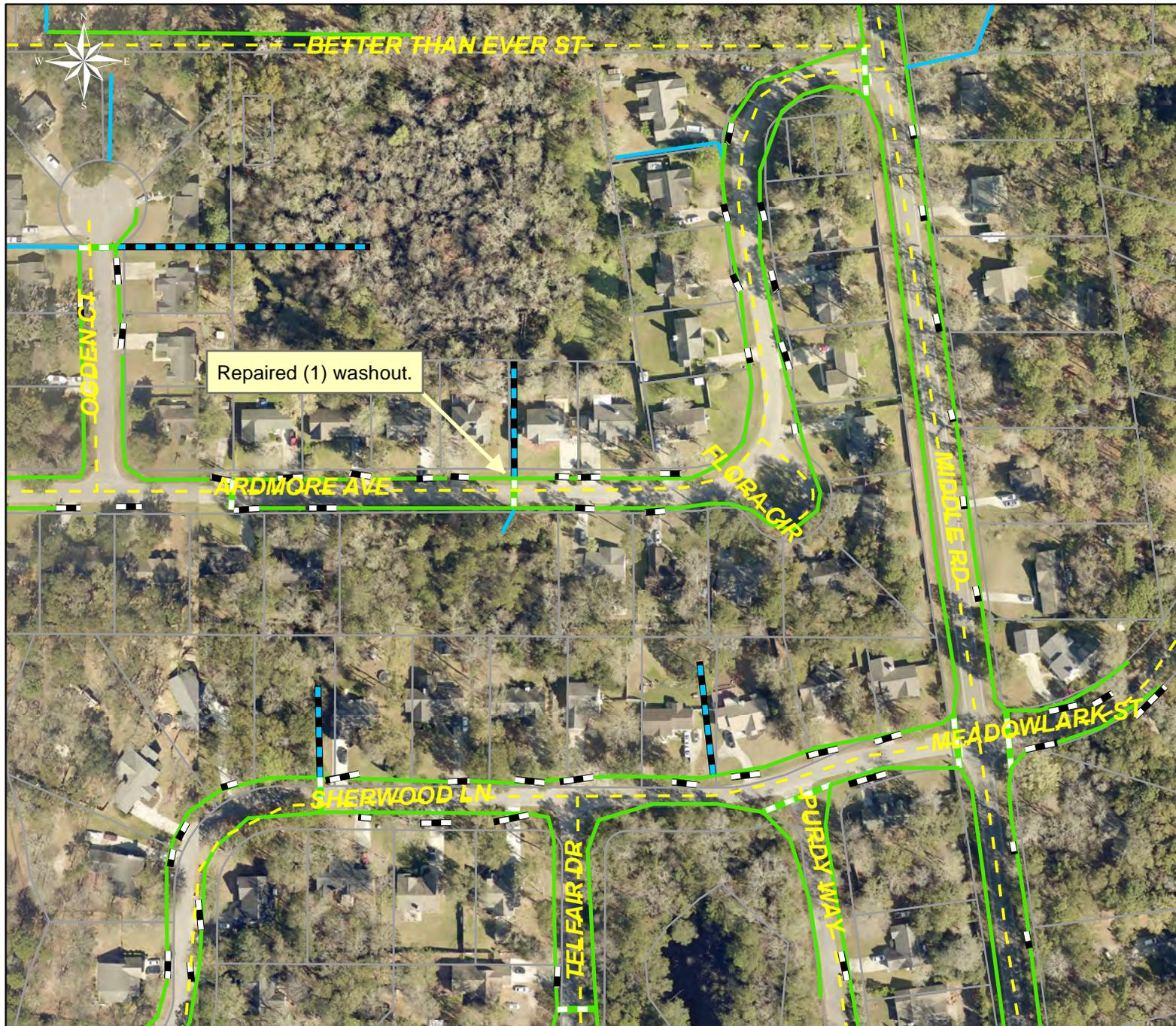
Duration: 02/20/20

Narrative Description of Project:

Repaired (1) washout.

2020-516A / Ladys Island Washout	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.0	\$21.79	\$0.00	\$0.00	\$0.00	\$0.00	\$21.79
CAMI / Camera Inspection	5.0	\$124.10	\$19.45	\$7.03	\$0.00	\$0.00	\$150.58
HAUL / Hauling	4.0	\$89.08	\$56.64	\$26.60	\$0.00	\$57.68	\$230.00
RPWO / Repaired Washout	25.0	\$514.45	\$60.37	\$134.81	\$0.00	\$132.30	\$841.93
2020-516A / Ladys Island Washout Sub Total	35.0	\$749.42	\$136.46	\$168.44	\$0.00	\$189.98	\$1,244.30
Grand Total	35.0	\$749.42	\$136.46	\$168.44	\$0.00	\$189.98	\$1,244.30

No Pictures Available



Project: Lady's Island Washout Repair- Ardmore Avenue

Activity: Routine/ Preventive Maintenance

Project #: 2020-516A

Township/SW Dist: Lady's Island/7

Completed: February 2020

Legend

Drainage Type

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



1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 08/10/20

File: C:\project summaries map\Lady's Island Washout Repair- Ardmore Avenue_2020-516A



MALIND BLUFF DEVELOPMENT

Beaufort County



Plan Review

- Conceptual and Final Process
- Applicant must address construction (sediment and erosion control) and permanent BMP's
- This includes a Comprehensive Stormwater Pollution Prevention Plan with hydrology reports and contaminant worksheets, Soil Types, Flood Plains, and much more

Conceptual Review

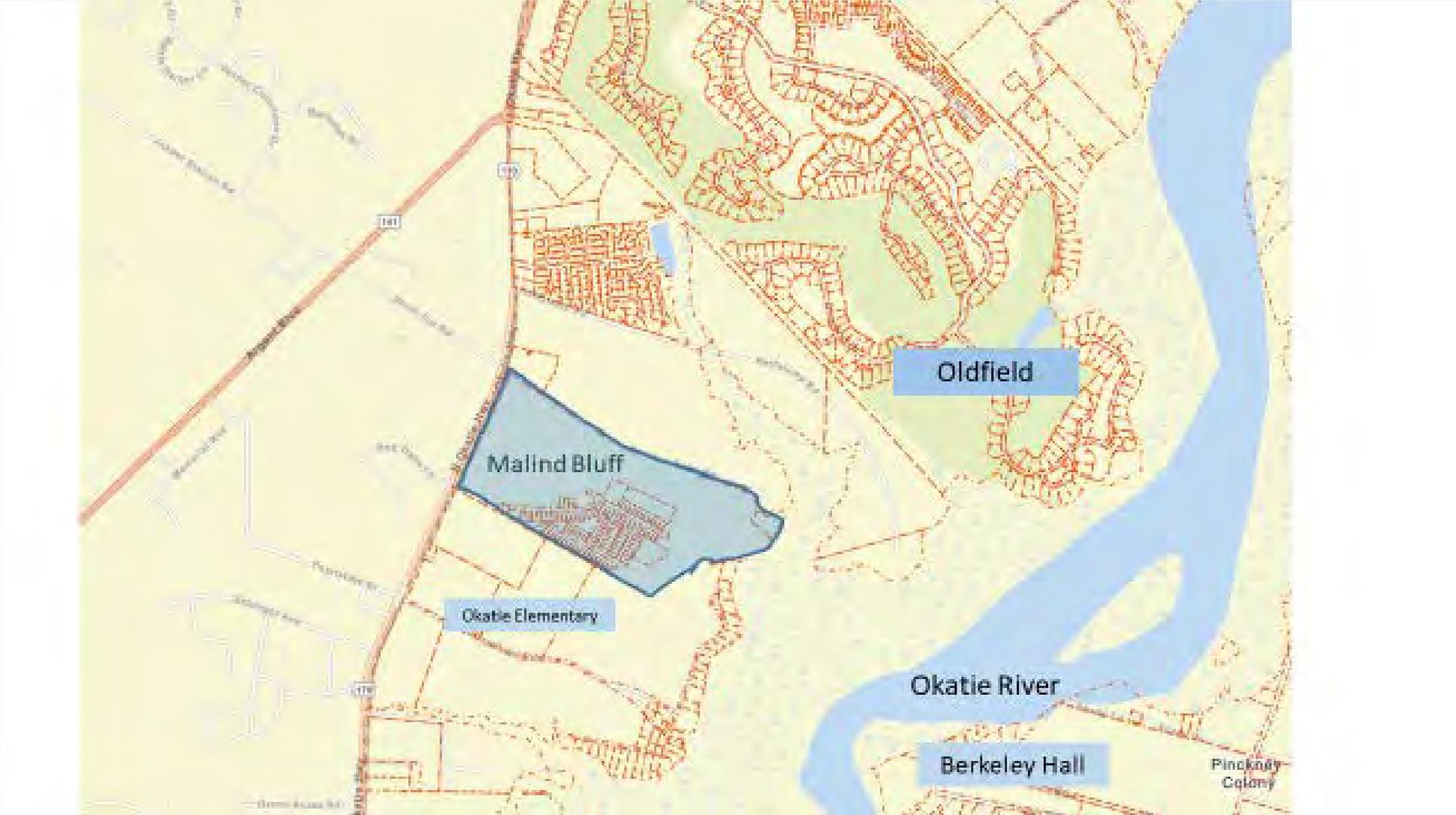
- Reviewed for the following BMP's and Features
 - *Silt Fencing*
 - *Concrete Washout Areas*
 - *Inlet protection*
 - *Dust Control/Sweeping*
 - *Permanent/Temporary Seeding for bank stabilization*
 - *Construction Entrance*
 - *Reasonable layout of permanent BMP's and conveyance systems*
 - *BMP Maintenance Agreement*

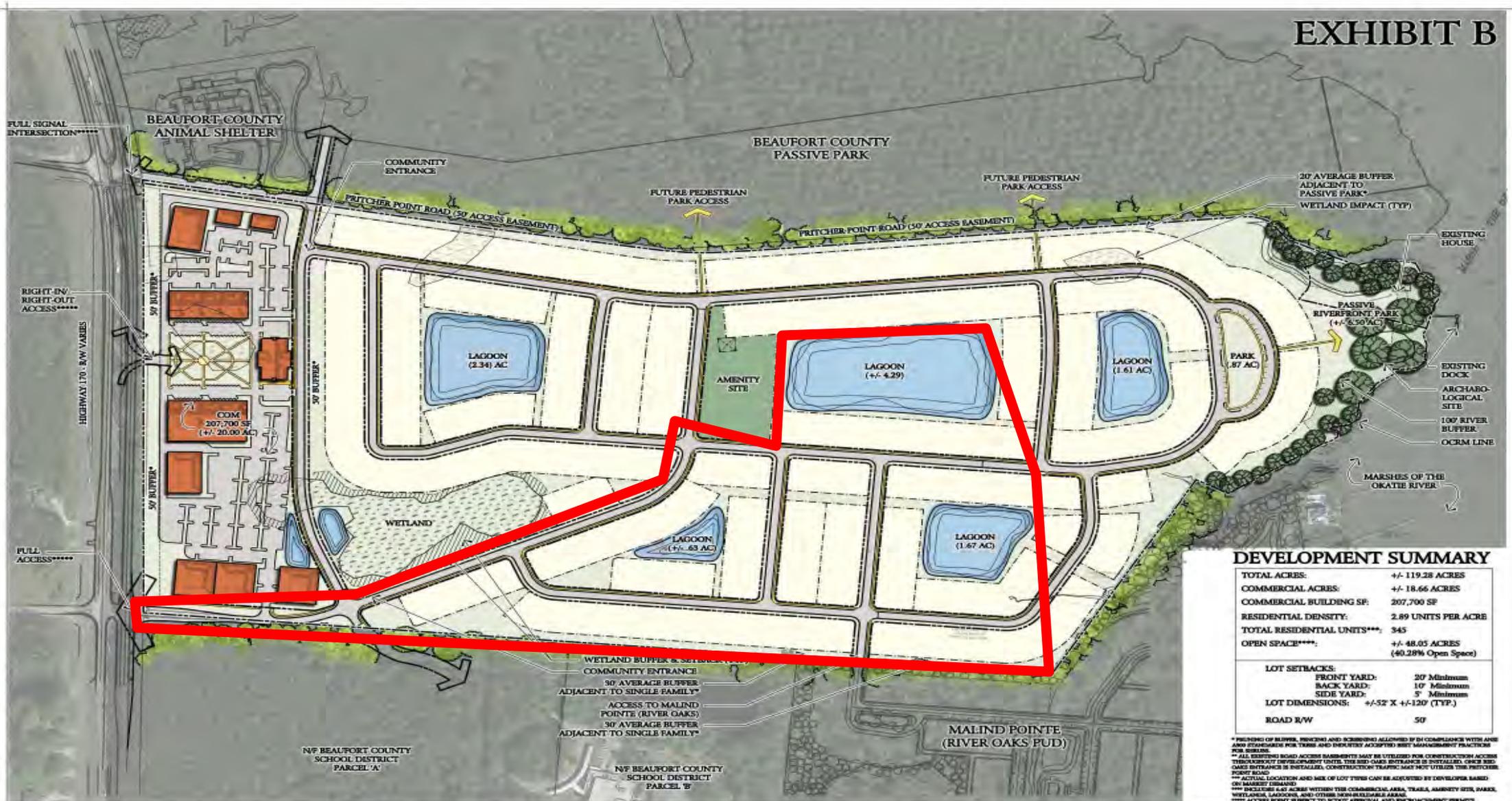
The goal at this stage is to insure construction will not cause sedimentation, erosion or pollution issues to receiving waterbodies

Final Review

- Plans and Information are reviewed for the following
 - *Properly Designed Permanent BMP's to address the County's water quantity and quality requirements*
 - *A C-SWPPP with a detailed scope of stormwater management and sediment control, possible sources of pollution and how to address them, inspection and maintenance requirements, drainage maps, engineering reports with rainfall run-off calculations for the 2yr, 10 yr, 25 yr, 50, 100yr, and 95th percentile storms, to name a few things*
 - *Demonstration that the post-development property will discharge less than or equal to the same amount of water and pollutants as the pre-development property did.*

Vicinity Map





DEVELOPMENT SUMMARY

TOTAL ACRES:	+/- 119.28 ACRES
COMMERCIAL ACRES:	+/- 18.66 ACRES
COMMERCIAL BUILDING SF:	207,700 SF
RESIDENTIAL DENSITY:	2.89 UNITS PER ACRE
TOTAL RESIDENTIAL UNITS***:	345
OPEN SPACE****:	+/- 48.05 ACRES (40.28% Open Space)
LOT SETBACKS:	
FRONT YARD:	20' Minimum
BACK YARD:	10' Minimum
SIDE YARD:	5' Minimum
LOT DIMENSIONS:	+/- 52' X +/- 120' (TYP.)
ROAD R/W:	50'

* WIDTHS OF BUFFER, FENCE AND SCREENING ALLOWED BY IN COMPLIANCE WITH ADE AND STANDARDS FOR TRAILS AND IMPROVED ACCEPTED BEST MANAGEMENT PRACTICES FOR BUFFERING.
 ** ALL EXISTING ROAD ACCESS DRIVEWAYS MAY BE UTILIZED FOR CONSTRUCTION ACCESS THROUGHOUT DEVELOPMENT PERIODS. THE SIDE YARD SETBACK IS INSTALLED, ONCE SIDE YARD ENTRANCE IS INSTALLED, CONSTRUCTION TRAFFIC MAY NOT UTILIZE THE PRITCHER POINT ROAD.
 *** ACTUAL LOCATION AND SIZE OF LOT TYPES CAN BE ACQUIRED BY DEVELOPER BASED ON MARKET DEMAND.
 **** INCLUDES ALL ACRES WITHIN THE COMMERCIAL AREA, TRAILS, AMENITY SITES, PARKS, WETLANDS, LAGOONS, AND OTHER OPEN SPACE AREAS.
 ***** ACCESS POINT SUBJECT TO SCENIC APPROVAL AND ENCOURAGEMENT PERMITS

PREPARED FOR:
LCP III, LLC



PREPARED BY:
J. K. TILLER ASSOCIATES, INC.
LAND PLANNING LANDSCAPE ARCHITECTURE
1500 PINCKNEY COLONY ROAD SUITE 101 BLUFFSPRING SC 29925
TEL: 803.812.1200 FAX: 803.812.1200

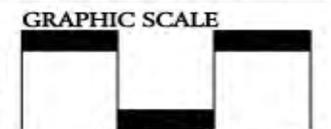


MALIND BLUFF MASTER PLAN

BEAUFORT COUNTY, SOUTH CAROLINA
JUNE 5, 2019



NORTH



GRAPHIC SCALE

0 200' 400' 600'

THIS IS A CONCEPTUAL PLAN AND IS SUBJECT TO CHANGE. ALL SURVEY INFORMATION AND SITE BOUNDARIES WERE COMPILED FROM A VARIETY OF UNVERIFIED SOURCES AT VARIOUS TIMES AND AS SUCH ARE INTENDED TO BE USED ONLY AS A GUIDE. ALL PROPERTY LINES, TRACT DIMENSIONS AND NARRATIVE DESCRIPTIONS ARE FOR GRAPHIC REPRESENTATION ONLY, AS AN AID TO SITE LOCATION AND POTENTIAL LAND USE, AND ARE NOT LEGAL REPRESENTATIONS AS TO FUTURE USES OR LOCATIONS. J. K. TILLER ASSOCIATES, INC. ASSUMES NO LIABILITY FOR ITS ACCURACY OR STATE OF COMPLETION, OR FOR ANY DECISIONS (REQUIRING ACCURACY) WHICH THE USER MAY MAKE BASED ON THIS INFORMATION. JKT Job Number: 201751-01

S:\2019\20190610\MASTER PLAN\MALIND BLUFF MASTER PLAN\CD 10202019.MXD, TITLE: 10/20/2019 4:28:04 PM

BMP's in Use for This Project

- During the active construction phase the following BMP's will be use to insure water quality:
 - *Silt Fencing*
 - *Concrete Washout Areas*
 - *Inlet protection*
 - *Sediment Tubes*
 - *Dust Control/Sweeping*
 - *Permanent/Temporary Seeding for bank stabilization*
 - *Construction Entrance*
- To permanently address the volume control and water quality of this project, three separate wet detention ponds are proposed. These ponds will treat collected stormwater for sedimentation, phosphorus, nitrogen, and fecal coliform bacteria to conform to the MS4 standards in place with Beaufort County.
- 30' vegetative perimeter buffers and a 60' river buffer will also assist in disconnecting run-off onsite

Questions and Concerns

Please feel free to ask any questions you may have in regards to this development and I will address them to the best of our abilities.

Thank you



Southern Lowcountry Design Manual and Ordinance

Town of Port Royal

September 2nd, 2020



Southern Lowcountry Design Manual and Ordinance

- Project initiated by Beaufort County with the support of 5 other municipalities, including Town of Port Royal in 2018
- The “SoLoCo” Technical Subcommittee has held multiple meetings with the municipalities and Center for Watershed Protection (CWP)
- Center for Watershed Protection, in conjunction with McCormick Taylor, put together the document, ordinance language, and supporting appendices



2020 Timeline

January 6th 2020
Draft Manual and Ordinance available
online for Public Comment.

○ January

January 28th 2020
Beaufort County hosted a public meeting to
provide time for citizen input.

February 17th, 2020
Public comment period closed.

○ February

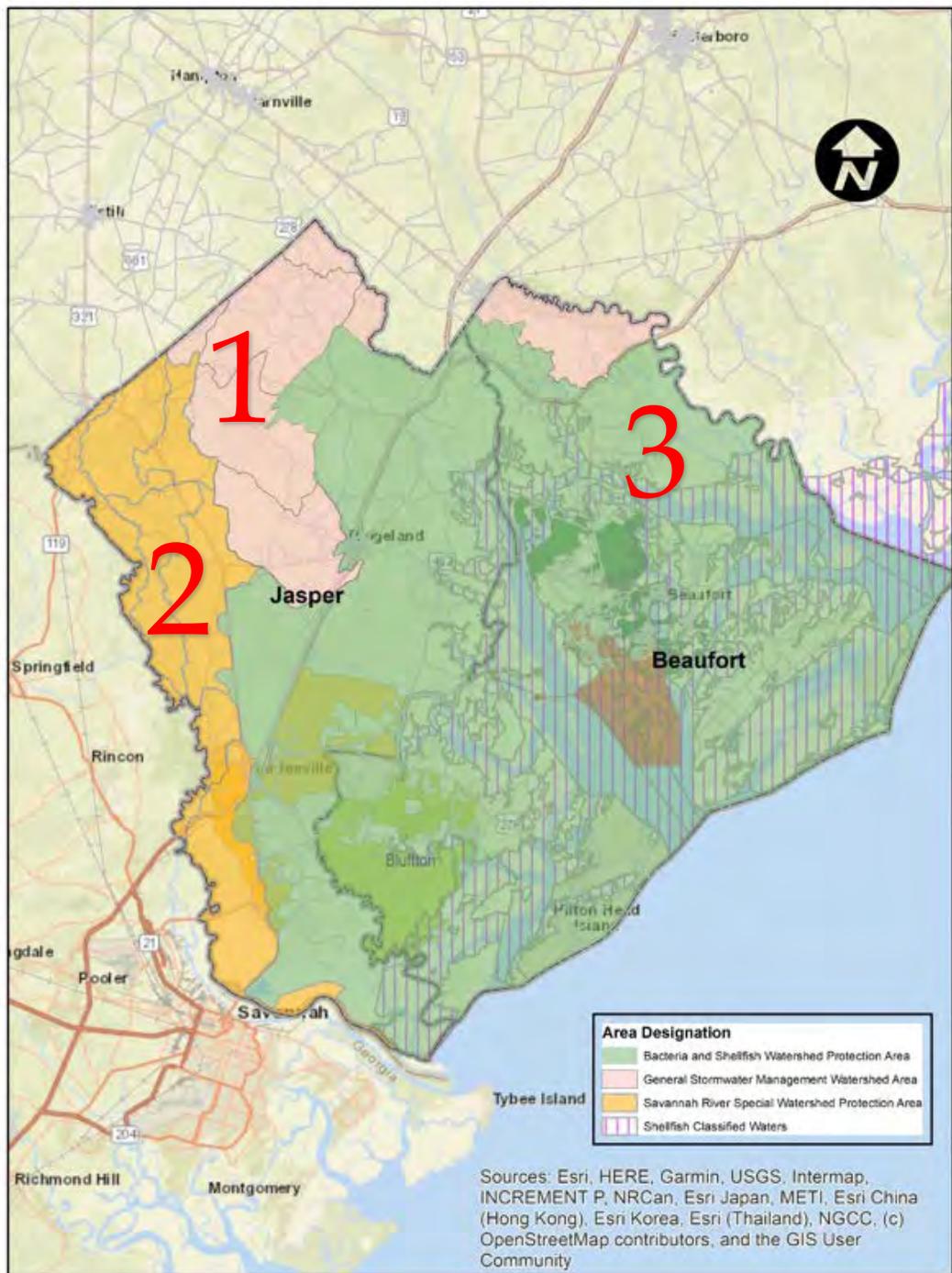
March 6th, 2020
Meeting to review public comments

○ March

March 20th, 2020
Second meeting to review public comments.

March 31st, 2020
Final document provided to all
municipalities.





1 General Stormwater Management Watershed Protection Areas	2 Savannah River Watershed Protection Area
<p>1 Overall Performance Requirements</p> <ul style="list-style-type: none"> Water Quality: Implement Better Site Design, maintain pre-development hydrology of the site to the Maximum Extent Practicable (MEP) for the 85th percentile storm event. Peak Control: Control post-development peak runoff discharge rate to pre-development rate for: 2-, 10- and 25-year, 24-hour design storm events. Accommodate the 100-year, 24-hour storm event conveyance through the site and downstream without causing damage/inundation to structures. Provide 10% rule analysis. As a pollutant removal minimum, intercept and treat stormwater runoff volume to at least an 80 percent reduction in total suspended solids load, 30 percent reduction of total nitrogen load and 60 percent reduction in bacteria load. Complete a natural resources inventory for new site development applications. 	<p>2 Overall Performance Requirements</p> <ul style="list-style-type: none"> Water Quality: Implement Better Site Design, retain the 85th percentile storm event on-site to the MEP or obtain off-site credit. Peak Control: Control post-development peak runoff discharge rate to pre-development rate for: 2-, 10- and 25-year, 24-hour design storm events. Accommodate the 100-year, 24-hour storm event conveyance through the site and downstream without causing damage/inundation to structures. Provide 10% rule analysis. As a pollutant removal minimum, intercept and treat stormwater runoff volume to at least an 80 percent reduction in total suspended solids load, 30 percent reduction of total nitrogen load and 60 percent reduction in bacteria load. Complete a natural resources inventory for new site development applications.
Rationale	Rationale
The previous Jasper County stormwater design manual specified these overall performance requirements.	The Savannah River watershed adjoins Georgia counties that are subject to similar overall performance requirements as outlined in the Georgia Coastal Stormwater Supplement.

3 Bacteria and Shellfish Watershed Protection Area
<p>3 Overall Performance Requirements</p> <ul style="list-style-type: none"> Water Quality: Implement Better Site Design and retain the 95th percentile storm on-site with approved infiltration/filtering BMPs. Fulfill MEP requirements or, as a last resort, fulfill off-site credit and/or fee-in-lieu requirements. As a pollutant removal minimum, intercept and treat stormwater runoff volume to at least an 80 percent reduction in total suspended solids load, 30 percent reduction of total nitrogen load and 60 percent reduction in bacteria load.
Rationale
The Bacteria and Shellfish Watershed Protection Areas are either impaired or have TMDLs, or the receiving waters are classified for shellfish harvesting. These watersheds require greater protection due to their Clean Water Act status or water quality classification. The site's natural resource inventory is a necessary component of permit application.

Similarities with current BMP manual

Overall, document is very similar

- Water quantity for designed storm events (2, 10, 25, 50, 100 yr)
- Land disturbance of 5000 sq ft or more
- BMP's for water quality and quantity



Changes from current BMP manual

- Better Site Design
- Water Quality requirements
- Escalating Enforcement Plan (EEP)



Better Site Design (BSD)

January 1st, 2020

- BSD optional
- Opportunity to become familiar with concept
- Offer trainings for engineering groups
- Incentivize early adoption of BSD principles



January 1st, 2021

- BSD will become mandatory for all permitted projects within Beaufort County
- BSD will still be incentivized for property owners



Interdepartmental Reviews



Implementation Timeline for Beaufort County

August 2020

Finalize all interdepartmental reviews and finalize document for adoption.

September 9th, 2020

Present new SoLoCo standards and Ordinance at Stormwater Utility Meeting.

October 5th, 2020

Send SoLoCo to Natural Resources Committee for approval.

October 26th, 2020

First reading at County Council.

November 9th, 2020

Second reading at County Council.

December 14th, 2020

Third and final reading of project at County Council.

January 1st, 2021
Implementation.

August

September

October

November

December

January





BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, October 14, 2020
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 – September 12th, 2020 ([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
 - A. Utility Update – Katie Herrera ([backup](#))
 - B. Monitoring Update – Katie Herrera ([backup](#))
 - C. Stormwater Related Projects – Katie Herrera ([backup](#))
 - D. Upcoming Professional Contracts Report – Katie Herrera ([backup](#))
 - E. Regional Coordination – Katie Herrera ([backup](#))
 - F. Municipal Reports – Katie Herrera ([backup](#))
 - G. MS4 Update – Katie Herrera ([backup](#))
 - H. Maintenance Projects Report – Matthew Rausch ([backup](#))
5. UNFINISHED BUSINESS
6. NEW BUSINESS
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
 - A. November 10, 2020 ([backup](#))
9. ADJOURNMENT