



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, January 8, 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 – December 11, 2019 ([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
 - A. Utility Update – Daniel Rybak ([backup](#))
 - B. Monitoring Update – Daniel Rybak ([backup](#))
 - C. Stormwater Implementation Committee Report – Daniel Rybak ([backup](#))
 - D. Stormwater Related Projects – Daniel Rybak ([backup](#))
 - E. Upcoming Professional Contracts Report – Daniel Rybak ([backup](#))
 - F. Regional Coordination – Daniel Rybak ([backup](#))
 - G. Municipal Reports – Daniel Rybak ([backup](#))
 - H. MS4 Update – Daniel Rybak ([backup](#))
 - I. Maintenance Projects Report – Matthew Rausch ([backup](#))
5. UNFINISHED BUSINESS
 - A. RV Park Update – Daniel Rybak
6. NEW BUSINESS
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
 - A. February 12, 2020 ([backup](#))
9. ADJOURNMENT

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

December 11, 2019 at 2:00 p.m. in Executive Conference Room, Administration Building, Beaufort County Government Robert Smalls Complex, 100 Ribaut Road, Beaufort, South Carolina

Draft Minutes 12/12/2019

Board Members

Present

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

Absent

Ex-Officio Members

Present

Van Willis
Kim Jones
Nate Farrow

Absent

Scott Liggett

Beaufort County Staff

Daniel Rybak
Melissa Allen
Katie Herrera
Amber Woods
Carolyn Wallace
Brittany Ward
Kurt Taylor

Visitors

Alan Warren, USCB
Alice Howard, County Council
Ellen Sturup Comeau, Clemson Extension
Henry Porter, SCDHEC
Mike Marcus, SCHEC
Lamar Taylor, City of Beaufort

1. Meeting called to order – William Bruggeman

- A. Agenda – A motion was made and approved to move the Special Presentation by SCDHEC after Item #3, Public Comment(s) in the Agenda. Approved with amendment.
- B. November 13, 2019 Minutes – Approved.

2. Introductions – Completed.

3. Public Comment(s) – None.

* Special Presentation - Able Site, SCDHEC

1) Henry Porter, Chief of the Bureau of Land and Waste Management with SC Department of Environmental Control shared an update on the Able Site. [Presentation Attached](#). The site is being done under solid waste and superfund removal programs. Able Contracting began taking material on site in 2013. In 2014 they registered as a Recycled Material Processing Facility. They were required to recycle 75% (by weight) of the material that was brought on site. Most of the material on site is wood and plastic, primarily recycling concrete and metal. In 2018 the General Assembly changed the solid waste policy act and they were required to apply for a permit. Able Contracting met the deadline and applied in May 2019.

On June 3rd DHEC was notified that there was a fire at the site and on July 3rd DHEC issued Cease and Desist Letter to not allow more material to come onsite until they could extinguish the

fire. DHEC was monitoring air quality and eventually EPA was as well. Based on the particulate matter in the smoke an Emergency Order was issued on July 31st. The site operator said he was financially unable to continue fighting the fire; he lost business due to media attention. Under DHEC authority, they went in with their contract to begin firefighting activity. Jasper County evacuated a nearby trailer park.

The size of the site is a little over six acres and the pile was high as 60 feet in areas. The owner was moving hoses and applying water to the open flames. The water was running off the pile into drainage ditches and offsite. DHEC was concerned about the smoke and what kind of impact was the runoff from the pile was having. On August 12th DHEC's emergency response contractor began removal. DHEC had a limited amount of funds in an emergency fund, about a quarter of a million, and it was expended in about a week time frame. EPA found acrolein in the smoke and came in under their authority and began firefighting activities and debris removal. EPA was onsite until October 15th when it transitioned back to DHEC.

Mr. Porter shared aerial photography showing the amount of progress in debris removal. The runoff from the pile was being collected in sumps. The vac-truck sucked water out of them and through an agreement with BJWSA, the water was put into the sanitary sewer system to be treated. As of yesterday (December 10th), 94,515 ton had been removed from the site and estimate that the site will be complete about the second week of January. DHEC provides daily updates of the activities on their website. A drone flight done on December 10th of the site was shared.

Question and discussion followed the presentation:

Was it [the cause] spontaneous combustion? – DHEC thinks it was, as it is burning deep into the pile, almost down to the ground surface.

Regulations now to prevent this type of operation? - Wouldn't prevent an operation that was conducted appropriately, but would prevent a similar situation to this. 75% has to be recycled, but it is 75% along with the material that is currently on the site.

What is the definition of recycled? - There are streams that can be recycled that have value and some that may not. They were taking in mixed construction and demolition material (wood, paint cans, etc.). There is less demand for plastics and wood than there is for concrete, bricks and metal.

What happens when DHEC leaves the site? – All the debris on site should be removed, if there is future activity on the site, they are under a stormwater permit. It all depends on the future plans for the site.

What is under the pile? - Most of what DHEC has found is soil, but the owner has indicated that he had concrete pads in the area where material is [that hasn't been removed].

Has waterline treatment been conducted? - There is an onsite well and several wells associated with the trailer park and nearby residents. Didn't find anything that exceeded the safe drinking water standards in results.

See similar at other sites or is this unusual? – This is the worst of any of the sites with similar types of activities. There are about 90 material recycling facilities, but many are only one stream of material. There are between 6-9 facilities that are recycling mixed construction; think 4-5 may apply for permit to continue operations.

What force does DHEC have to enforce regulations? – The General Assembly will change a law/statute and then DHEC will change the regulations, have more detail how to ensure facilities meet the requirements in the law. One change, will have to have financial assurance, some money set aside to be able to clean up a site if they walked away from a site and complies that are viable to conduct that type of operation. Able site owner doesn't have money to fight the fire or remove

debris. DHEC will ask General Assembly to replenish funds and plan to do cost recovery that has been expended.

Where is the material going? It is going to Oakwood (Jasper), which is a class 2 landfill.

2) Mike Marcus, Chief of Bureau of Water with SC DHEC shared what the Bureau of Water has been doing in relation to the Able site. [Presentation Attached](#). The program administers the stormwater permit that this facility has, which they were not in compliance. They designed two studies for bacteriological and nutrients (nitrogen/phosphorous) and chemical contaminants. He showed the overall study area, near shellfish area 18.

For the bacteria and nutrient assessment the department has four rounds of sampling planned and they are being done during an ebbing tide. The dry weather sampling was completed in August and one wet weather was completed in October. The charts in the presentation show the results. DHEC will go in the direction the results take them. Ms. Kim Jones asked if they are doing microbial source tracking. He responded they are trying to get it honed into general areas.

For the chemical contaminant assessment they designed a study and the field work has been complete. They looked at the water column, sediment and tissue of oysters and crabs. Started at 170 and moved out. Mr. Marcus shared the parametric coverage used. They like oysters since they stay in place; crabs have a home range of 6 to 8 miles. Two ecological assessments done for oysters: oyster standing stock and oyster health.

Once they get the data from water, sediment and tissue and pair it up with ecological work, they will see where and when supplemental work will need to be done. Sediment samples were collected from ditches near the Able site. He commented it would be great if there was a particular compound or two that was a signal for the site, but based on experience unlikely.

In reference to ground water, they haven't done a targeted assessment, but with the wells they took the superfund approach and analyzed a target compound list and target list for metals. They went a second time and sampled under the drinking water methods. They also analyzed for p.phos compounds and they were all non-detect. DHEC was glad that the ground water was not affected.

Question:

Is the sampling in addition to area 18 regular sampling? - The only sampling that is done in regular sampling is bacteria. Where they can, they will make a comparison for bacteria.

4. Reports – Mr. Daniel Rybak provided a written report which is included in the posted agenda and can be accessed at:

<https://www.beaufortcountysc.gov/stormwater-management-utility-board/agendas/2019/121119.pdf>

A. Utility Update – Daniel Rybak

In reference to item #1, the committee met on November 18th and December 4th to continue going through comments and are 3/4 of the way through the design manual. The draft is due to be finalized at the first of the year, posting for public comment around January 2, 2020 and close after six weeks. The public stakeholder meetings are planned for January 21-23.

In reference to delinquent accounts, County Council voted to move forward with an investigation phase with Gentry Locke Attorneys with a \$75,000 cap. Ms. Brittany Ward, Beaufort County Deputy Attorney, gave an update on the delinquent fees for the federal government. She provided a packet with a breakdown of delinquent stormwater fees and penalties. The penalties are not sent to the individual municipalities. There is over \$7 million in stormwater fees owed from the federal government. Each of these individual entities has

been contacted by Ms. Ward and she has reached out to House of Representatives and Senators as well. County Council support will allow a pre-litigation phase for the law firm to work with the County to review documents and advise of the likelihood of winning a lawsuit, any potential negotiations and what the County should do about it. There is one similar pending lawsuit in Wilmington DE and a hearing is set for Spring 2020.

Questions and Discussion:

Why is the County not handling this? - It is not a small task, County legal is a staff of three and cannot handle. The law firm also has expertise in this field that our department does not.

Has the firm had a stormwater case? - Yes, they have successfully litigated a similar case, but it was against a railroad corporation rather than the federal government. The only case that is similar to our situation being litigated is coming out of Delaware and is still pending. Any potential law suits can only assume to have been negotiated out of the courtroom.

Discussion about how the County is specifically set up as fees and not taxes. Ms. Ward indicated the law firm the County would be hiring has reviewed them and feels confident they are fees and not taxes.

Ms. Ward explained that the fee proposal for Phase 1 Investigations with Gentry Locke is not to exceed the \$75,000. They are willing to work with the County and the goal is not to exceed it. If the County moves forward with negotiations or litigation, the \$75,000 would go toward the overall payment to the law firm.

A motion was made to approve the \$75,000 to move forward with the investigation phase to recoup the stormwater fees from the Federal government.

Discussion –

What goes into the investigative aspect? – They will review ordinance, applicable state and federal laws (Clean Water Act), collecting data that is necessary.

Distinction between taxes and fees hasn't been addressed.

Mr. Patrick Mitchell expressed that he opposes, due to relationship with the military.

Mr. Van Willis asked if there has been a federal law passed to pay stormwater fees. Ms. Ward said yes, the Clean Water Act. She explained in regards to the relationship that the County has with the Federal Government located in Beaufort County, that the legal department recognizes the long standing, and beneficial, relationship, which is why over the last nine months the County has made such a great effort over to discuss this issue with them. Specifically contacting them on six occasions and had two meetings and three conference calls with different individuals representing the federal government. They left two of the meetings, indicating they weren't paying.

In response to a question, Ms. Alice Howard shared that Council decisions [to support] was not unanimous, but was a majority. She expressed (from the other side) it is definitely a question of fee versus tax.

Mr. James Clark expressed concern of fairness as they bases don't get the money back. They pay for all their own engineering, maintenance design, etc.

Ms. Ward expressed the ordinance is put in place and fees are assessed and included on the tax bill. They are required per ordinance, like any other citizen, to pay in full, at which point they can submit to the department an appeal. If they provide the correct documentation, they can receive a credit if inaccurate. They are refusing to pay.

Question about if it is on a total contingency basis.

Mr. Clark commented there is a difference between discharge directly to ocean and rivers of the state and county inland areas.

Ms. Ward expressed her position is from a legal standpoint, that they should pay it and then they have the right to dispute it like any other citizen.

The motion passed 5-2. YAYS – Mr. Schneider, Mr. Bruggeman, Mr. Andrews, Mr. Feinberg, and Mr. Fargher. NAYS – Mr. Mitchell and Mr. Clark.

Mr. Rybak reminded municipalities of the annual financial report.

B. Monitoring Update – Daniel Rybak

Dr. Allen Warren commented that the lab is busy. He shared about a recent opportunity to help analyze stormwater for a science project.

Mr. Rybak shared that Dr. Eric Montie’s report on May River was delivered; link included in the packet. This report ties into the regional ordinance and stormwater design manual. He shared two articles, one from the Bluffton Today ([article](#)) and one from the Bluffton Packet ([article](#)). These caused quite a stir and discussion within the community. He expressed that the stressors are greater than the efforts to mitigate them. With public comment period, have the opportunity to address some of the concerns from the community. Timing of the completion of the regional ordinance and design manual is appropriate.

In response to a comment, Mr. Rybak shared that it will adopt a new process that is equivalent and stricter than what is currently in place. It will be watershed based instead of by jurisdiction.

Comments and discussion about developments and its impact.

Ms. Jones suggested the board may want to hear Dr. Montie’s presentation Discussion about considering doing similar study of other rivers.

C. Stormwater Implementation Committee (SWIC) Report – Daniel Rybak

Please reference the report, no additional updates.

D. Stormwater Related Projects – Daniel Rybak

In reference to the Graves Property (Item #6), there is a planned meeting to take place in January. Brief discussion took place about the joint agreement. Ms. Howard shared her concerns with the project, as she voted against it as did the stormwater board. Not sure where the money is coming from. Mr. Rybak will be monitoring and based on the agreement get a system in place to account for the money involved and keep them within the lines of the agreement.

Item #9, Lady’s Island Plan/Sea Level Rise, the committee met on November 21st to discuss comments on the draft ordinance.

E. Professional Contracts Report – Daniel Rybak

In reference Salt Creek and Shanklin Road, 30% design submittal is under review. Brewer Memorial project, successful in getting a notice of intent to grant easement from the property owner. Evergreen project, 90% design submittal under review.

F. Regional Coordination – Daniel Rybak

Ms. Jones provided a modeling update; there is a data gap and transfer issue, so they are about a month behind schedule completing the model. The Joint Councils Meeting will be following the February SOLOCO meeting, regional sewer extension at Rotary Community Center.

G. Municipal Reports – Daniel Rybak

Ms. Jones shared that the Town of Bluffton's report is on their website under Consent Agenda

Mr. Farrow indicated that the piping project at Twin Lakes is completed. Battery Shores is another in house piping project that is in the beginning phases.

Mr. Willis shared that the Town of Port Royal just finished up the 12th Street piping project. The Town is getting in bids for the Cypress Wetlands restoration project.

H. Municipal Separate Storm Sewer System (MS4 Update) – Daniel Rybak

Mr. Rybak briefly went over the MS4 activity comparisons and weather station charts. The Pond Conference on November 14th had 75 participants. Ms. Ellen Sturup Comeau shared that 40 participants filled out feedback and it was overwhelming positive response. She is working with Abby with DNR to get Healthy Pond workshops going. They will be hosting LID workshops in May 2020. [LSP Report Attached](#).

Ms. Jones shared that the Town of Bluffton is changing enforcement response procedure starting the first of the year; no longer will be issuing Notice to Comply. Will have two to five days to rectify the issue.

Beaufort County's annual MS4 report was submitted to DHEC on November 26th.

I. Maintenance Projects Report – Daniel Rybak

Please reference the report, no additional updates.

5. Unfinished Business –

Mr. Bruggeman asked if there was an update on the RV park that the concerned citizens were at the board about. Mr. Rybak will check into this and follow up.

6. New Business –

A. Special Presentation – Able Site, SCDHEC – (see above *Special Presentation)

7. Public Comment(s) – Mr. Mitchell commented that Dr. Warren brought up a good question about do we know what the government has for stormwater on the facilities in question. In regards with sediment and erosion control, he shared that he has done some large projects on base and their inspectors were out on the site once or twice a week. They were very strict and ensured violations were repaired immediately.

8. Next Meeting Agenda – Approved.

9. Meeting Adjourned



South Carolina Department of Health and Environmental Control

Able Contracting Site Update

December 11, 2019

History

- Registered as a Recycled Material Processing Facility - February 2014
- Submitted Permit Application for a Construction & Demolition Recycling Facility – May 2019

History

- DHEC notified of Fire – June 3, 2019
- DHEC issues a Cease & Desist Letter requiring the fire to be extinguished – July 3, 2019
- DHEC issues an Emergency Order – July 31, 2019
- DHEC monitoring shows potential health impacts to nearby residents from smoke - Jasper County evacuates mobile home park – August 2, 2019



South Carolina Department of Health and Environmental Control







SECURITY
ALERT

POSTED



07/25/2019 11:15



07/25/2019 13:17

History

- DHEC's emergency response contractor begins firefighting and debris removal – August 12, 2019
- EPA assumes firefighting and debris removal – August 16, 2019
- Transition to DHEC lead for firefighting and debris removal – October 15, 2019











Quantities of Debris

- 130,000 – 135,000 cubic yards when DHEC began removal
- Removed –
 - 94,515 tons (~111,000 cubic yards)
 - 10,239 truckloads

Estimated completion by the 2nd week of January

Daily Updates

- <https://www.scdhec.gov/environment/ongoing-projects-updates/able-contracting-fire>

CONTACT US

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South Carolina Department of Health and Environmental Control

Bureau of Water

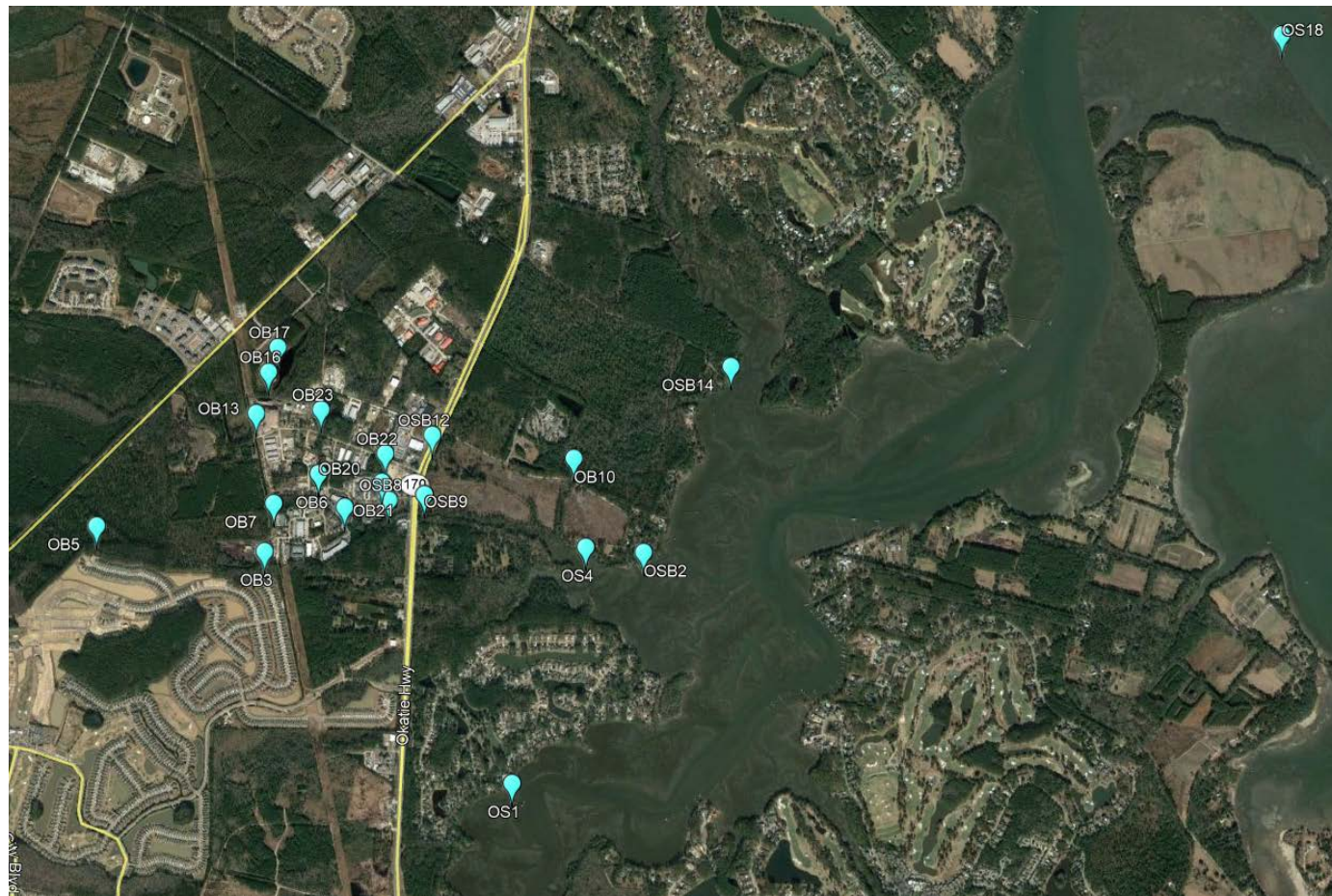
Okatie River

Water Quality Assessment

Okatie River WQ Assessment

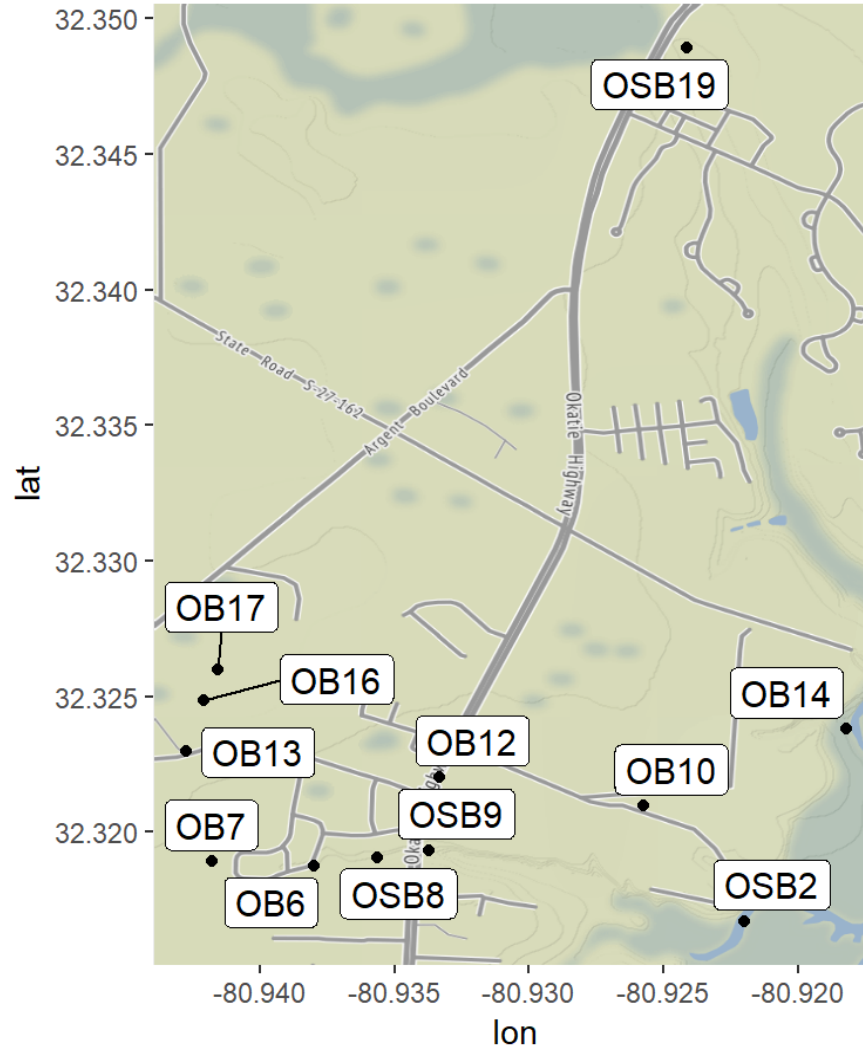
- Two distinct studies
 - Bacteriological and Nutrients
 - Chemical Contaminants

Overall Study Area



Bacteriological & Nutrient Assessment

- Initial focus on area draining the industrial park
- Four Rounds Planned
 - 1 dry weather event (completed)
 - 3 post-wet weather event (1 event completed)
- Parametric Coverage
 - Fecal Coliform A-1, *E. Coli*, Enterococcus
 - Nutrients – NO₂-3, TKN, NH₃, TP



Bacteria Data from Schinger Avenue, Ridgeland, SC Area^a

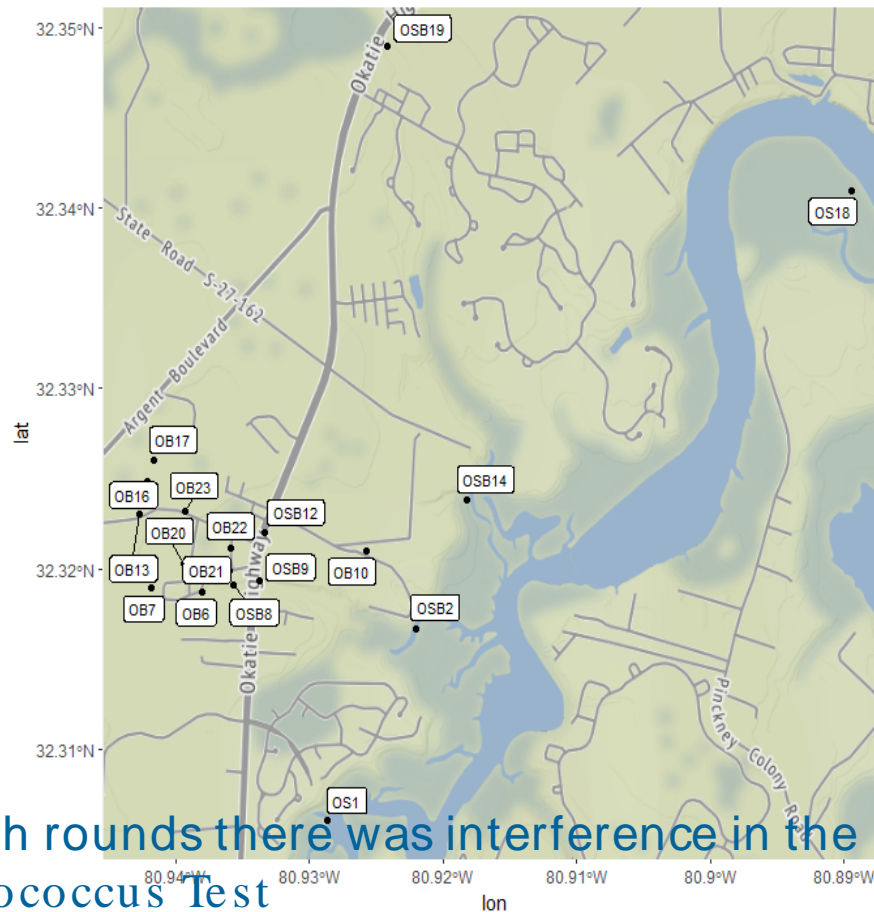
Station	Bacterial Density		
	Fecal Coliform ^b	Enterococcus ^c	<i>E. Coli</i> ^d
	(MPN/100ml)	(MPN/100ml)	(MPN/100ml)
Standard	43	104	349
OB16	1600	364	113.7
OB17	180	97	29.9
OB13	>1600		43320
OB14	17	20	52
OB7	>1600	3654	4611
OB6	34	29.2	25.6
OSB8	1600	1483	2382
OSB2	23	20	20
OSB9	>1600	1333	2613
OB12	130	69.3	3.1
OB10	540	2755	1483
OSB19	79	2613	31.3

^aSamples collected 2019-08-29; dry weather event

^bby method A-1 Fecal Coliform

^cby method Enterococci by Quanti-Tray

^dby method Quanti-tray E.Coli Analysis



In both rounds there was interference in the Enterococcus Test

Bacteria Data from Schinger Avenue, Ridgeland, SC Area ^a			
Station	Bacterial Density		
	Fecal Coliform ^b (MPN/100ml)	Enterococcus ^c (MPN/100ml)	<i>E. Coli</i> ^d (MPN/100ml)
Standard	43	104	349
OB10	920	1299.7	686.7
OB13	13000		275.5
OB16	2400		387.3
OB17	>1600		488.4
OB20	1600	12033	866.4
OB21	>1600	613.1	139.6
OB22	>1600	686.7	67.6
OB23	>1600	1017	980.4
OB6	>1600	301	152.9
OB7	35000	4884	7701
OS1	46	10	41
OS18	2.0	<10	41
OSB12	920	248.9	137.6
OSB14	6.8	41	41
OSB19	1600	1553.1	186.0
OSB2	23	10	52
OSB8	2400	686.7	248.1
OSB9	920	210.5	96.0

^aSamples collected 2019-10-21; wet weather event

^bby method A-1 Fecal Coliform

^cby method 1103.1 Enterococcus

^dby method 8145.1 E. coli

Chemical Contaminant Assessment

- Matrices
 - Water column
 - Sediment
 - Tissue
 - Oyster
 - Crab



Chemical Contaminant Assessment

- Parametric coverage
 - Volatile Organic Compounds (not in tissue)
 - Semi – Volatile Organic Compounds
 - Pesticides
 - Polychlorinated Biphenyls
 - Metals

Chemical Contamination Assessment -- Ecology

- Oyster Standing Stock
 - Size Frequency Distribution
 - SCDNR Method
- Oyster Health
 - Condition Index
 - USC Method (Lawrence & Scott)

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Study: Fecal coliform bacteria levels are rising in May River

By **Dan Hunt**

Posted Oct 25, 2019 at 2:53 PM

A new study shows that fecal coliform bacteria levels in the May River have gradually increased over the past two decades.

Scientists with the Marine Sensory and NeuroLab at the University of South Carolina Beaufort analyzed long-term data collected from 11 shellfish monitoring stations along the May River by the South Carolina Department of Health and Environmental Control. Seven of the stations collected data from 1999 to 2017, the other four from 2009-17.

USCB associate professor Eric W. Montie introduced his team's findings Thursday to the town of Bluffton's May River Watershed Action Plan advisory committee.

Montie, who is a member of the committee, said his primary conclusion is that fecal coliform levels in the May River are gradually increasing while salinity levels are gradually decreasing.

The salinity decrease is worrisome, Montie said, because fecal bacteria can more easily thrive in fresh water than salt. He said the salinity decrease is being caused by two primary factors: increased rainfall and population growth.

Montie said climate change is leading to increased frequency of the weather phenomenon El Niño, which warms waters and leads to more rainfall in climates relatively close to the equator, including the Lowcountry.

Montie said population growth has led to more development and more impervious surfaces, such as roads and driveways, near the river. Increased rainfall and impervious surfaces create more stormwater runoff, Montie said, which contributes to lower salinity levels, allowing fecal bacteria to thrive.

"Sorry for all the bad news," Montie told the committee after he revealed the findings.

Bluffton watershed management division manager Kim Jones said Montie's study is significant not only because of its findings, but because it represents one of the largest sample sizes of local shellfish station monitoring.

DHEC will restrict shellfish harvesting if a location exceeds a fecal coliform geometric mean of 14 MPN (most probable number) per 100 milliliters for the 30 most recent samples analyzed. The agency's protocol is to close shellfish harvesting at both the non-compliant stations and at the next compliant station to provide an additional safety margin.

Four Bluffton-area stations are non-compliant and five are currently closed in accordance with the policy, but most of the river is open to shellfish harvesting.

"The takeaway from Dr. Montie's presentation on the long-term trend of increasing fecal coliform in SCDHEC's data is that we — the town of Bluffton, Beaufort County and our citizens — must continue to work together to decrease the sources of fecal coliform, such as septic tanks, pet waste, horse manure, as well as the amount of stormwater runoff that reach the May River," Jones said.

The advisory committee has developed several town policy changes in recent years in an effort to decrease fecal coliform levels, including a sewer extension and connection policy to eliminate septic systems.

The committee also has recommended regular reviews and updates of the town's stormwater ordinance, which eventually led to the Regional Lowcountry Stormwater Ordinance and Design Manual, which is based on watersheds instead of jurisdictional boundaries. The manual includes Bluffton, Beaufort County, the city of Hardeeville, Jasper County, the city of Beaufort and the town of Port Royal.

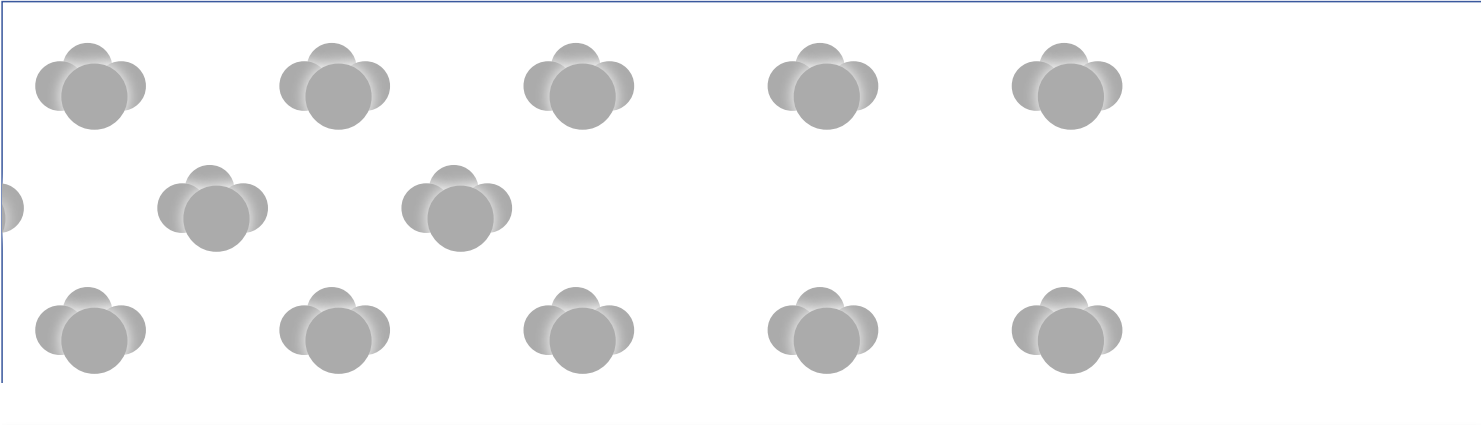
Jones said continued regional coordination will be key moving forward.

Speaking to the committee after Montie's presentation, she said in the months ahead it will need to lead the charge in bringing more policy changes to the town.

"There's climate change that's changing rainfall and weather patterns. We know we have an increase in population. We know we have increased impervious surface. We know we're changing our stormwater design standards on a regional level," she said.

“How do we begin to meld this data into policy recommendations that go into the May River Watershed Action Plan update, the town of Bluffton’s two-year strategic plan, our division’s work plan and budget requests to support that ultimate goal of restoring and protecting shellfish harvesting throughout the May River?”

The committee voted unanimously for Montie’s presentation be repeated before Town Council next month.

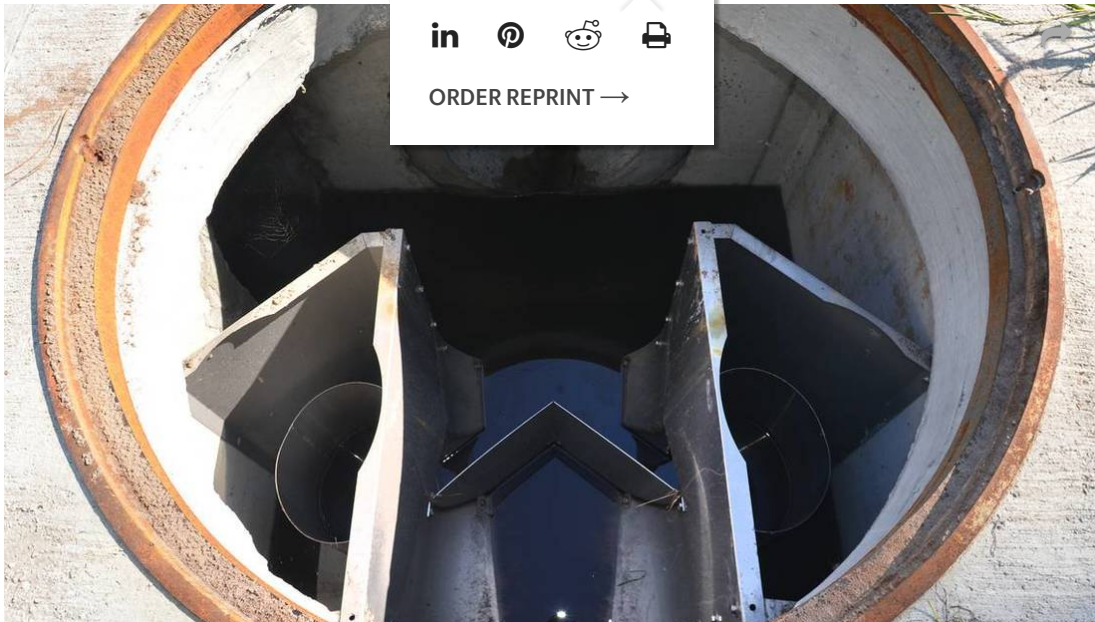


LOCAL

Bluffton's population boom caused rising bacteria levels in May River, study says

BY KACEN BAYLESS

NOVEMBER 14, 2019 07:30 AM



Called a dual vortex separator, this storm water treatment device recently installed by Bluffton along May River Road should help keep pollutants from reaching the May River. Here, Bluffton's director of engineering, Bryan McIlwee, describes how it works. BY JAY KARR

Fecal coliform bacteria levels have been rising in the May River for the past two decades and, in some parts, are above what is considered safe for shellfish harvesting, according to a new study at the University of South Carolina-Beaufort.

The bacteria levels near the headwaters of the May River were 15 to 16 times greater in 2017 than in 1999, according to the study.

The study, commissioned by Bluffton and Beaufort County and led by Eric Montie, an associate professor of biology at USCB, and graduate student Jamileh Soueidan, looked at water quality data collected by the S.C. Department of Environment Health and Control from shellfish monitoring stations along the May River. The study found that Bluffton's building and population boom over the past 20 years has led to increased stormwater runoff, lowering the salinity in the May River and causing fecal coliform to thrive.

TOP ARTICLES



Look inside: Brother Shuckers raw bar opens on Hilton Head in former Jump and Phil's

Heavy rainfall due to increased El Niño events — complex weather patterns caused by the warming of ocean currents — was also a contributing factor to the rise in bacteria levels in the May River, according to the study. DHEC collected water quality samples at seven monitoring stations in the river from 1999 to 2017 and four additional stations from 2009 to 2017.

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Montie said he plans to present his findings to Bluffton Town Council on Dec. 10.

Fecal coliform bacteria — typically originating from the intestines of warm-blooded animals — are analyzed by agencies like DHEC to determine whether disease-causing organisms are present in water bodies. Although not all coliform bacteria may cause illness, their presence indicates that

disease-causing organisms could be in water bodies. Bacteria levels directly impact oyster harvesting. If fecal coliform levels exceed a certain number, shellfish harvesting beds are restricted or closed. According to DHEC's shellfish monitoring map, a large portion of the May River's headwaters are closed for shellfish harvesting.

"This is what DHEC has to do because, otherwise, people can get really sick or die from oysters contaminated with pathogenic organisms," Montie said.

The town of Bluffton and Beaufort County each contributed \$15,000 last November to pay for the USCB study. Montie presented his team's findings to Bluffton's May River Watershed Action Plan advisory committee in late October and said he will continue his research by comparing the data from the May River to other watersheds like the Okatie River if he receives funding. He expects the study to cost \$30,000 per year for the next two years.

Montie said there could be several solutions to the high fecal coliform levels. One source of the bacteria could be human waste from septic tanks. In an ideal world, Montie said, all septic systems would be converted to sewer systems.

"We need to come up with ways to limit development and impervious surfaces like paved roads," he said. "We also need to keep the forested land in our watershed."

He said charging developers higher impact fees for studies on the May River and creating natural wetlands near developments could help alleviate some of the problems.

If development in the May River watershed isn't controlled, "you're going to have deterioration in water quality," he said. "You've got to have some sort of control."

Alan Warren, Environmental Health Science program director at USCB, said the origins of the problem aren't in the river, but in the upland areas surrounding the river. He said Bluffton and Beaufort County have been trying to solve the issue of poor water quality in nearby watersheds, but the problem is getting worse.

Kim Jones, watershed management division manager for the town of Bluffton, did not return a call for comment Wednesday.

Bluffton's population has increased 874% since 2000, according to the U.S. Census, and developers continue to build. The increase in impervious surfaces, such as roads and parking lots, has led to a decrease in water quality of nearby waterways.

The USCB study was released as residents in Bluffton and Beaufort County [have complained publicly about rampant development](#). In recent months, developers have proposed building hundreds more homes.

In many cases, developers whose plans were approved years ago have asked to change their original agreements and increase density. Residents who live along Cherry Point Road, for example, worry about a plan to build [more than 600 homes and a mix of commercial developments](#). They say the plan, called River Oaks, would hurt the water quality of the Okatie River.



KACEN BAYLESS




 843-706-8126

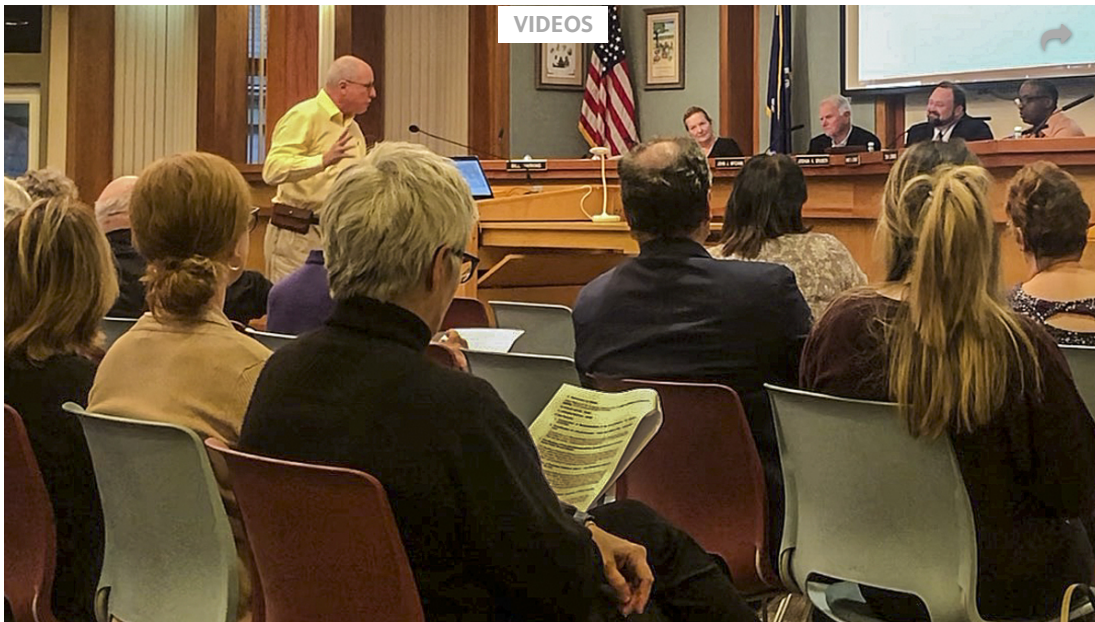
A reporter for The Island Packet covering local government and development, Kacen Bayless is a native of St. Louis,

Missouri. In the past, he's worked for St. Louis Magazine, the Columbia Missourian, KGBA and the Columbia Business Times. He graduated with a Bachelor of Journalism degree with an emphasis in Investigative Reporting from the University of Missouri in 2019.

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COMMENTS ▾



Councilman attempts to humiliate public speaker. He responds, "You're corrupt"



Lowcountry Stormwater Partners (LSP) Stormwater Utility Board Monthly Report
11/12/19 - 12/2/19

Stormwater outreach/involvement activities completed:

- 2019 Beaufort Area Stormwater Pond Conference
 - The 2019 Beaufort Area Stormwater Pond Management Conference provided a forum to give the latest information, resources, and tools on stormwater pond management for the Lowcountry community. Topics include a plenary session, the current state of the knowledge on stormwater ponds, integrated pest management, aquatic weed management, wildlife habitat, sea level rise, and upland management. The conference is a partnership between Clemson Extension, S.C. SeaGrant Consortium, SC Dept. of Natural Resources, and the ACE Basin NERR Coastal Training Program.
 - 11/14/19, Beaufort, 75
- LSP Consortium Meeting
 - The LSP met with its partners and discuss current and upcoming events.
 - 11/19/19, Okatie, 8
- Stormwater and the Saltmarsh presentation
 - Ellen Sturup Comeau gave this presentation to the Lowcountry Master Gardener Association on how stormwater works and how it affects the environment in Beaufort County as well as actions that homeowners can take to reduce their stormwater footprint.
 - 11/21/19, Beaufort, 38

Stormwater outreach/involvement activities planned to take place:

- LSP Newsletter
 - An informative publication for the general public with a small article on a stormwater topic and information on past, current, and future events.
 - 11/28/19, online, 90
- Meeting with the Bluffton Boys and Girls Club to discuss planting a bog garden
 - 12/4/19, Bluffton
- LSP Newsletter
 - An informative publication for the general public with a small article on a stormwater topic and information on past, current, and future events.
 - 12/13/19, online, 90
- Meeting to discuss planning a pervious paver workshop
 - Okatie, 12/16/19
- Cultivating a Carolina Yard Workshop
 - Ellen Sturup Comeau will present an overview of the Clemson Extension Carolina Yards program. The Carolina Yards program teaches homeowners sustainable landscaping practices with a watershed-friendly focus. This workshop will take place at Port Royal Plantation.
 - 1/10/19, Hilton Head
- LSP Consortium Meeting
 - The LSP met with its partners and discuss current and upcoming events.
 - 1/21/19, Okatie
- LSP Newsletter
 - An informative publication for the general public with a small article on a stormwater topic and information on past, current, and future events.
 - 1/24/19, online, 90
- Cultivating a Carolina Yard Workshop Part 1
 - Ellen Sturup Comeau will give the first part of her Carolina Yard workshop, which teaches homeowners sustainable landscaping practices with a

watershed-friendly focus. This offering will focus on building healthy soil, nutrient management, and stormwater runoff. This workshop will be given as part of an OLLI series.

- 1/30/19, Hilton Head
- Cultivating a Carolina Yard Workshop Part 2
 - Ellen Sturup Comeau will give the second part of her Carolina Yard workshop, which teaches homeowners sustainable landscaping practices with a watershed-friendly focus. This presentation will focus upon yard waste management and irrigation practices. This workshop will be given as part of an OLLI series.
 - 2/6/19, Hilton Head
- Buffer Workshop
 - TBD
 - 2/10/19, Hilton Head
- Cultivating a Carolina Yard Workshop Part 3
 - Ellen Sturup Comeau will give the third part of her Carolina Yard workshop, which teaches homeowners sustainable landscaping practices with a watershed-friendly focus. This presentation will focus upon pest management and harvesting rainwater. This workshop will be given as part of an OLLI series.
 - 2/13/19, Hilton Head
- Cultivating a Carolina Yard Workshop Part 4
 - Ellen Sturup Comeau will give the fourth part of her Carolina Yard workshop, which teaches homeowners sustainable landscaping practices with a watershed-friendly focus. This offering will focus upon native plants and waterwise garden planning. This workshop will be given as part of an OLLI series.
 - 2/20/19, Hilton Head
- LSP Newsletter
 - An informative publication for the general public with a small article on a stormwater topic and information on past, current, and future events.
 - 2/21/19, online, 90

Other related activities performed/considered:

- LSP 2019-2023 Strategic Plan writing (complete)
- 2019 Beaufort Area Stormwater Pond Conference planning (complete)
- Planning for 2020 based on LSP Strategic Plan (ongoing)



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

January 8, 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:
 - o SoLoCo Committee met in Bluffton on November 18th and December 4th to continue comment review on the Draft Ordinance and Design Manual. About 3/4 of the documents have been discussed.

Remaining project milestones to be completed:

- o Revised Manual for Public Comment
- o Request for Public Comments
 - Scheduled to begin January 2, 2020
- o Public Comment Period (required to be minimum of 6 weeks)
- o Close of Public Comments Period
 - Scheduled to end February 13, 2020
- o CWP Review of Public Comments Due
- o Committee Meeting to Review Public Comments
- o Final Draft of Ordinance and Design Manual
- o Final Delivery

Public Stakeholder Meetings (Schedule Subject to Change)

- o Date and Time TBD - at the Theodore D. Washington Municipal Building, "Bluffton Town Hall," 20 Bridge Street, in the Henry "Emmett" McCracken Jr. Town Council Chambers.
- o January 23, 2020 from 3:30-6:00 PM at the Palmetto Electric, 1 Cooperative Way, Hardeeville, SC in the Community Room.
- o January 28, 2020 from 4-6 PM at the Beaufort County Administrative Building, 100 Ribaut Road, Beaufort, SC in Council Chambers

2. Regionalization
 - a) Regional Stormwater Design Standard and Model Ordinance Project – See update above.
 - b) Regionalization of programs – Pending 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 –
 - a) Dr. Eric Montie with USCB regarding the Technical Report on the Historical Analysis of Water Quality and Climate Change Endpoints and Monitoring of Natural Resources in the May River
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 – County Council voted in Council Hearing held on November 18, 2019 to move forward with initial, 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. The County Council approval was contingent on an established \$75,000 cap for funding which will come from Stormwater Utility.
(State and Federal accounts make up approx. 97%-98% of the delinquent account value of approx. \$7 million on the ledger)
6. Reminder: Annual Financial report from the Municipalities are due – Per the Intergovernmental Agreements for the Utility, each year on September 30th, the City and Towns are required to submit a summary of revenue and expenditures for the previous fiscal year.
 - a) Beaufort County – Actuals pending CAFR completion.
 - b) Town of Hilton Head Island – Not Received.
 - c) Town of Bluffton – Received. [Report Attached.](#)
 - d) Town of Port Royal – Received. [Report Attached.](#)
 - e) City of Beaufort – Not Received.

Monitoring Update

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

Stormwater Implementation Committee (SWIC) Report

1. The SWIC has not met in the last month.

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) Horse Island – No additional update at this time. Last update: The Stormwater Manager discussed preliminary design and construction cost with the County Administrator and Council member for the area and is awaiting direction.
 - b) Flyover bridge preventative maintenance and deferred maintenance repairs – Last update: Notice to Proceed was issued to JMT for design of erosion repair, traffic control and permitting. Change Order for Critical Line Delineation approved due to original delineation (at time of flyover Bridge permitting) being expired and not allowed by DHEC.
 - c) Shell Point Community Meeting – Follow-up meeting with community is planned for January 2020.
3. Alljoy Subwatershed Flooding – No further action anticipated at this time.
4. 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.
5. 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.
6. Graves Property / Pepper Hall Public / private partnership – Property owner has requested meeting with County Administrator to discuss Joint Developer Agreement implementation/timing. This meeting is scheduled for January 3 2020.
7. Whitehall property purchase – No additional update at this time.
8. US 278 “super street” widening on Jenkins Island (Windmill Harbor area) – No update at this time.
9. Lady’s Island Plan, Sea Level Rise, and “no-fill” ordinance – The Committee met on December 17, 2019 to discuss comments presented on *DRAFT* Ordinance.

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.
 - b) Brewer Memorial – County has been successful in obtaining Notice of Intent to Grant Easement from property owner required to divert flows from SCDOT storm drain line to proposed wetland. Consultant preparing design and submittal to SCDOT.

2. Evergreen Regional Pond 319 grant project – (Design=\$89,286, Construction=\$590,000. Grant=\$229,124) – 90% Design submittal under review

Regional Coordination

1. Town of Bluffton and Beaufort County Joint meetings on Sanitary Sewer in the May River watershed – No additional update at this time. The last meeting was held on July 18, 2019.
2. Mossy Oaks Task Force – (Design \$20,404, Construction \$205,000; County portions only). See Municipal Reports.
3. Charleston Area MS4 managers group – No additional update at this time. The last meeting was held on July 25th in Charleston.
4. May River Watershed Modeling – See municipal reports for more information.
5. Port Royal Sound Conservation Working Group – No additional update at this time. This group last met on June 14th.

Municipal Reports

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

MS4 Report

1. Plan Review – [See the attached chart](#) for Beaufort County Stormwater staff plan review workload for the past 12 months.
2. Stormwater Permits – [See the attached chart](#) for Beaufort County Stormwater permits issued for the past 12 months.

3. Monthly Inspection summary - [See the attached chart](#) for Beaufort County Stormwater staff inspection, complaint, IDDE, and violations summary for the past 12 months.
4. Weather Station Data. [See attached chart.](#)
5. Public Education – No update at this time.
6. Energov permitting software – No update at this time
7. MS4 Statewide General permit – No update at this time.
8. Statewide General permit for Construction – No update at this time.
9. Able Contracting Site – No update.

**SWU Activity
Audited FY19**

Revenue

21225616	42018	Stormwater Fees	1,484,110.77
21230616	43010	County Funds	<u>15,000.00</u>
		Total Revenue	<u><u>1,499,110.77</u></u>

Org	Object	Project	Description	2019 Actual	
21265616	51000		SALARIES	309,026.44	
21265616	51000	00034	SALARIES	83.90	
21265616	51006		CAR ALLOWANCE	7,200.00	
21265616	51008		RETIREMENT	44,551.63	
21265616	51008	00034	RETIREMENT	12.09	
21265616	51009		MEDICAL	46,078.18	
21265616	51009	00034	MEDICAL	12.26	
21265616	51010		FICA/MEDICARE	23,246.74	
21265616	51010	00034	FICA/MEDICARE	6.02	
21265616	51013		WORKERS' COMPENSATION	4,970.16	435,187.42 Total Salaries & Benefits
21265616	53002		MEALS/TRAVEL/LODGING	5,831.16	
21265616	53004		MTGS/CONFERENCES/TRAINING	3,691.50	
21265616	53104		UNIFORMS/PROTECTIVE GEAR	446.08	
21265616	53106		BOOKS/SUBSCRIPTIONS/DUES	4,012.38	
21265616	53110		OFFICE SUPPLIES	2,740.47	
21265616	53112		VEHICLE FUEL	1,629.08	
21265616	53114		ADVERTISING	1,688.72	
21265616	53126		SMALL TOOLS & EQUIPMENT	9,504.50	
21265616	53130		FURNITURE/FIXTURES < 5000	931.51	
21265616	53134		COMPUTER SOFTWARE < 50000	21,945.38	
21265616	53200		CONTRACT SERVICES	76,500.88	
21265616	53204		ELECTRICITY	2,235.62	
21265616	53206		TELEPHONE	14,963.31	
21265616	53208		UTILITIES (WATER & SEWER)	496.69	
21265616	53212		OFFICE EQUIP RENTALS/LEASES	17,011.97	
21265616	53214		POSTAGE	5,484.90	
21265616	53216		PRINTING & BINDING	1,489.01	
21265616	53222		LEGAL FEES	3,627.94	
21265616	53231		DRAINAGE AND DITCH MAINTENANCE	8,894.52	
21265616	53306		FACILITIES MAINTENANCE	7,121.95	
21265616	53307		MAY RIVER WATERSHED ACTION PLA	182,881.30	
21265616	53308		STORMWATER MANAGEMENT	33,190.00	
21265616	57004		SPECIALIZED EQUIP => 5000	39,859.53	446,178.40 Total Other Expenditures
21280013	59901		SWU TO GF TRANSFERS OUT	42,709.00	Public Works and Planning labor expenses related to stormwater mngt.
21280019	59901		SWU TRANSFERS OUT CIP	271,909.65	314,618.65 Total Transfers Out
				1,195,984.47	
	00045		Jason-Able Sewer	4,233.00	
	00052		Town Facility Improvements	13,657.00	
	00034		May River Watershed Action Plan Imp.	123,356.00	
	00041		Buck Island Sewer - Phase 4	3,817.00	
	00044		Buck Island Sewer - Phase 5	54,394.00	
	00070		Historic District Sewer Ext Phase 1	46,548.00	
	00071		Historic District Sewer Ext Phase 2	25,905.00	
				<u>271,910.00</u>	

Town Of Port Royal
General Ledger Detail Transaction Report
Fiscal Year 2018 - 2019

Account Number	Account Description		AM	Journal Date	Type/Num	Reference	Budget Amount	Debit	Credit	Enc/Liq	Act Exp
22-3200-100	STORMWATER MGMT FEES										
	YEAR FORWARD BALANCE										\$0.00
	BEAUFORT COUNTY TREASURER	1	7/9/2018	GJ1752			\$0.00	\$0.00	\$3,029.73	\$0.00	
	BEAUFORT COUNTY TREASURER	1	7/11/2018	GJ1756			\$0.00	\$0.00	\$286.01	\$0.00	
	PRIOR YEAR CASH RECEIPT	1	7/27/2018	GJ1782			\$0.00	\$3,315.74	\$0.00	\$0.00	
	BEAUFORT COUNTY TREASURER	2	8/31/2018	GJ1838			\$0.00	\$0.00	\$610.52	\$0.00	
	BEAUFORT COUNTY TREASURER	3	9/21/2018	GJ1871			\$0.00	\$0.00	\$2,912.46	\$0.00	
	BEAUFORT COUNTY TREASURER	4	10/11/2018	GJ1902			\$0.00	\$0.00	\$2,207.21	\$0.00	
	BEAUFORT COUNTY TREASURER	5	11/13/2018	GJ1959			\$0.00	\$0.00	\$350.24	\$0.00	
	BEAUFORT COUNTY TREASURER	6	12/20/2018	GJ2007			\$0.00	\$0.00	\$15,569.60	\$0.00	
	BEAUFORT COUNTY TREASURER	7	1/17/2019	GJ2042			\$0.00	\$0.00	\$27,978.89	\$0.00	
	BEAUFORT COUNTY TREASURER	8	2/4/2019	GJ2066			\$0.00	\$0.00	\$59,941.46	\$0.00	
	BEAUFORT COUNTY TREASURER	8	2/25/2019	GJ2097			\$0.00	\$0.00	\$63,259.83	\$0.00	
	BEAUFORT COUNTY TREASURER	9	3/5/2019	GJ2108			\$0.00	\$0.00	\$12,190.21	\$0.00	
	BEAUFORT COUNTY TREASURER	9	3/11/2019	GJ2124			\$0.00	\$0.00	\$3,956.24	\$0.00	
	BEAUFORT COUNTY TREASURER	10	4/5/2019	GJ2181			\$0.00	\$0.00	\$713.44	\$0.00	
	BEAUFORT COUNTY TREASURER	10	4/5/2019	GJ2181			\$0.00	\$0.00	\$801.56	\$0.00	
	BEAUFORT COUNTY TREASURER	11	5/15/2019	GJ2305			\$0.00	\$0.00	\$16,408.50	\$0.00	
	PRIOR YEAR CASH RECEIPT	13	6/30/2019	PY2465			\$0.00	\$0.00	\$1,526.25	\$0.00	
	YTD Total for 22-3200-100			STORMWATER MGMT FEES			\$0.00	\$3,315.74	\$211,742.15	\$0.00	(\$208,426.41)
22-4040-191	LEGAL, PROF, ADMIN FEES										
	YEAR FORWARD BALANCE										\$0.00
	MARTIN SWEEP, LLC. 1233 JULY SERVICE	1	7/2/2018	AP1741	Vendor#: 5114		\$0.00	\$1,100.00	\$0.00	\$0.00	
	Invoice # 1233	Invoice Date	7/1/2018	Vendor #	5114	Vendor Name	MARTIN SWEEP, LLC.				
	PO #	PO Date		Check #	60446	Check Date	7/3/2018				
	MAGLIONE CONSULTING, LLC. 18-007	2	8/9/2018	AP1811	Vendor#: 5743		\$0.00	\$1,246.69	\$0.00	\$0.00	
	Invoice # 18-007	Invoice Date	7/31/2018	Vendor #	5743	Vendor Name	MAGLIONE CONSULTING, LLC.				
	PO #	PO Date		Check #	60589	Check Date	8/10/2018				
	MARTIN SWEEP, LLC. 1255 AUGUST SERVICE	2	8/9/2018	AP1811	Vendor#: 5114		\$0.00	\$1,100.00	\$0.00	\$0.00	
	Invoice # 1255	Invoice Date	8/1/2018	Vendor #	5114	Vendor Name	MARTIN SWEEP, LLC.				

Town Of Port Royal
General Ledger Detail Transaction Report
Fiscal Year 2018 - 2019

Account Number	Account Description		AM	Journal Date	Type/Num	Reference	Budget Amount	Debit	Credit	Enc/Liq	Act Exp
PO #	PO Date			Check #	60590	Check Date	8/10/2018				
ATLAS SURVEYING, INC. 12633	BFT-17205	3	9/11/2018	AP1864	Vendor#: 5962		\$0.00	\$1,500.00	\$0.00	\$0.00	
Invoice # 12633	Invoice Date 5/31/2018			Vendor # 5962	Vendor Name ATLAS SURVEYING, INC.						
PO #	PO Date			Check #	60685	Check Date	9/17/2018				
FOUR WATERS ENGINEERING, INC. 4W1461	15-5008	3	9/26/2018	AP1882	Vendor#: 5816		\$0.00	\$637.70	\$0.00	\$0.00	
Invoice # 4W1461	Invoice Date 9/14/2018			Vendor # 5816	Vendor Name FOUR WATERS ENGINEERING, INC.						
PO #	PO Date			Check #	60745	Check Date	9/28/2018				
FOLK LAND MANAGEMENT INC 4043		4	10/11/2018	AP1908	Vendor#: 2559		\$0.00	\$657.40	\$0.00	\$0.00	
Invoice # 4043	Invoice Date 10/5/2018			Vendor # 2559	Vendor Name FOLK LAND MANAGEMENT INC						
PO #	PO Date			Check #	60806	Check Date	10/12/2018				
MAGLIONE CONSULTING, LLC. 18-009		4	10/11/2018	AP1908	Vendor#: 5743		\$0.00	\$1,445.00	\$0.00	\$0.00	
Invoice # 18-009	Invoice Date 9/28/2018			Vendor # 5743	Vendor Name MAGLIONE CONSULTING, LLC.						
PO #	PO Date			Check #	60816	Check Date	10/12/2018				
MARTIN SWEEP, LLC. 1278	SEPTEMBER SERVICE	4	10/11/2018	AP1908	Vendor#: 5114		\$0.00	\$1,100.00	\$0.00	\$0.00	
Invoice # 1278	Invoice Date 9/1/2018			Vendor # 5114	Vendor Name MARTIN SWEEP, LLC.						
PO #	PO Date			Check #	60817	Check Date	10/12/2018				
MARTIN SWEEP, LLC. 1300	OCTOBER SERVICE	4	10/11/2018	AP1908	Vendor#: 5114		\$0.00	\$1,100.00	\$0.00	\$0.00	
Invoice # 1300	Invoice Date 10/1/2018			Vendor # 5114	Vendor Name MARTIN SWEEP, LLC.						
PO #	PO Date			Check #	60817	Check Date	10/12/2018				
DEGLER WASTE SERVICES, INC. 61452		4	10/23/2018	AP1929	Vendor#: 5216		\$0.00	\$800.00	\$0.00	\$0.00	
Invoice # 61452	Invoice Date 10/10/2018			Vendor # 5216	Vendor Name DEGLER WASTE SERVICES, INC.						
PO #	PO Date			Check #	60848	Check Date	10/26/2018				
FOUR WATERS ENGINEERING, INC. 4W1482	15-5008	4	10/23/2018	AP1929	Vendor#: 5816		\$0.00	\$165.00	\$0.00	\$0.00	
Invoice # 4W1482	Invoice Date 10/18/2018			Vendor # 5816	Vendor Name FOUR WATERS ENGINEERING, INC.						
PO #	PO Date			Check #	60850	Check Date	10/26/2018				
MAGLIONE CONSULTING, LLC. 18-010		5	11/7/2018	AP1956	Vendor#: 5743		\$0.00	\$1,785.00	\$0.00	\$0.00	
Invoice # 18-010	Invoice Date 11/2/2018			Vendor # 5743	Vendor Name MAGLIONE CONSULTING, LLC.						
PO #	PO Date			Check #	60920	Check Date	11/9/2018				

Town Of Port Royal
General Ledger Detail Transaction Report
Fiscal Year 2018 - 2019

Account Number	Account Description		AM	Journal Date	Type/Num	Reference	Budget Amount	Debit	Credit	Enc/Liq	Act Exp
MARTIN SWEEP, LLC. 1328	NOVEMBER SERVICE	5	11/7/2018	AP1956	Vendor#: 5114		\$0.00	\$1,100.00	\$0.00	\$0.00	
Invoice # 1328	Invoice Date	11/1/2018	Vendor #	5114	Vendor Name	MARTIN SWEEP, LLC.					
PO #	PO Date		Check #	60923	Check Date	11/9/2018					
FOLK LAND MANAGEMENT INC 4073		5	11/20/2018	AP1970	Vendor#: 2559		\$0.00	\$4,344.67	\$0.00	\$0.00	
Invoice # 4073	Invoice Date	11/5/2018	Vendor #	2559	Vendor Name	FOLK LAND MANAGEMENT INC					
PO #	PO Date		Check #	60951	Check Date	11/21/2018					
FOUR WATERS ENGINEERING, INC. 4W1492 15-5008		5	11/27/2018	AP1989	Vendor#: 5816		\$0.00	\$835.00	\$0.00	\$0.00	
Invoice # 4W1492	Invoice Date	11/17/2018	Vendor #	5816	Vendor Name	FOUR WATERS ENGINEERING, INC.					
PO #	PO Date		Check #	60990	Check Date	12/7/2018					
MAGLIONE CONSULTING, LLC. 18-011		5	11/27/2018	AP1989	Vendor#: 5743		\$0.00	\$1,964.04	\$0.00	\$0.00	
Invoice # 18-011	Invoice Date	12/1/2018	Vendor #	5743	Vendor Name	MAGLIONE CONSULTING, LLC.					
PO #	PO Date		Check #	61006	Check Date	12/7/2018					
MARTIN SWEEP, LLC. 1355	DECEMBER SERVICE	5	11/27/2018	AP1989	Vendor#: 5114		\$0.00	\$1,100.00	\$0.00	\$0.00	
Invoice # 1355	Invoice Date	12/1/2018	Vendor #	5114	Vendor Name	MARTIN SWEEP, LLC.					
PO #	PO Date		Check #	61007	Check Date	12/7/2018					
BEAUFORT COUNTY TREASURER 2018 2018	PROPERTY TAX BILLS	6	12/13/2018	AP2001	Vendor#: 18		\$0.00	\$3,211.05	\$0.00	\$0.00	
Invoice # 2018	Invoice Date	12/13/2018	Vendor #	18	Vendor Name	BEAUFORT COUNTY TREASURER					
PO #	PO Date		Check #	61046	Check Date	12/21/2018					
CITY OF BEAUFORT 2527 7576/MOSSY OAKS	DRAINAGE STUDY	6	12/13/2018	AP2001	Vendor#: 24		\$0.00	\$15,000.00	\$0.00	\$0.00	
Invoice # 2527	Invoice Date	12/13/2018	Vendor #	24	Vendor Name	CITY OF BEAUFORT					
PO #	PO Date		Check #	61084	Check Date	1/4/2019					
MAGLIONE CONSULTING, LLC. 18-012	DECEMBER SERVICE	7	1/4/2019	AP2022	Vendor#: 5743		\$0.00	\$2,091.33	\$0.00	\$0.00	
Invoice # 18-012	Invoice Date	12/31/2018	Vendor #	5743	Vendor Name	MAGLIONE CONSULTING, LLC.					
PO #	PO Date		Check #	61092	Check Date	1/4/2019					
MARTIN SWEEP, LLC. 1385	JANUARY SERVICE	7	1/4/2019	AP2022	Vendor#: 5114		\$0.00	\$1,100.00	\$0.00	\$0.00	
Invoice # 1385	Invoice Date	1/1/2019	Vendor #	5114	Vendor Name	MARTIN SWEEP, LLC.					
PO #	PO Date		Check #	61093	Check Date	1/4/2019					
FOLK LAND MANAGEMENT INC 4118		7	1/4/2019	AP2022	Vendor#: 2559		\$0.00	\$1,870.00	\$0.00	\$0.00	

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Invoice # 4118	Invoice Date	12/20/2018		Vendor #	2559	Vendor Name	FOLK LAND MANAGEMENT INC				
PO #	PO Date			Check #	61148	Check Date	1/18/2019				
FOUR WATERS ENGINEERING, INC. 4W1528 15-5008		8		2/12/2019	AP2084	Vendor#: 5816	\$0.00	\$880.00	\$0.00	\$0.00	
Invoice # 4W1528	Invoice Date	2/5/2019		Vendor #	5816	Vendor Name	FOUR WATERS ENGINEERING, INC.				
PO #	PO Date			Check #	61233	Check Date	2/15/2019				
LCR CONSTRUCTION INC TOWPR020119		8		2/12/2019	AP2084	Vendor#: 2139	\$0.00	\$1,131.30	\$0.00	\$0.00	
Invoice # TOWPR020119	Invoice Date	2/1/2019		Vendor #	2139	Vendor Name	LCR CONSTRUCTION INC				
PO #	PO Date			Check #	61243	Check Date	2/15/2019				
MARTIN SWEEP, LLC. 1415 FEBRUARY SERVICE		8		2/12/2019	AP2084	Vendor#: 5114	\$0.00	\$1,100.00	\$0.00	\$0.00	
Invoice # 1415	Invoice Date	2/1/2019		Vendor #	5114	Vendor Name	MARTIN SWEEP, LLC.				
PO #	PO Date			Check #	61248	Check Date	2/15/2019				
MAGLIONE CONSULTING, LLC. 19-002 FEBRUARY SERVICE		9		3/8/2019	AP2135	Vendor#: 5743	\$0.00	\$1,267.94	\$0.00	\$0.00	
Invoice # 19-002	Invoice Date	3/1/2019		Vendor #	5743	Vendor Name	MAGLIONE CONSULTING, LLC.				
PO #	PO Date			Check #	61342	Check Date	3/15/2019				
MARTIN SWEEP, LLC. 1435 MARCH SERVICE		9		3/8/2019	AP2135	Vendor#: 5114	\$0.00	\$1,100.00	\$0.00	\$0.00	
Invoice # 1435	Invoice Date	3/1/2019		Vendor #	5114	Vendor Name	MARTIN SWEEP, LLC.				
PO #	PO Date			Check #	61343	Check Date	3/15/2019				
DEGLER WASTE SERVICES, INC. 63086 601 FORT FREDERICK CIRCLE		9		3/25/2019	AP2173	Vendor#: 5216	\$0.00	\$760.00	\$0.00	\$0.00	
Invoice # 63086	Invoice Date	3/11/2019		Vendor #	5216	Vendor Name	DEGLER WASTE SERVICES, INC.				
PO #	PO Date			Check #	61373	Check Date	3/29/2019				
FOLK LAND MANAGEMENT INC 4207		9		3/25/2019	AP2173	Vendor#: 2559	\$0.00	\$380.00	\$0.00	\$0.00	
Invoice # 4207	Invoice Date	3/18/2019		Vendor #	2559	Vendor Name	FOLK LAND MANAGEMENT INC				
PO #	PO Date			Check #	61422	Check Date	4/12/2019				
FOUR WATERS ENGINEERING, INC. 4W1553 15-5008		10		4/10/2019	AP2201	Vendor#: 5816	\$0.00	\$1,436.00	\$0.00	\$0.00	
Invoice # 4W1553	Invoice Date	3/28/2019		Vendor #	5816	Vendor Name	FOUR WATERS ENGINEERING, INC.				
PO #	PO Date			Check #	61423	Check Date	4/12/2019				
LOW COAST, LLC. 13423 STORM DRAINAGE BOX REPAIR		10		4/10/2019	AP2201	Vendor#: 5895	\$0.00	\$2,200.00	\$0.00	\$0.00	

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Invoice # 13423	Invoice Date	4/2/2019		Vendor #	5895	Vendor Name	LOW COAST, LLC.				
PO #	PO Date			Check #	61431	Check Date	4/12/2019				
MAGLIONE CONSULTING, LLC. 19-003	MARCH	10	4/10/2019	AP2201	Vendor#: 5743		\$0.00	\$2,034.86	\$0.00	\$0.00	
Invoice # 19-003	Invoice Date	4/1/2019		Vendor #	5743	Vendor Name	MAGLIONE CONSULTING, LLC.				
PO #	PO Date			Check #	61434	Check Date	4/12/2019				
MARTIN SWEEP, LLC. 1468	APRIL SERVICE	10	4/10/2019	AP2201	Vendor#: 5114		\$0.00	\$1,100.00	\$0.00	\$0.00	
Invoice # 1468	Invoice Date	4/1/2019		Vendor #	5114	Vendor Name	MARTIN SWEEP, LLC.				
PO #	PO Date			Check #	61435	Check Date	4/12/2019				
MAGLIONE CONSULTING, LLC. 19-004	APRIL	11	5/1/2019	AP2263	Vendor#: 5743		\$0.00	\$2,089.82	\$0.00	\$0.00	
Invoice # 19-004	Invoice Date	4/30/2019		Vendor #	5743	Vendor Name	MAGLIONE CONSULTING, LLC.				
PO #	PO Date			Check #	61508	Check Date	5/3/2019				
MARTIN SWEEP, LLC. 1498	MAY SERVICE	11	5/1/2019	AP2263	Vendor#: 5114		\$0.00	\$1,100.00	\$0.00	\$0.00	
Invoice # 1498	Invoice Date	5/1/2019		Vendor #	5114	Vendor Name	MARTIN SWEEP, LLC.				
PO #	PO Date			Check #	61509	Check Date	5/3/2019				
FOUR WATERS ENGINEERING, INC. 4W1570	15-5008	11	5/1/2019	AP2263	Vendor#: 5816		\$0.00	\$1,551.40	\$0.00	\$0.00	
Invoice # 4W1570	Invoice Date	4/29/2019		Vendor #	5816	Vendor Name	FOUR WATERS ENGINEERING, INC.				
PO #	PO Date			Check #	61533	Check Date	5/10/2019				
BRIDGET CALLAHAN LUSSIER 2019-1	CYPRESS WETLANDS	11	5/7/2019	AP2290	Vendor#: 5749		\$0.00	\$481.00	\$0.00	\$0.00	
Invoice # 2019-1	Invoice Date	5/9/2019		Vendor #	5749	Vendor Name	BRIDGET CALLAHAN LUSSIER				
PO #	PO Date			Check #	61522	Check Date	5/10/2019				
BEAUFORT COUNTY TREASURER R110 011 000 0278 0000	06032214-2018	11	5/21/2019	AP2335	Vendor#: 18		\$0.00	\$393.98	\$0.00	\$0.00	
Invoice # 06032214-2018	Invoice Date	5/21/2019		Vendor #	18	Vendor Name	BEAUFORT COUNTY TREASURER				
PO #	PO Date			Check #	61570	Check Date	5/24/2019				
MAGLIONE CONSULTING, LLC. 19-005	MAY	11	5/24/2019	AP2372	Vendor#: 5743		\$0.00	\$2,423.00	\$0.00	\$0.00	
Invoice # 19-005	Invoice Date	5/31/2019		Vendor #	5743	Vendor Name	MAGLIONE CONSULTING, LLC.				
PO #	PO Date			Check #	61639	Check Date	6/7/2019				

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Account Number	Account Description		AM	Journal Date	Type/Num	Reference	Budget Amount	Debit	Credit	Enc/Liq	Act Exp
THE GREENERY, INC. 365832	5053/DUCK BLINDS	11	5/24/2019	AP2372	Vendor#: 4816		\$0.00	\$2,600.00	\$0.00	\$0.00	
Invoice # 365832	Invoice Date 5/23/2019	Vendor # 4816			Vendor Name THE GREENERY, INC.						
PO #	PO Date	Check # 61658			Check Date 6/7/2019						
MARTIN SWEEP, LLC. 1529	JUNE SERVICE	12	6/20/2019	AP2412	Vendor#: 5114		\$0.00	\$1,100.00	\$0.00	\$0.00	
Invoice # 1529	Invoice Date 6/1/2019	Vendor # 5114			Vendor Name MARTIN SWEEP, LLC.						
PO #	PO Date	Check # 61688			Check Date 6/21/2019						
DEGLER WASTE SERVICES, INC. 64978		13	6/30/2019	PA2455	Vendor#: 5216		\$0.00	\$1,498.75	\$0.00	\$0.00	
FOLK LAND MANAGEMENT INC 4288		13	6/30/2019	PA2455	Vendor#: 2559		\$0.00	\$919.82	\$0.00	\$0.00	
MAGLIONE CONSULTING, LLC. 19-006	JUNE SERVICE	13	6/30/2019	PA2455	Vendor#: 5743		\$0.00	\$2,507.09	\$0.00	\$0.00	
YTD Total for 22-4040-191	LEGAL, PROF, ADMIN FEES						\$0.00	\$75,307.84	\$0.00	\$0.00	\$75,307.84
Total for Fund 22							\$0.00	\$78,623.58	\$211,742.15	\$0.00	(\$133,118.57)
Grand Total							\$0.00	\$78,623.58	\$211,742.15	\$0.00	(\$133,118.57)

TOWN COUNCIL

STAFF REPORT

Engineering Department



MEETING DATE:	January 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:

- Neighborhood Revitalization Plan, surveying and preliminary engineering design complete.
- Construction Documents, permitting and easement acquisition are underway.
- Beaufort County Public Facilities Committee recommended approval of approximately \$90,000 funding of sidewalk extension to Bluffton Road.
- **Next Steps:**
 - Complete easement acquisition, permitting and construction documents.
 - Begin Construction in FY 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.
- Phase 5 (Kitty Road to 301 Buck Island Road) engineering plans and permitting are complete. Solicit bids for construction in January 2020.
- Phase 6 (along Simmons ville Road from Grayco northward to the existing New Mustang Road sidewalks) routing options are being reviewed by Staff.
- **Next Steps:**
 - Phase 4 – SCDOT signoff of sidewalk construction.
 - Phase 5 – Construction (from Kitty Road to Lot 310 Buck Island Road) anticipated to begin in winter 2020.
 - Phase 6 - Design and construction of the remaining Simmons ville Road sidewalks, Phase 6 to be completed in FY 2020 – 2021.

3. Bridge Street Streetscape:

- Surveying completed.
- Cranston Engineering has been contracted to provide engineering design.

- **Next Steps:**
 - Staff to evaluate road alternative road sections and parking between Heyward Cove and Calhoun Street.
 - Dominion Energy to prepare photometric plans.
 - Complete preliminary engineering design 12/20/19.
 - Present proposed plans and cost estimates to Town Council at the April TC Workshop

4. New Riverside Linear Trail:

- Parking, trail and signage improvements underway.

SEWER & WATER

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

- Received notification from the Department of Commerce that the Town will be awarded \$320,000 in CDBG funding for Phase 5 A – 5D. Met with LOCOG and SC Department of Commerce prior to release for bidding. Awaiting Commerce approval of bid documents.
- Construction bids for Phase 5E (Posey's Court) received on November 22, 2019 and contract is to be reviewed for approval at the December 2019 Town Council Meeting. Construction to begin January 2020.
- **Next Steps:**
 - Receive the Grant Agreement.
 - Hold a public hearing for the grant award.
 - Advertise bid package after recording required easements and within 60 days of receiving the grant award.
 - Final approval of bid at Town Council meeting.
 - Stakeholder, property owner meeting to be scheduled. Date to be determined.

2. Historic District Sewer Extension Phase 1 – Pritchard Street

- Submitted to DHEC for permit to construct.
- Engineering Department has submitted Pritchard Street ownership request to SCDOT
- **Next Steps:**
 - Receive permit to construct.

HISTORIC DISTRICT IMPROVEMENTS

1. Boundary Street Lighting:

- Surveying work complete.
- Phase 1 Street lighting (4-way stop to Maiden Lane and Martin Family Park) has been installed and operational.
- Submitted Phase 2 street lighting for SCDOT encroachment permit.
- **Next Steps:**
 - Obtain permits and agreements for the remainder of Boundary Street lighting in December 2019.

- Obtain easements as needed for Phase 2 Street Lighting.
- 2. 184 Bluffton Road Renovations:**
- Site work and landscaping complete.
 - Dominion Energy installed parking lot lighting.
 - Sign D'sign installed signage
- 3. Calhoun Street Streetscape:**
- Urban Planners (MKSK) completed updates to the Streetscape Master Plan for Staff review.
 - Dominion Energy is finalizing underground power plans for Calhoun and adjacent streets.
 - **Next Steps:**
 - Complete Streetscape Master Plans and illustrations and submit to Town Council review at the January Workshop.

PARK DEVELOPMENT

- 1. Oyster Factory Park:**
- **Next Steps:**
 - Update Master Plan and Cost Estimates
 - Coordinate the relocation of salvaged Calhoun Street Dock components to Oyster Factory Park.
 - Present Progress Plans to Town Council at the January TC Workshop for review and comment.
 - Begin final design of next phase of improvements per Town Council direction provided at the Workshop.
- 2. 68 Boundary Street Park Renovations:**
- Site work and landscape are complete with the exception of additional work requested for gates and fencing along Boundary Street and the western boundary.
 - Restroom Facility is complete.
- 3. Calhoun Street Dock and Public Riverfront Access Improvements:**
- Council approved the design/build contract with Nix Construction in December 2017.
 - Town Council approved construction amendment on 7/9/18.
 - Amended existing permit for public dock and submitted to SCDHEC and USACOE on August 14, 2019 to allow for commercial uses. Public Notice period ended on October 11, 2019. Awaiting response to dock amendment application from agencies.
 - Town Council approved an ordinance to adopt dock rules and regulations at the August meeting.
 - Staff received agency comments on December 10, 2019 and December 20, 2019 and has provided comment response letters.

- **Next Steps:**
 - Construction start to be determined based on approval date of new permit application and contract negotiations (anticipated-December-March construction period).
- 4. Wright Family Park:**
- Bulkhead & Boardwalk are complete.
 - Preferred Materials was awarded the site work contract in November. Utility Construction to begin in December.
 - Hilton Head Landscape is underway with landscape construction for the interior of the park. The river bluff has been planted and sidewalks are staked out.
 - Garage renovation into restroom & kitchenette facility began late September, with anticipated completion mid-January 2020.
 - **Next Steps:**
 - Begin hardscape and utility work in December.
 - Continue with garage renovation
 - Site work in the Calhoun Street ROW is contingent on the status of the dock permit approval. It would be desirable to wait on site work until the upland portions of the dock were substantially complete.
- 5. Oscar Frazier Park:**
- Survey and design of perimeter sidewalks are complete.
 - Bids received December 5, 2019 exceeded budget. Project will be value engineered and re-bid in January, 2020.
 - **Next Steps:**
 - Obtain revised bids, execute contract and install perimeter sidewalks.
- 6. Veterans Memorial:**
- Project is substantially complete.
 - Minor hardscape construction is underway with Southern Palmetto Landscape and Grand Oaks Construction.
- 7. New Riverside Barn/Park:**
- Surveying is complete.
 - Public input was obtained at the Arts and Seafood Festival and 11/2/19 Open House.
 - Wood and Partners has started Pre-planning services.
 - Public input was obtained during two events including;
 - October 20, 2019, Bluffton Arts and Seafood Festival - 85 surveys were obtained
 - November 2, 2019, Public Stakeholder Meeting at the Barn Site – 270 surveys obtained (over 300 attended). In addition, respondents were requested to vote on their favorite park features through a dot matrix exercise
 - **Next Steps:**

- Present Public Input results to Town Council at the January Town Council quarterly CIP workshop.
- Present Masterplan at the April Town Council quarterly CIP workshop.

TOWN FACILITIES AND MISCELLANEOUS PLANNING

1. Buckwalter Place Multi-County Commerce Park:

- Park construction is substantially complete.
- Wayfinding Signage plans are in fabrication and installation is anticipated in January, 2020.
- Site Development Plans for the LEC expansion is 60% complete.
- Don Ryan building shell under construction.
- **Next Steps:**
 - Continue construction of the Don Ryan Center for Innovation. Projected completion date for the exterior portion of the building is January 2020. Interior buildout completion is estimated to be March 2020.
 - Continue construction documents and permitting for the LEC service yard expansion. Bidding is planned for late January.
 - Continue infrastructure planning for the Town's future development parcel. Final design and construction pending FY 2021 budget approval.

2. Town of Bluffton Housing Project:

- Surveying and Geotechnical Services complete for 1095 May River Road site.
- Environmental Assessment completed for 115 Bluffton Road.
- Received nine responses to Statement of Interest request for Joint Venture Housing Developers. Evaluation and interviews of proposed JV partners are underway.

3. Law Enforcement Center Facility Improvements

- All FY20 work is complete.

4. Public Works Facility Improvements

- All FY20 work is complete

5. Rotary Community Center Facility Improvements

- All FY20 work is complete.

6. Town Hall Improvements

- All FY20 work is complete

7. Ulmer Theater Improvements

- Renovation started on 8/5/2019 and scheduled for completion in January 2020.

8. Ghost Roads

- Surveying is underway for easement exhibits.

- Pritchard Street Quit Claim Deed exhibit is 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.

MAY RIVER WATERSHED ACTION PLAN IMPLEMENTATION

- 1.** 319 Grant Phase 3 (Town Hall Project)
 - Project completed with post-construction water quality monitoring continuing until mid-October.
 - **Next Steps:**
 - Finalize all Grant documentation and submit within 45 days of grant closure on 11/8/19.

DIVISION/STAFF UPDATES

Project Management

Thirty (35) CIP projects are currently in progress. Two new parks, one parking area, one sidewalk project, one street lighting project and several improvements to existing public facilities will be completed prior to the end of 2019. Several new CIP projects are set to start construction in the first quarter of 2020.

Watershed Management

Southern Lowcountry Regional Board (SoLoCo) 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.
- Timeframe to deliver a model ordinance and design manual has been extended to 3/31/20 to allow for sufficient staff and stakeholder review. Each jurisdiction will then follow its own adoption procedures.
- Staff provided project update to SoLoCo on 10/22/19.
- **Next Steps:**
 - Updated project timeline is as follows:
 - 11/18 /19 Staff review and finalize comments to consultant team
 - 11/20/19 Staff comments sent to consultant team
 - 12/4/19 Project Team - staff and consultants - final comment review meeting
 - 12/4 - 31/19 Consultant team finalizes products
 - 1/2/20 Beaufort County to host final products for public access/review
 - 1/2/20 Public comment period starts
 - 1/21/20 Beaufort County, Town of Port Royal and City of Beaufort Public Meeting - Time & Location TBD
 - 1/22/20 Town of Bluffton Public Meeting – 2:00 – 4:00 PM @ Town Hall
 - 1/23/19 Jasper County/Town of Hardeeville Public Meeting - Time & Location TBD
 - 2/13/20 Public comment period ends
 - 3/11/20 Stormwater Utility Board Meeting presentation
 - 3/24/20 SoLoCo Meeting presentation
 - 3/26/20 WAPAC Meeting presentation
 - Municipal adoption by each jurisdiction will follow.

Sea Level Rise Task Force

- Following Beaufort County's presentation and request for regional participation at the 10/22/19 SoLoCo meeting, staff is invited to attend the Sea Level Rise Task Force meeting on 11/21/19.

2. Joint Councils Meeting for Watershed Management Initiatives

- BJWSA developed their CIP list for FY2020 sewer projects which does not include any projects in the County's jurisdiction in the May River Headwaters without cost-sharing.
- BJWSA met with Beaufort County and Town staff to discuss sewer projects in this area on 7/18/19. An update was provided to WAPAC on 8/29/19.
 - WAPAC unanimously recommended that Town Council reconvene the Joint Councils meeting with the County to discuss long-term funding strategy to extend sewer to unserved portions of the County in the May River watershed.
- Next Steps:
 - Next Joint Councils Meeting scheduled for 2/25/20 to discuss long-term sewer extension strategy and water quality improvements.

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 & 1a**4. May River Watershed Action Plan Implementation Summary – Attachment 2**

- SCDHEC announced on 6/21/19 a notice to award a 319 grant Phase IV in the amount of \$365,558.36 to expedite sewer connections in priority areas of the Historic District. The scope includes 49 connections at a total project cost of \$609,388.36. The contract was signed 9/25/19.
- McCormick Taylor has commenced the May River Watershed Action Plan Update – Water Quality Model.

5. MS4 Minimum Control Measure (MCM) – 1 Public Education and Outreach and MS4 MCM – 2 Public Participation and Involvement

- Staff met to discuss the development of a Water Quality Story Map on 11/21/19.
- Staff attended USCB's Friday Biology Seminar on Dr. Montie's bottlenose dolphin research in the May River estuary on 12/06/19.
- Staff attended a Post-Construction BMP Inspector Recertification class on 12/09/19.
- Staff attended a Lowcountry Stormwater Partners' Permeable Paver Workshop brainstorming meeting on 12/16/19.
- Staff attended the Beaufort County Stormwater Utility Board meeting on 11/13/19.
- May River Watershed Action Plan Advisory Committee meeting will take place 01/23/20.– **Attachment 3**
-

6. MS4 MCM – 3 Illicit Discharge Detection and Elimination

- Stormwater Infrastructure Inventory Map – **Attachment 4a**
- Fecal Coliform Concentrations Trend Map – **Attachment 4b**
- MS4-required Quarterly Water Quality Sampling was conducted on 11/12/19 for the fall quarter.
- Monthly, Microbial Source Tracking Trend (MST) Map – **Attachments 4c & 4d**

- Town staff coordinates with the SC Department of Health and Environmental Control (SC DHEC) 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. SC DHEC conducted sampling on 12/18/19.
 - Town staff conducted MST sampling on the same date, 12/18/19, as SC DHEC sampling following ~0.48 inches of rainfall. Thirteen (13) samples were collected from upstream and outfall sites. MST results from samples collected by Town and SC DHEC staff on 12/18/19 are pending and any pertinent results will be shared with Town Council and Senior Staff.
 - Town staff received a progress report from Dr. Kim Ritchie's USCB Laboratory on 12/15/19. Samples have been processed and are awaiting processing. Staff has requested quotes for Biomeme and filtering equipment and is moving forward with the Town's financial process for purchasing. Dr. Ritchie's laboratory will provide an update for comparison to Source Molecular results and will continue to work with Biomeme to address software issues.
 - Illicit Discharge Investigations – **Attachment 4e**
7. **MS4 MCM – 4 Construction Site Stormwater Runoff Control – Attachment 5**
 8. **MS4 MCM – 5 Stormwater Plan Review & Related Activity – Attachment 6**
 9. **Citizen Drainage Concern Heat Map – Attachment 7**
 10. **Citizen Requests for Watershed Management Services & Activities – Attachment 8**
 11. **Septic System Maintenance Assistance – Attachment 9**
 12. **MS4 MCM – 6 Good Housekeeping (Staff Training/Education)**
 - Staff attended the webinar "Protecting the Urban Environment from Fecal Contamination" by the Water Institute at the University of North Carolina on 11/18/19.
 - Staff presented at the SC Stormwater Managers Association quarterly meeting 11/7/19.
 - Staff hosted the Coastal MS4 Quarterly meeting on 11/8/2019.
 - Staff attended the lecture, "Mitigating Harmful Cyanobacterial Blooms in a Hotter, Hydrologically More-Extreme World" by Dr. Hans Paerl, UNC-Wilmington on 11/13/19.
 - Staff attended the Healthy Ponds Workshop on 12/5/19.

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 inspection on the following ditches:
 - 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.

- 2. Beautification Program – Attachment 10**
 - Landscape Maintenance - Ongoing routine

- 3. Facilities**
 - Facilities and Parks Maintenance – Ongoing routine
 - Prepared Dubois Park for Christmas tree lighting ceremony
 - Coordinated Christmas Parade
 - Installed Christmas lights
 - Decorated and prepared Martin Family Park for movie night
 - Decorated and Prepared Dubois Park for Christmas tree lighting ceremony
 - Installed Christmas wreaths along Town roads
 - Removed Cultural District banners
 - Installed wooden bollards along Lawrence Street
 - Assisted with Christmas Tree lighting ceremony
 - Refurbished 10 old Christmas pole decorations
 - Repaired and raked driveway at LEC
 - Helped set up tables and chairs for Thanksgiving Feast
 - Painted over the graffiti under the overpass at the MRT
 - Painted over the graffiti at RCC
 - Repaired split rail fence in front of Garvin House
 - Installed and decorated Christmas Tree
 - Assisted with decoration of DP pavilion for “Pictures with Santa”
 - Installed Christmas wreath at Town Hall
 - Install Pet Waste stations at Martin Family Park
 - Assisted with delivery of “Port-a-Jons”
 - Assisted with purchased of Parade candy
 - Assisted with Christmas cookies bagging (450)

- Re-stained trash receptacles frames along May River Road and around Oscar Frazer Park
- Re-stained trash receptacles frames and benches along Calhoun St.
- Parade clean-up
- Set-up shop for department luncheon
- Secure Adirondack chairs at Martin Family Park
- Inspected all oyster tables for safety at OFP and performed any necessary repairs
- Trimmed back branches from light poles/bases along May River Road
- Trimmed back overhanging tree branches along Calhoun and Lawrence
- Replaced HVAC filters in the Police Substation and Watershed Management buildings
- Replaced HVAC Filters on roof top units at the LEC
- Replaced water filters in all drinking fountains at TH
- Freshened up Watershed Management and Police Sub Station landscaping
- Cut back vines growing over handrail at Huge Cove
- Picked up roadside trash along Goethe Rd.
- Cleaned wayfinding signs and re-stained benches at Herbkersman Plaza

4. Public Works Activities – See Attached Cartegraph Report (Attachment 10)

Attachments:

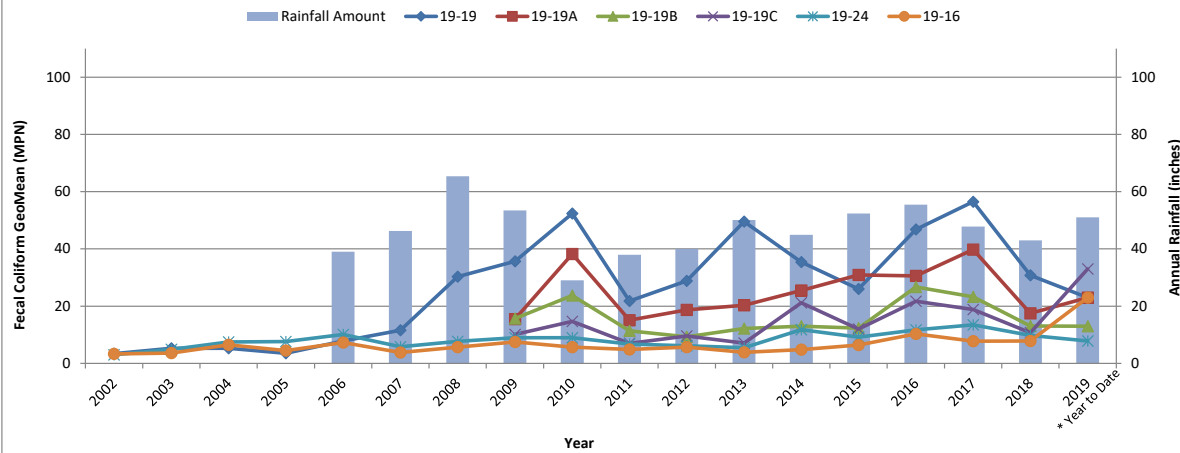
1. SCDHEC Shellfish Harvesting Monitoring Data Year-to-Date
 - a. SCDHEC May River Shellfish Harvesting Status Exhibit
2. May River Watershed Action Plan Implementation Summary*
3. May River Watershed Action Plan Advisory Committee Agenda
4. MS4 Minimum Control Measure #3 - Illicit Discharge Detection and Elimination
 - a. Stormwater Infrastructure Inventory Map
 - b. Fecal Coliform Concentrations Trend Map
 - c. Microbial Source Tracking Human Source Trend Map
 - d. Microbial Source Tracking All Sources Trend Map
 - 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 Concern Heat Map
8. Citizen Request for Watershed Mgmt. Services & Activities Map
9. Septic System Maintenance Assistance

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

	19-19				19-19A				19-19B				19-19C				19-24				19-16							
	2016	2017	2018	2019	2016	2017	2018	2019	2016	2017	2018	2019	2016	2017	2018	2019	2016	2017	2018	2019	2016	2017	2018	2019	2016	2017	2018	2019
	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)
December	79.0	1600.0	79.0	170.0	23.0	920.0	49.0	33.0	49.0	540.0	33.0	140.0	33.0	240.0	46.0	33.0	7.8	220.0	23.0	13.0	23.0	49.0	21.0	110.0	23.0	49.0	21.0	110.0
November	33.0	49.0	49.0	17.0	13.0	33.0	13.0	6.8	7.8	7.8	23.0	7.8	14.0	31.0	17.0	11.0	13.0	2.0	17.0	4.5	33.0	2.0	7.8	2.0	33.0	2.0	7.8	2.0
October	NS	22.0	79.0	7.8	NS	49.0	23.0	4.5	NS	33.0	7.8	2.0	NS	23.0	7.8	4.5	NS	6.8	7.8	1.8	NS	2.0	2.0	2.0	NS	2.0	2.0	2.0
September	23.0	17.0	49.0	79.0	110.0	7.8	23.0	33.0	23.0	11.0	13.0	6.8	13.0	4.5	17.0	17.0	4.5	2.0	17.0	4.5	7.8	1.8	17.0	1.8	7.8	1.8	17.0	1.8
August	NS	79.0	70.0	70.0	NS	70.0	23.0	49.0	NS	21.0	13.0	33.0	NS	33.0	4.5	22.0	NS	33.0	7.8	7.8	NS	33.0	17.0	17.0	NS	33.0	17.0	17.0
July	79.0	350.0	23.0	4.5	17.0	110.0	33.0	13.0	22.0	130.0	11.0	7.8	17.0	49.0	7.8	17.0	49.0	49.0	13.0	22.0	13.0	22.0	4.5	13.0	13.0	22.0	4.5	13.0
June	79.0	23.0	11.0	33.0	130.0	49.0	23.0	49.0	70.0	13.0	23.0	49.0	110.0	17.0	7.8	46.0	33.0	7.8	4.5	13.0	23.0	4.5	1.8	4.5	23.0	4.5	1.8	4.5
May	70.0	17.0	17.0	7.8	23.0	23.0	33.0	9.2	49.0	7.8	17.0	7.8	49.0	2.0	13.0	2.0	14.0	23.0	23.0	6.8	17.0	4.5	13.0	4.5	17.0	4.5	13.0	4.5
April	23.0	7.8	33.0	23.0	23.0	23.0	13.0	13.0	13.0	4.5	17.0	7.8	13.0	7.8	17.0	6.8	7.8	13.0	49.0	23.0	1.8	4.5	17.0	6.8	1.8	4.5	17.0	6.8
March	33.0	350.0	22.0	23.0	33.0	11.0	21.0	23.0	33.0	33.0	4.5	6.8	17.0	13.0	11.0	13.0	11.0	13.0	7.8	7.8	7.8	33.0	9.3	4.5	7.8	33.0	9.3	4.5
February	23.0	13.0	17.0	64.0	17.0	7.8	7.8	33.0	13.0	13.0	17.0	23.0	11.0	9.3	17.0	31.0	6.8	4.5	2.0	6.8	1.8	1.8	7.8	13.0	1.8	1.8	7.8	13.0
January	110.0	95.0	13.0	23.0	33.0	79.0	2.0	23.0	49.0	31.0	4.5	13.0	17.0	49.0	2.0	33.0	7.8	27.0	1.8	7.8	17.0	33.0	4.5	23.0	17.0	33.0	4.5	23.0
Additional Samples																												
Average Annual GeoMean	46.8	56.5	30.8	26.4	30.6	39.8	17.5	19.0	26.7	23.3	13.1	13.0	21.7	18.8	10.7	14.5	11.7	13.5	9.8	8.0	10.3	7.7	7.9	7.5	10.3	7.7	7.9	7.5
** Truncated GeoMetric Mean	37.0	44.0	42.0	35.0	30.0	36.0	29.0	23.0	16.0	20.0	20.0	16.0	16.0	16.0	15.0	14.0	9.0	10.0	10.0	10.0	6.0	7.0	8.0	7.0	6.0	7.0	8.0	7.0
** Truncated 90th Percentile	105.0	203.0	176.0	168.0	89.0	133.0	115.0	89.0	69.0	83.0	71.0	63.0	65.0	57.0	56.0	52.0	29.0	37.0	44.0	38.0	21.0	29.0	30.0	32.0	21.0	29.0	30.0	32.0

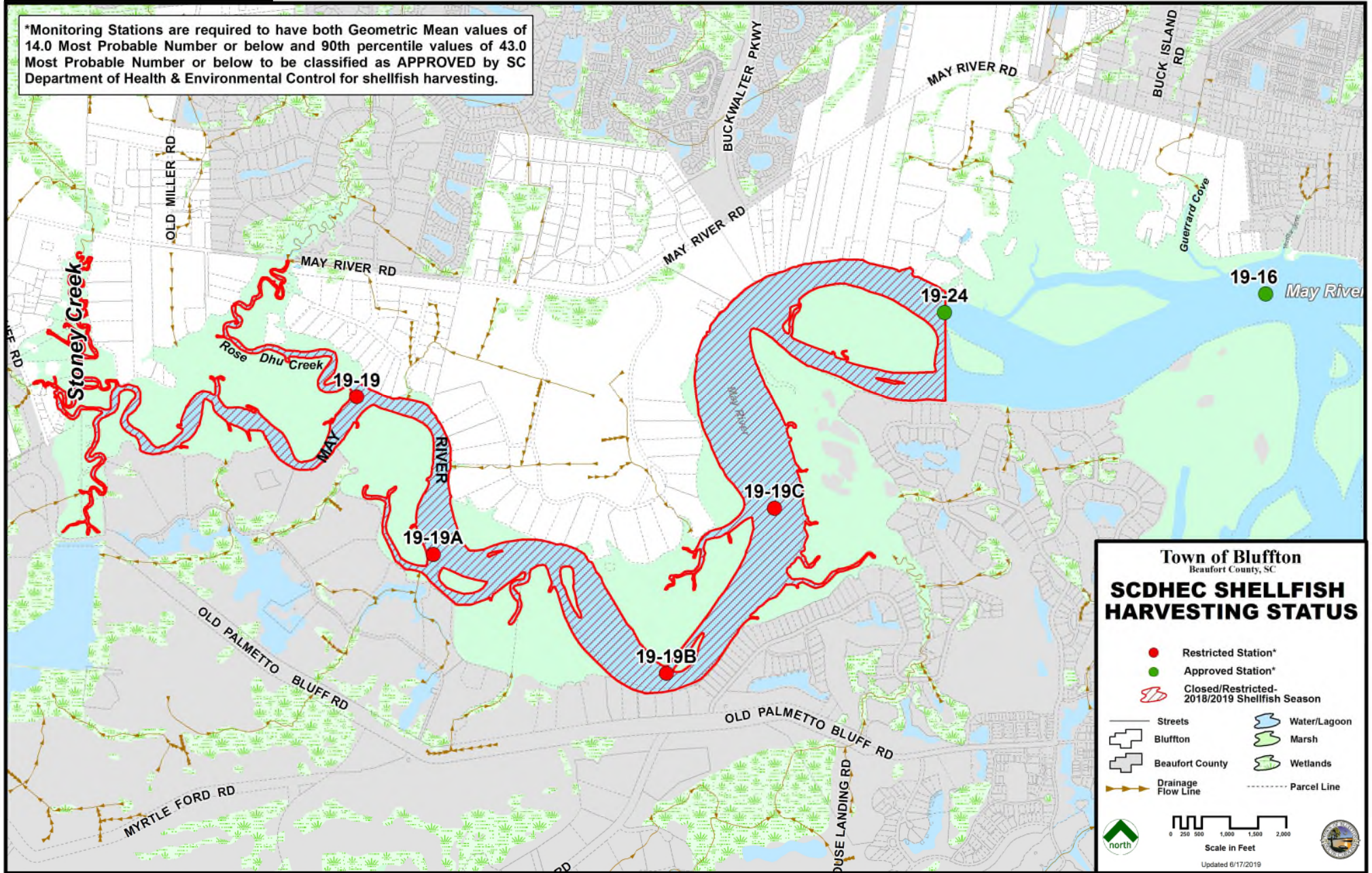
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 ** Town staff calculations utilizing DHEC statistics

SC DHEC May River Headwaters Shellfish Stations Average Annual Fecal Coliform



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 - POLICY	STATUS
May River Watershed Action Plan Update	Contract to McCormick Taylor to complete MRWAP Update - Water Quality Model, current project assessment, and proposed new projects is underway with final deliverables anticipated 3/20.
Sewer Connection & Extension Policy	Completed 2018. Council adopted the Sewer Connection & Extension Policy on 9/26/17. Ordinance amendment and Septic to Sewer Conversion Program adopted on 9/20/18.
ACTIVITY - PROJECTS	STATUS
Sanitary Sewer Extension	Completed Buck Island/Simmons ville Road (BIS) Phases I, II, III, IV; Toy Fields; and Jason/Able. Six phases of sewer extension are proposed in the 5-year Capital Improvement Program. Current project updates are included in Engineering Consent Agenda under "Sewer & Water."
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May River Watershed Water Quality Model	Contract awarded to McCormick Taylor with final deliverables anticipated 3/20.
ACTIVITY - FINANCIAL	STATUS
Additional Funding Opportunities	Staff anticipates applying for a Rural Infrastructure Authority grant in March 2020 in support of drainage improvements and stormwater runoff treatment along Pritchard and Bridge Streets. SCDHEC and EPA contract for 319 Grant Phase IV - sewer connection for \$365,558.36 to construct 49 sewer lateral connections in Poseys Court, Little Aaron and Historic District Phases 1 and 2 was signed on 9/25/19.
ACTIVITY - PROGRAMS	STATUS
Public Outreach/Participation/Involvement (MS4 Minimum Control Measure #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.
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ACTIVITY - PROGRAMS continued	STATUS continued
Water Quality Monitoring Program (MS4 Minimum Control Measure #3)	1. SCDHEC Shellfish monitoring results 2. Fecal coliform bacteria "hot spot" concentrations 3. Microbial Source Tracking of human sources of bacteria 4. Illicit Discharge investigation and monitoring 5. BMP efficacy monitoring 6. MS4 monitoring Current updates are included in Engineering Consent Agenda Attachments 1a, 1b, 4b - 4d.
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Stormwater Plan Review & Related Activity Program (MS4 Minimum Control Measure #5)	SCDHEC delegated plan review-related activities. Current updates are included in Engineering Consent Agenda Attachment 6.
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. Current updates are included in Engineering Consent Agenda Attachment 7 and under "Public Works."
Septic System Maintenance Program	On-going assistance offered to Town residents regardless of financial status through Neighborhood Assistance Program. Current updates, as reported by NAP, are included in Engineering Consent Agenda Attachment 9.
Septic to Sewer Conversion Program	Completed 2018. On-going implementation following sewer extension projects.



TOWN OF BLUFFTON MAY RIVER WATERSHED ACTION PLAN ADVISORY COMMITTEE MEETING AGENDA

Theodore Washington Municipal Building
20 Bridge Street, Bluffton SC 29910
Thursday, January 23, 2020, 9:00 a.m.

- 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 – December 09, 2019
- VI. PUBLIC COMMENTS

Every member of the public who is recognized to speak shall address the Chairman and in speaking, avoid disrespect to the Committee, Town Staff, and other members of the meeting. For the record, state your name and address prior to speaking.

COMMENTS ARE LIMITED TO THREE (3) MINUTES.

- VII. OLD BUSINESS
 1. Water Quality Monitoring Program (standing item)
 - a. Weekly Sampling Update
 - b. Microbial Source Tracking (MST) Update
 - c. SCDHEC Shellfish Data Update
- VIII. NEW BUSINESS
 1. Stormwater Utility Fee (SWU) Fee Rate Discussion
- IX. DISCUSSION
- X. ADJOURNMENT

NEXT MEETING DATE: Thursday, February 27, 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.

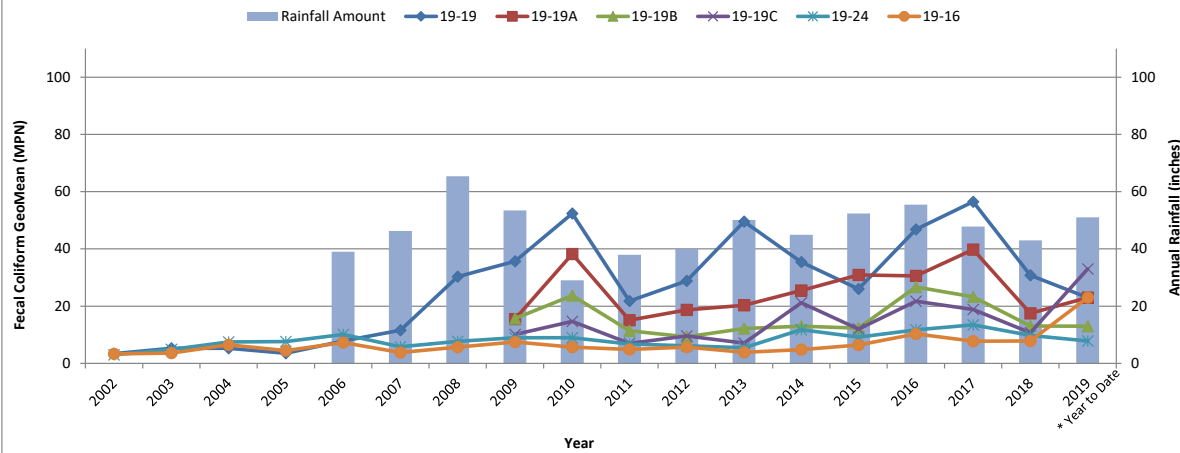
EXECUTIVE SESSION – The public body may vote to go into executive session for any item identified for action on the agenda.

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 as soon as possible but no later than 48 hours before the scheduled event."

	19-19				19-19A				19-19B				19-19C				19-24				19-16							
	2016	2017	2018	2019	2016	2017	2018	2019	2016	2017	2018	2019	2016	2017	2018	2019	2016	2017	2018	2019	2016	2017	2018	2019	2016	2017	2018	2019
	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)
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November	33.0	49.0	49.0	17.0	13.0	33.0	13.0	6.8	7.8	7.8	23.0	7.8	14.0	31.0	17.0	11.0	13.0	2.0	17.0	4.5	33.0	2.0	7.8	2.0	33.0	2.0	7.8	2.0
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August	NS	79.0	70.0	70.0	NS	70.0	23.0	49.0	NS	21.0	13.0	33.0	NS	33.0	4.5	22.0	NS	33.0	7.8	7.8	NS	33.0	17.0	17.0	NS	33.0	17.0	17.0
July	79.0	350.0	23.0	4.5	17.0	110.0	33.0	13.0	22.0	130.0	11.0	7.8	17.0	49.0	7.8	17.0	49.0	49.0	13.0	22.0	13.0	22.0	4.5	13.0	22.0	4.5	13.0	13.0
June	79.0	23.0	11.0	33.0	130.0	49.0	23.0	49.0	70.0	13.0	23.0	49.0	110.0	17.0	7.8	46.0	33.0	7.8	4.5	13.0	23.0	4.5	1.8	4.5	23.0	4.5	1.8	4.5
May	70.0	17.0	17.0	7.8	23.0	23.0	33.0	9.2	49.0	7.8	17.0	7.8	49.0	2.0	13.0	2.0	14.0	23.0	23.0	6.8	17.0	4.5	13.0	4.5	17.0	4.5	13.0	4.5
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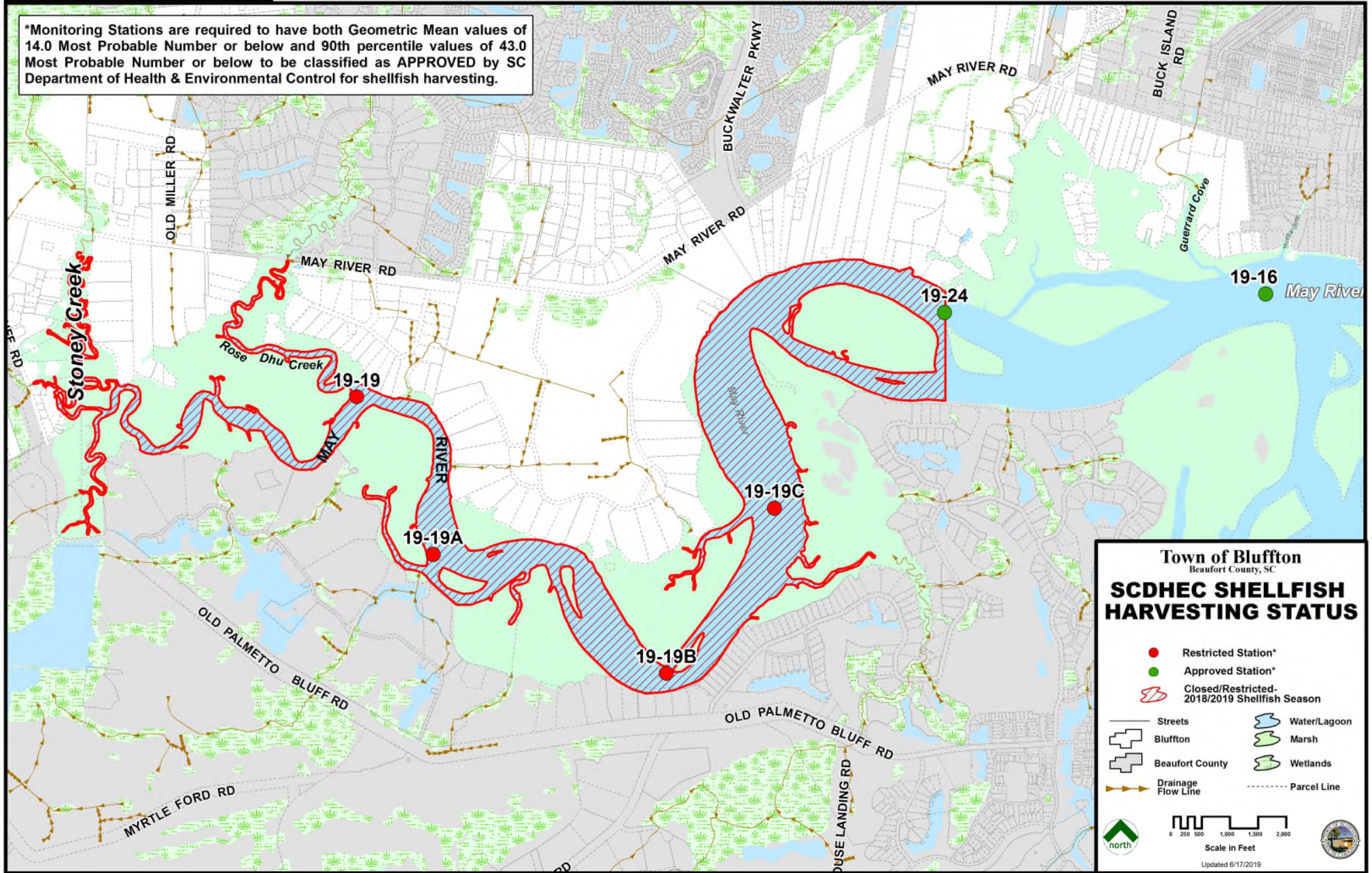
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May River Headwaters

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Town of Bluffton
Beaufort County, SC

SCDHEC SHELLFISH HARVESTING STATUS

- Restricted Station*
- Approved Station*
- ▨ Closed/Restricted-2018/2019 Shellfish Season
- Streets
- ▭ Bluffton
- ▭ Beaufort County
- Drainage Flow Line
- Water/Lagoon
- Marsh
- Wetlands
- Parcel Line

Scale in Feet
0 250 500 1,000 1,500 2,000

Updated 6/17/2019

ACTIVITY - POLICY	STATUS
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**TOWN OF BLUFFTON
MAY RIVER WATERSHED ACTION PLAN ADVISORY COMMITTEE
MEETING AGENDA**

Theodore Washington Municipal Building
20 Bridge Street, Bluffton SC 29910
Monday, December 09, 2019, 9:00 a.m.

- 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 – October 24, 2019
- VI. PUBLIC COMMENTS

Every member of the public who is recognized to speak shall address the Chairman and in speaking, avoid disrespect to the Committee, Town Staff, and other members of the meeting. For the record, state your name and address prior to speaking.

COMMENTS ARE LIMITED TO THREE (3) MINUTES.

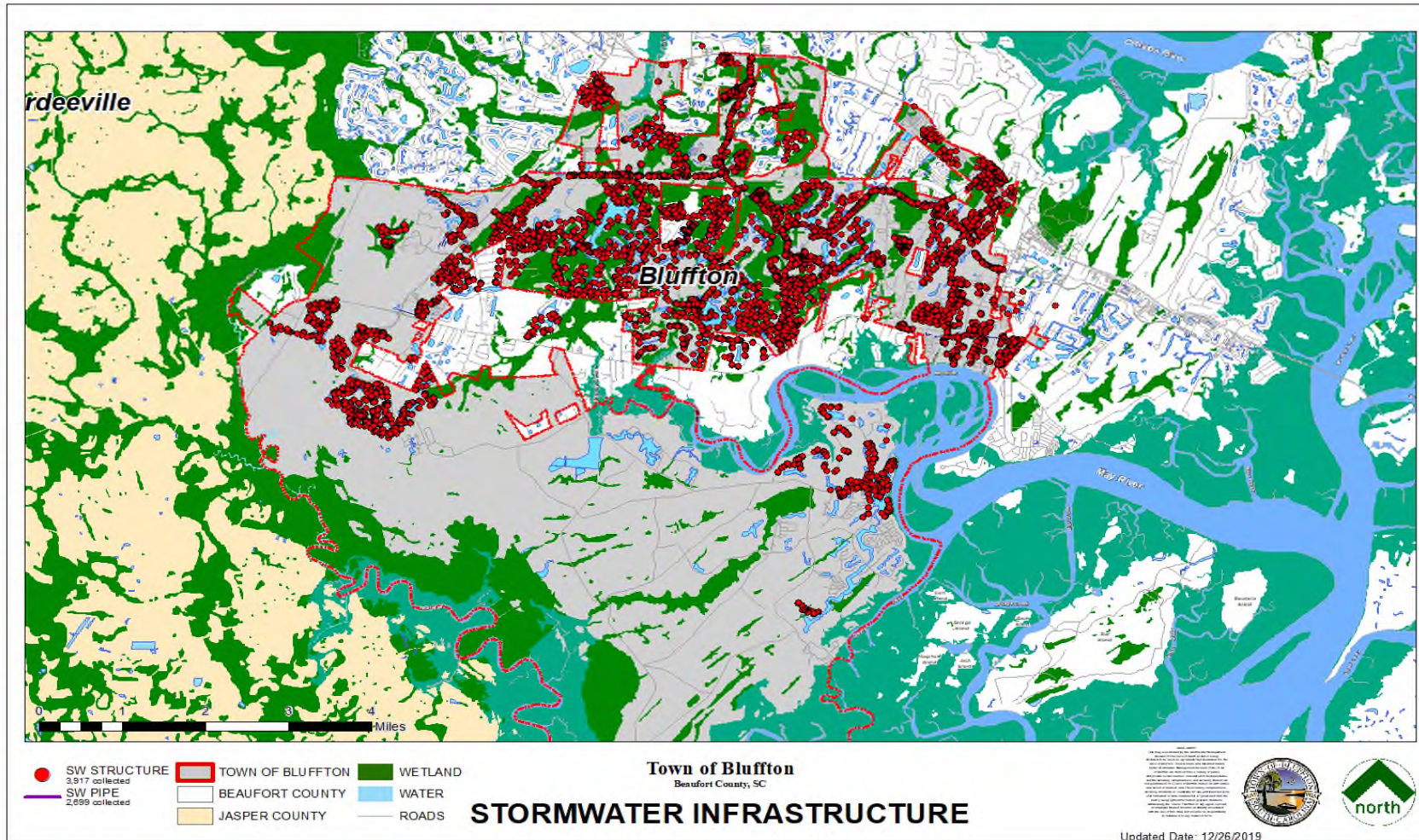
- VII. OLD BUSINESS
 - 1. Water Quality Monitoring Program (standing item)
 - a. Weekly Sampling Update
 - b. Microbial Source Tracking (MST) Update
 - c. SCDHEC Shellfish Data Update
 - 2. Proposed Water Quality Monitoring Program Changes
 - 3. Watershed Management Division FY21-22 Work Plan Priorities – Formal Recommendation
- VIII. NEW BUSINESS
 - 1. Proposed 2020 meeting dates and time
- IX. ADJOURNMENT

NEXT MEETING DATE: Proposed Thursday, January 23, 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.

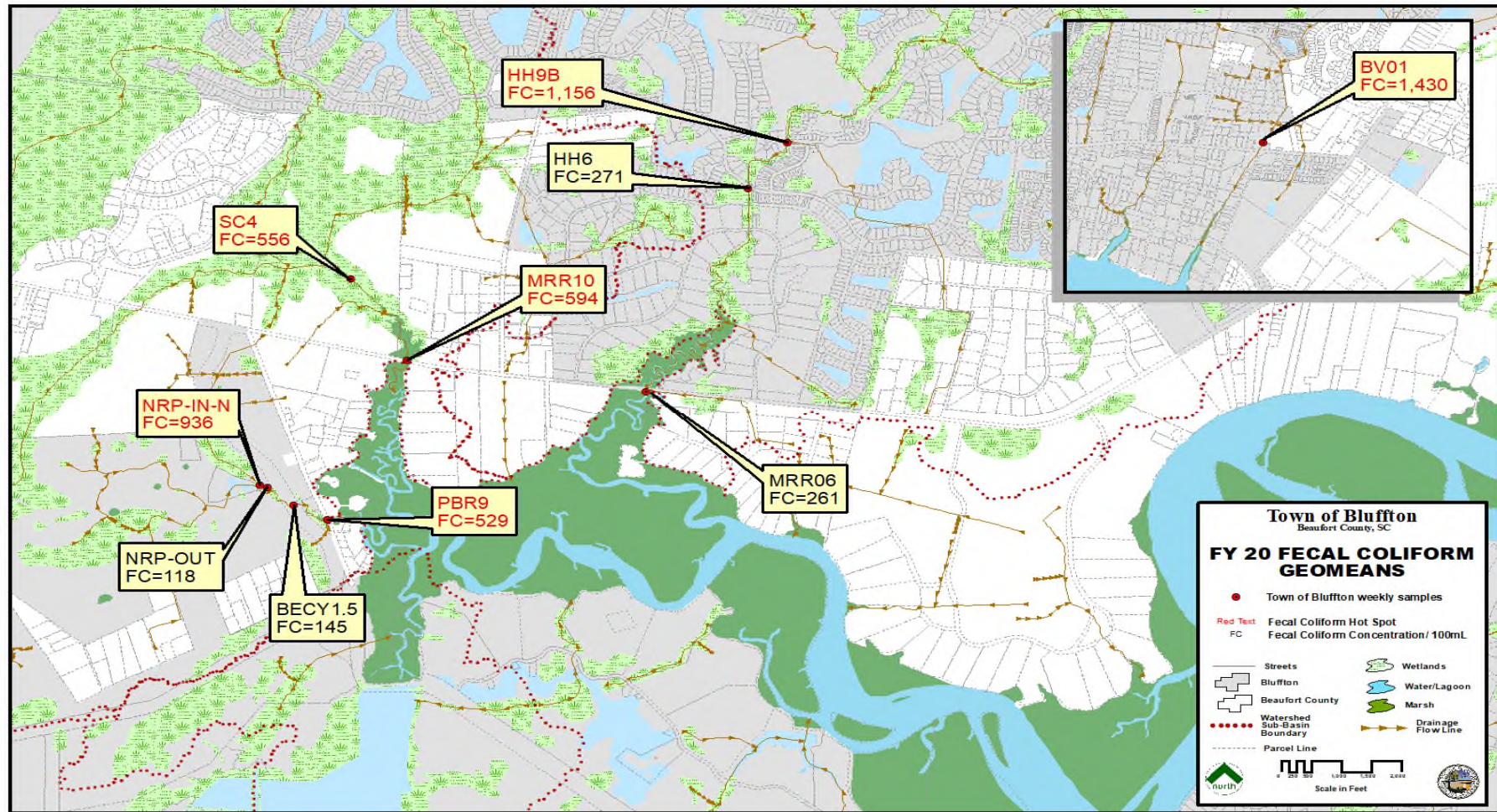
EXECUTIVE SESSION – The public body may vote to go into executive session for any item identified for action on the agenda.

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



Stormwater Infrastructure Inventory Collection Status	
FY 2020 YTD Collection Totals	2,026
FY 2019 Collection Totals	2,925
FY 2018 Collection Totals	3,777

MS4 Minimum Control Measure #3 – IDDE: Fecal Coliform Concentrations Trend Map



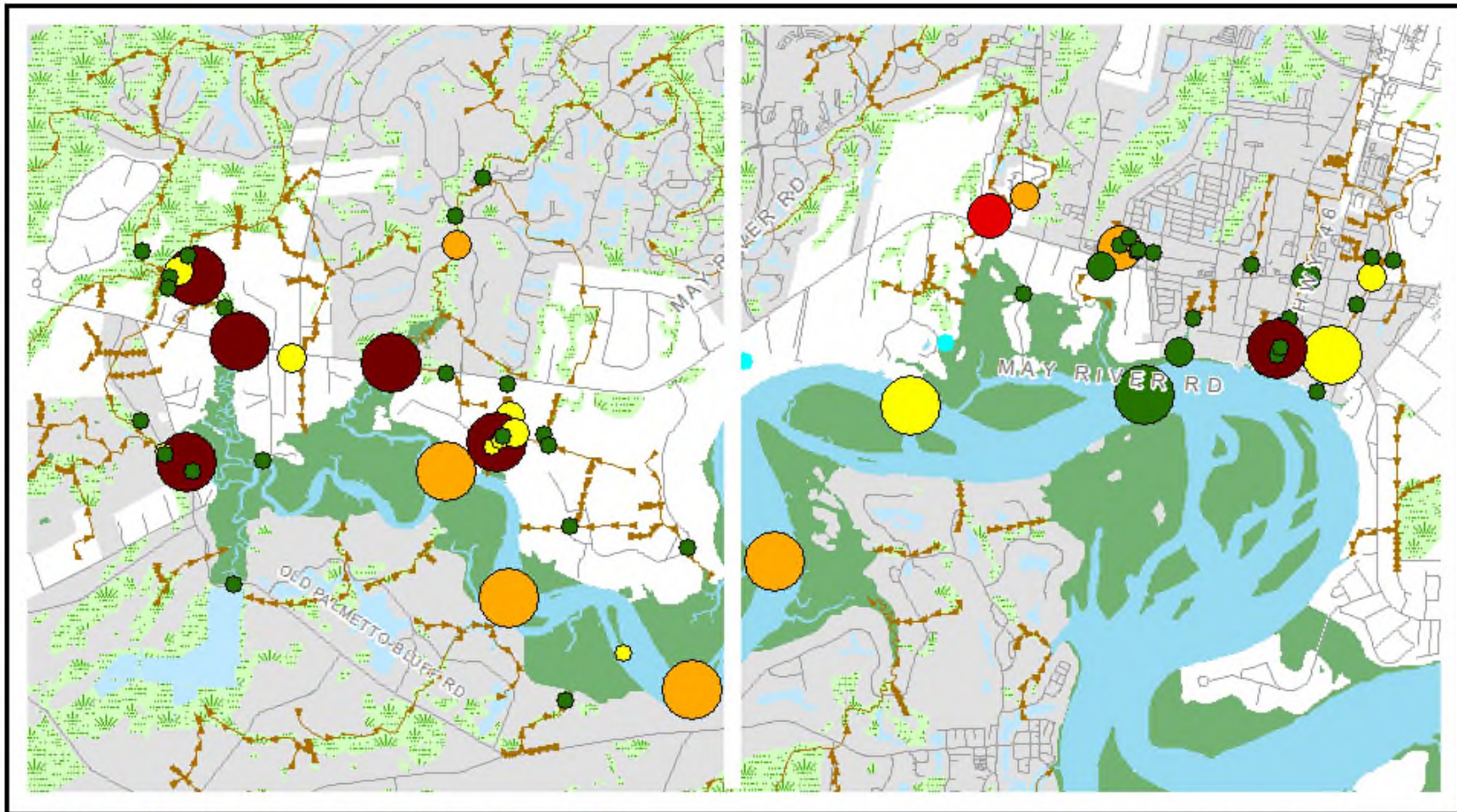
fecal coliform geomeans up dated as of: 12/26/2019

	USCB Water Quality Samples	Microbial Source Tracking Samples	MS4 Quarterly Samples Collected
FY 2020 YTD Totals	105	49	60
FY 2019 Totals	280	193	264
FY 2018 Totals	216	217	224
FY 2017 Totals	307	179	224

12/30/2019

- 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) Human Sources Trend Map



Microbial Source Tracking Trend Map
Headwaters May River

Microbial Source Tracking Trend Map
Old Town May River

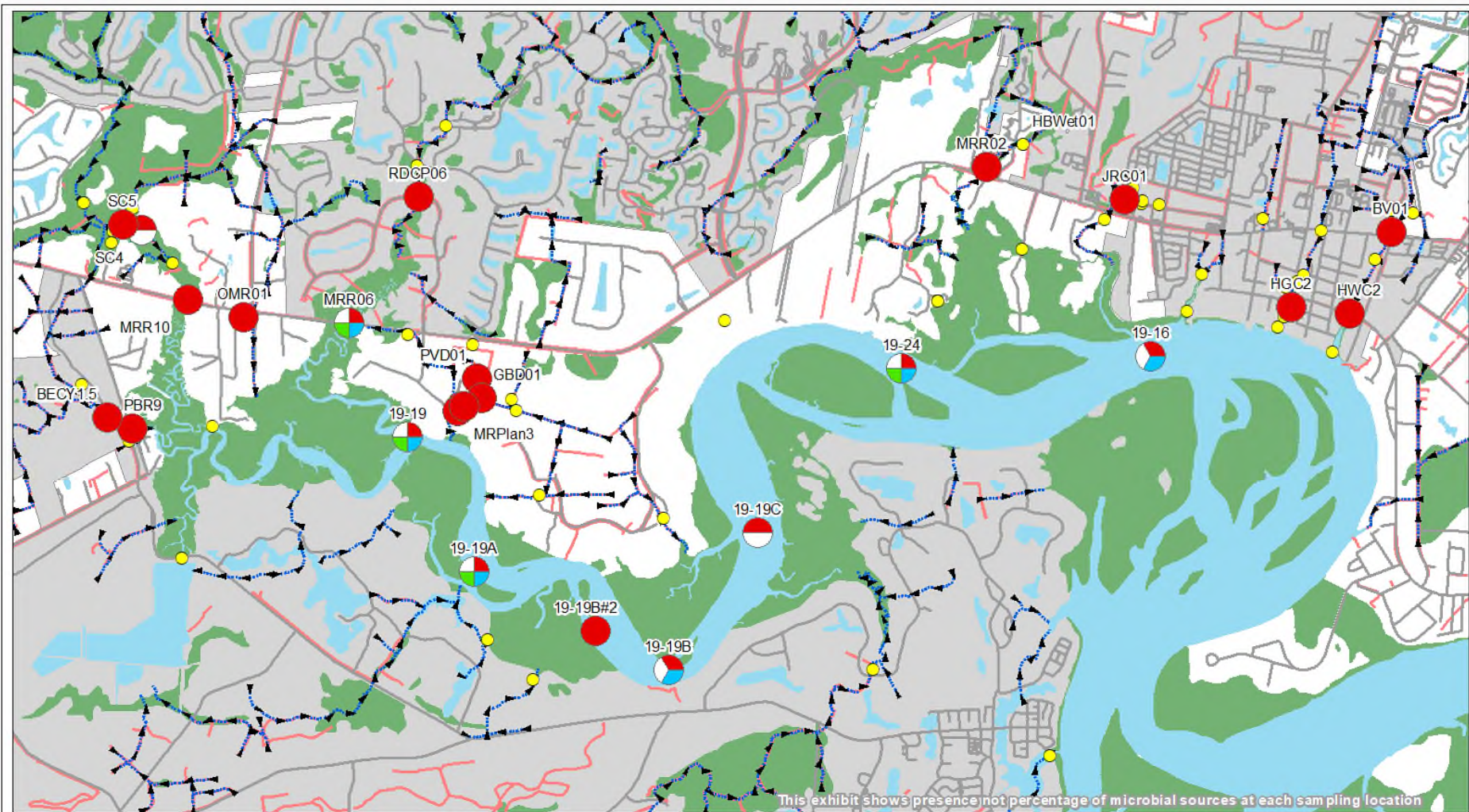


MS4 Minimum Control Measure #3 – IDDE: Microbial Source Tracking (MST) Human Sources Trend Map. This map was created using data from the May River Watershed. The map shows the location of sampling sites and the number of positive hits and times sampled. The size of the dot represents the number of times the site has been sampled. The color of the dot represents the number of positive hits. The map also shows drainage flow lines. The map is updated as of 12/26/2019.

Updated Date: 12/26/2019



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



- Microbial Sources
- Human
- Bird
- Deer
- Dog
- MST Sampling Location Without Detection
- Flowline
- Drainage Ditch
- Street
- Town Jurisdiction

Microbial Sources Detected Within the May River 2017 - 2019

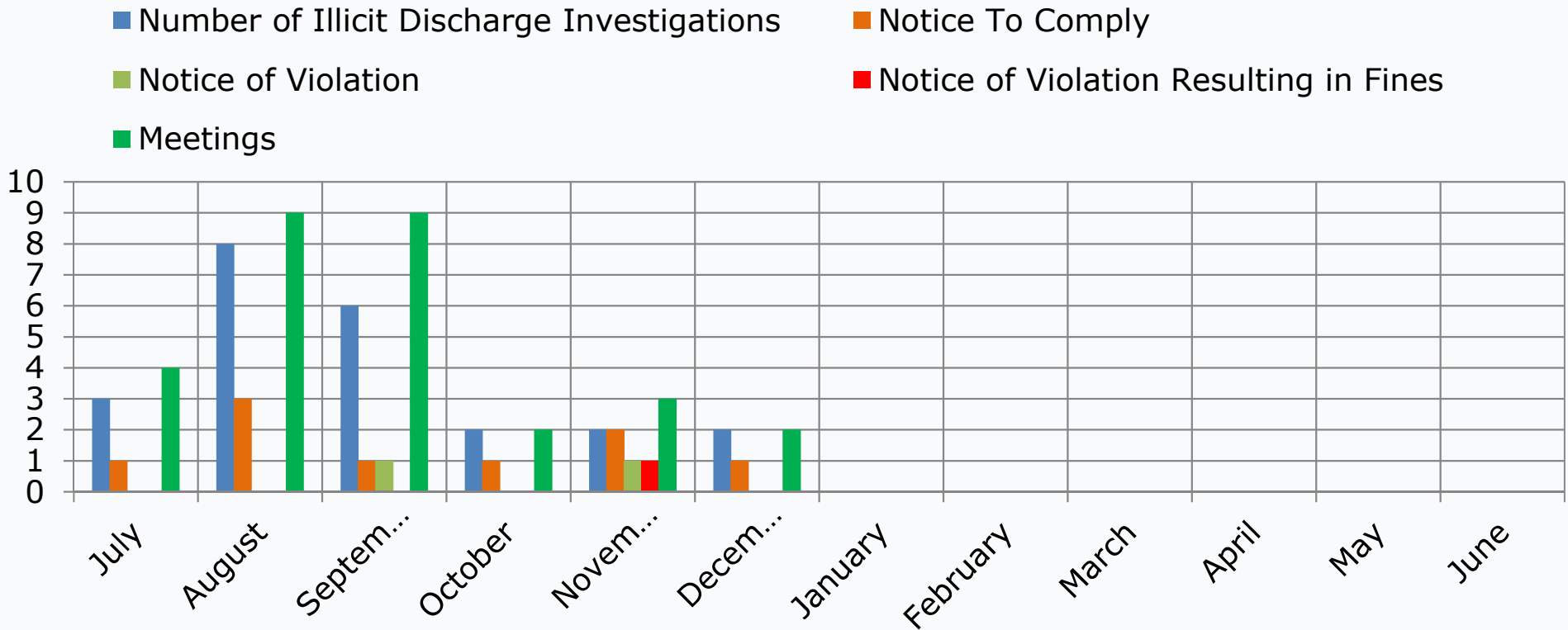
Town of Bluffton
Beaufort County, SC

Updated Date: 12/27/2019

MS4 IDDE
This program is part of the Stormwater Management Program. The program is designed to identify and eliminate the sources of stormwater pollution that contribute to the degradation of the Town of Bluffton's water resources. The program is a key component of the Town's overall stormwater management strategy and is designed to protect the health and safety of the community and the environment. The program is a key component of the Town's overall stormwater management strategy and is designed to protect the health and safety of the community and the environment.



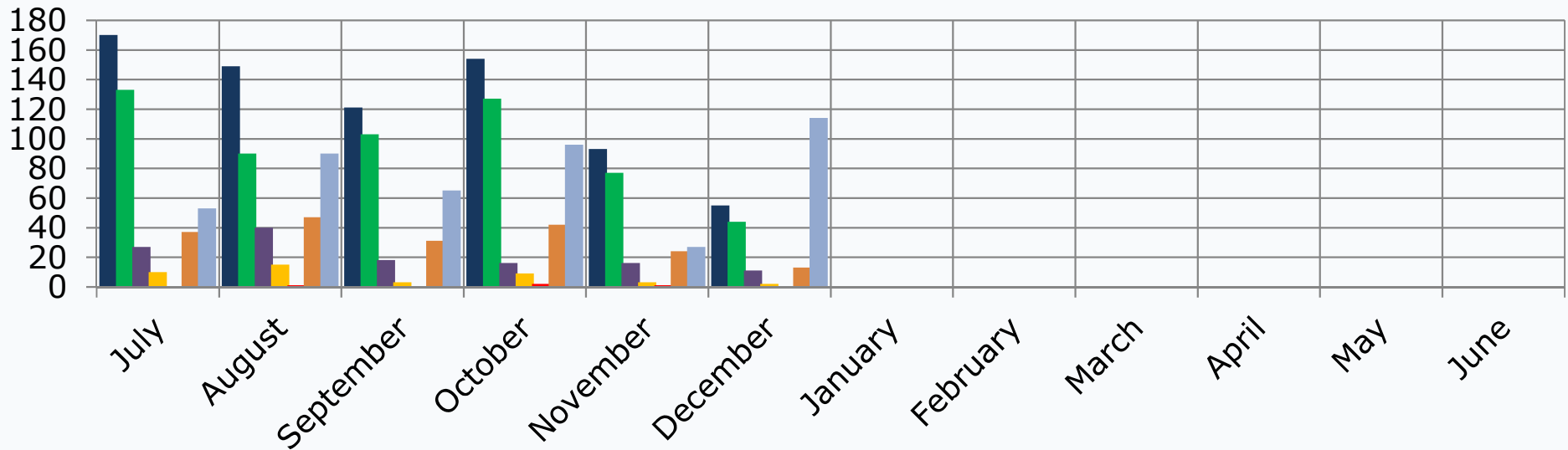
MS4 Minimum Control Measure #3 – IDDE: Illicit Discharge Investigations



	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	23	9	2	1	29
FY 2019 Totals	38	20	3	1	61
FY 2018 Totals	48	20	4	2	60

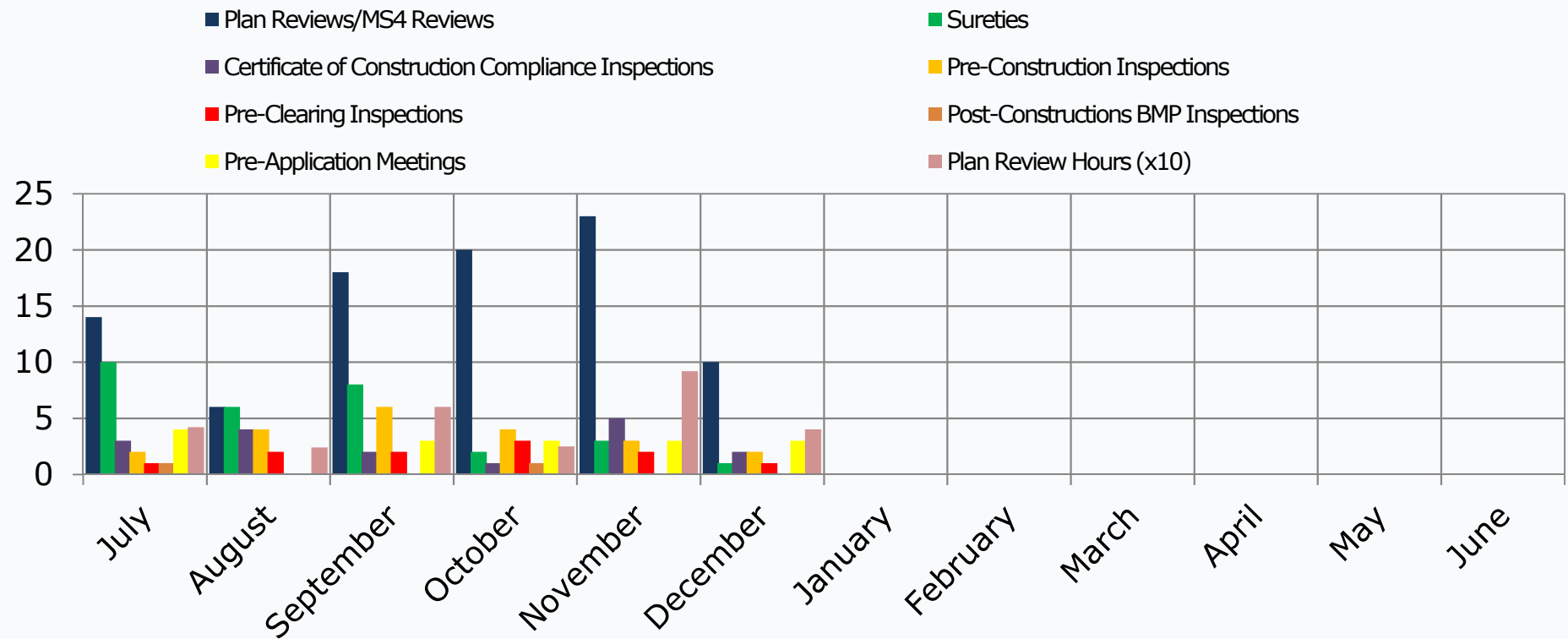
MS4 Minimum Control Measure #4 - Construction Site Stormwater Runoff Control

- Erosion & Sediment Control Inspections (E&SC)
- Number of Notice To Comply (NTC)
- Number of Fines for Notice of Violation
- Number of Inspections Passed
- Number of Notice of Violation (NOV)
- Number of Erosion & Sediment Control Meetings



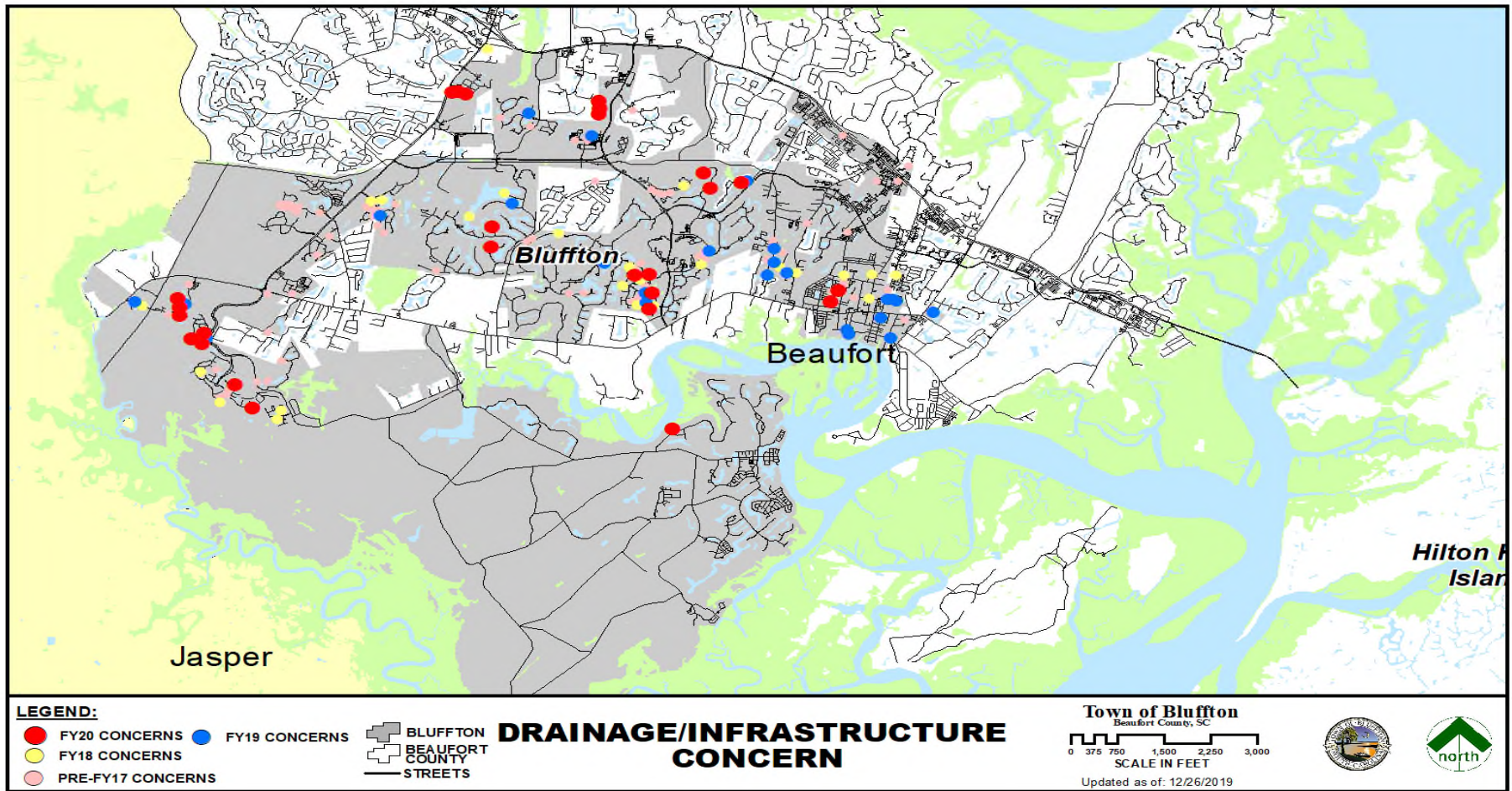
	Number of Sediment & Erosion Control Inspections	Number of Inspections Passed	Number of NTC Issued	Number of NOV Issued	Number of NOV Enforcement Actions	Number of E&SC Meetings
FY 2020 YTD Totals	742	574	128	42	4	194
FY 2019 Totals	1,688	1,384	254	72	7	403
FY 2018 Totals	1,504	1,159	300	83	10	499

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



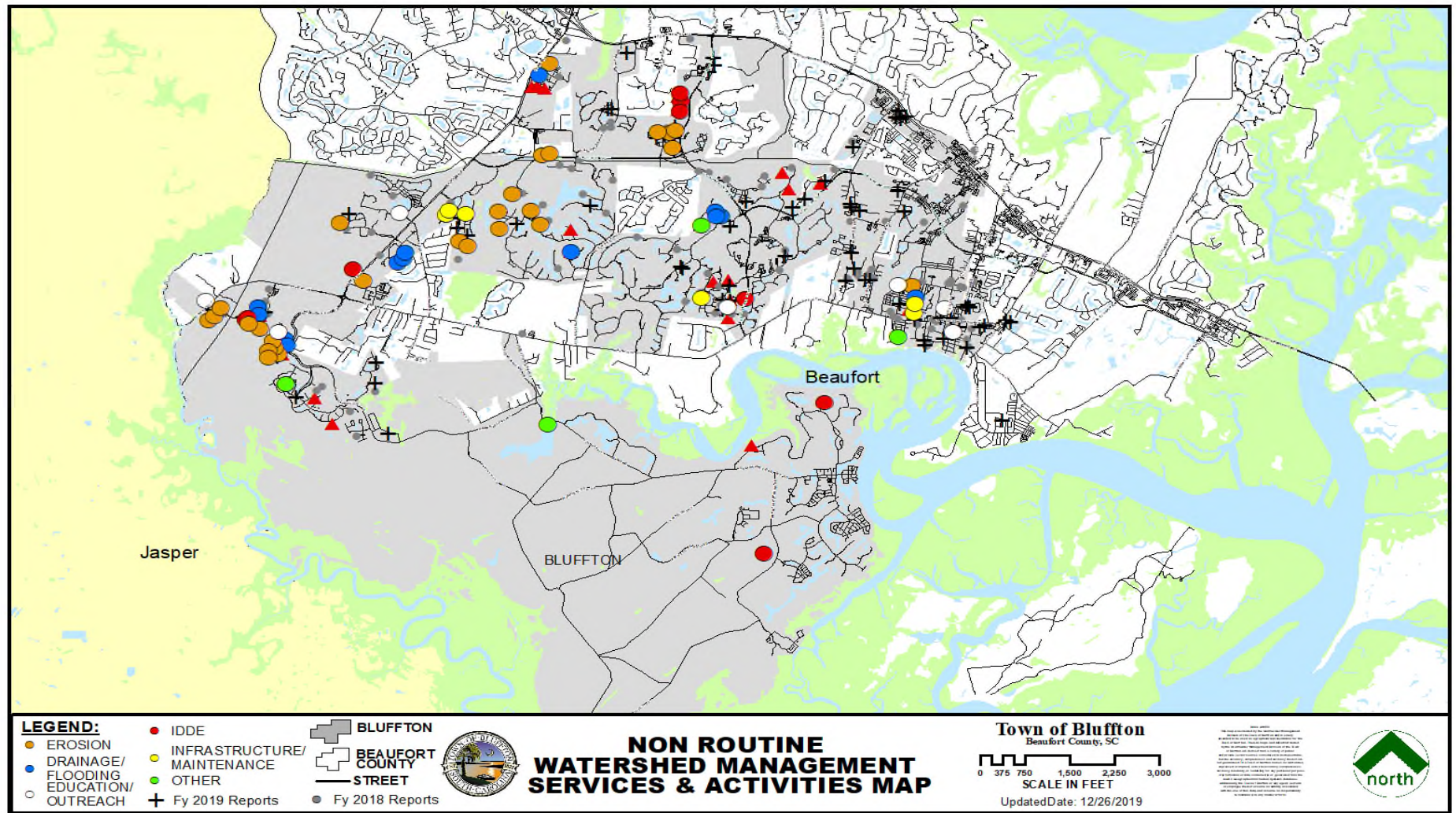
	Plan Reviews MS4 Reviews	Sureties	Certificate of Construction Compliance Inspections	Pre-Construction Meetings	Pre-Clearing Inspections	Post Construction BMP Inspections	Pre-Application Meetings	Total Plan Review Hours
FY 2020 YTD Totals	91	30	17	21	11	2	16	283 Hrs.
FY 2019 Totals	208	52	53	47	37	27	63	1,040 Hrs.
FY 2018 Totals	242	59	50	32	32	88	88	1,210 Hrs.

Citizen Drainage Concern Map (Drainage, Maintenance and Inspections)



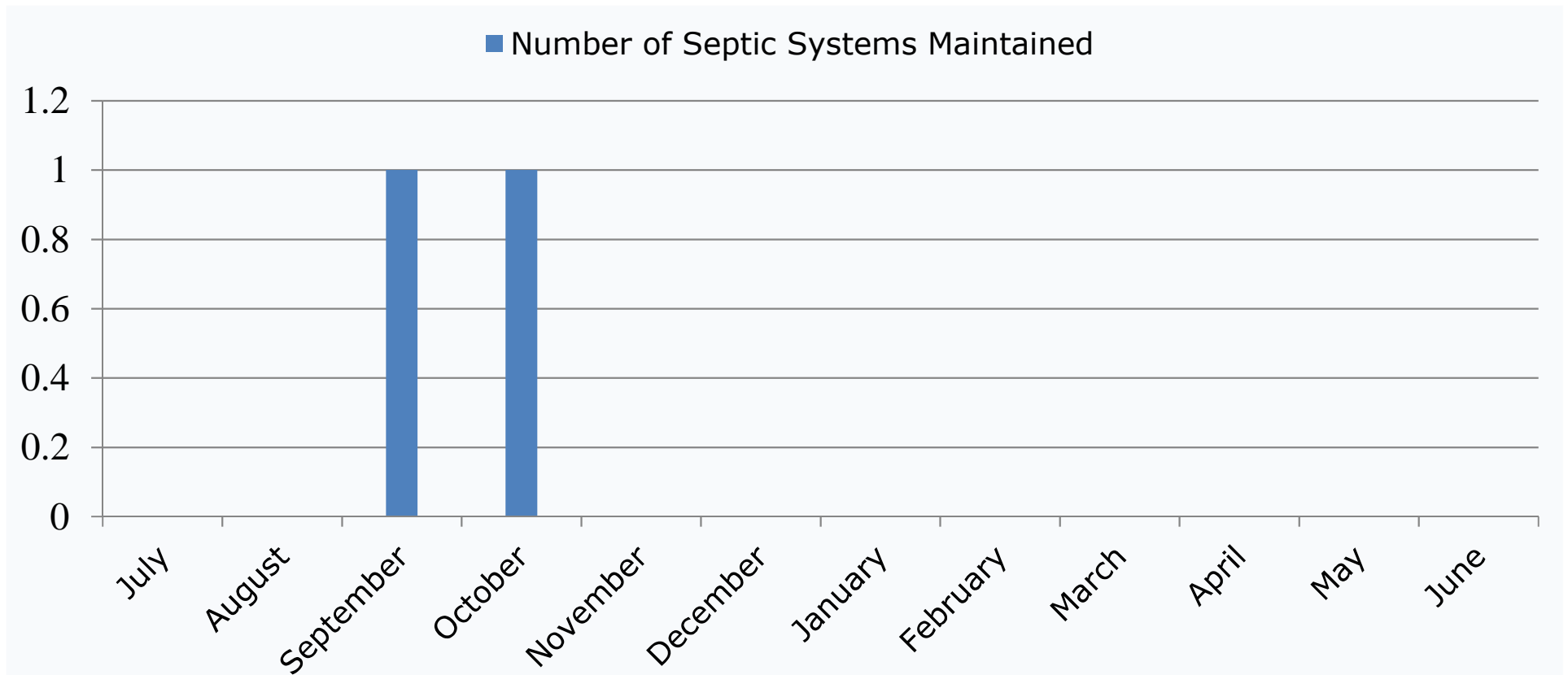
	Number of Drainage Concerns Investigated	Number of Meetings
FY 2020 YTD Totals	32	44
FY 2019 Totals	54	59
FY 2018 Totals	48	75

Citizen Request for Watershed Mngt. Services & Activities Map



	Number of Citizen Requests Investigated	Number of Meetings
FY 2019 YTD Totals	74	78
FY 2018 Totals	75	79
FY 2017 Totals	53	82

Septic System Maintenance Assistance



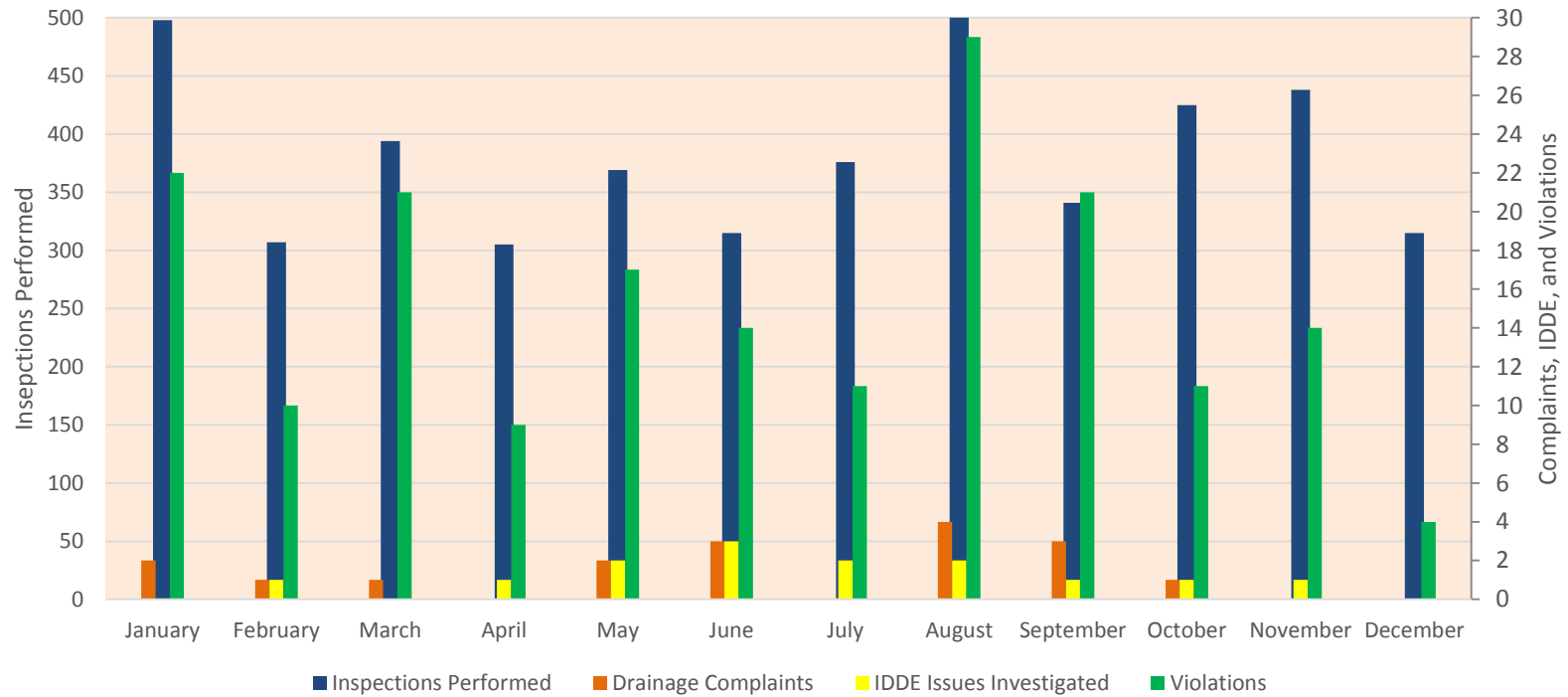
	Number of Septic Systems Maintained
FY 2020 YTD Totals	2
FY 2019 Totals	4
FY 2018 Totals	16

MS4 Minimum Control Measure #5 Stormwater Plan Review



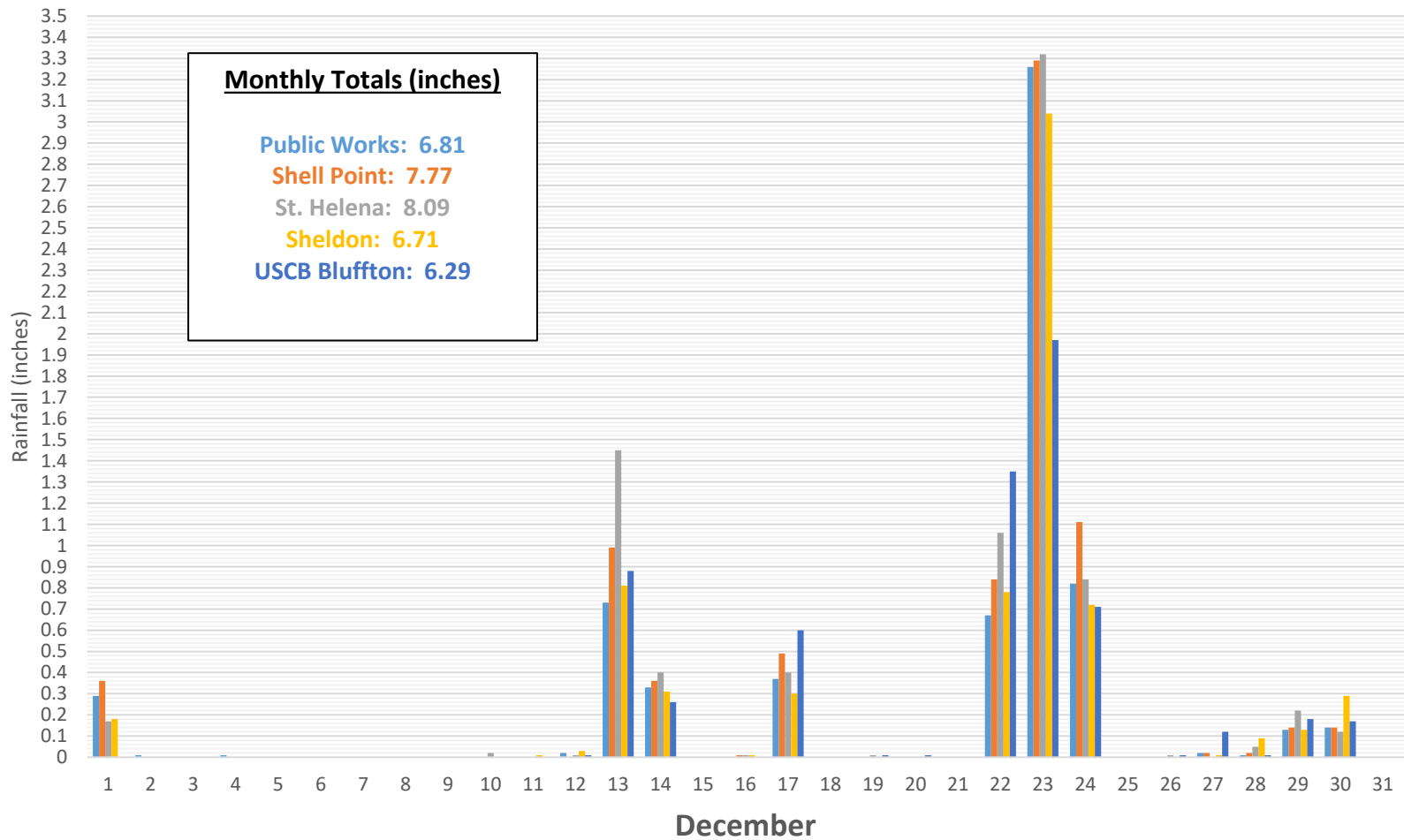
TYPE	January	February	March	April	May	June	July	August	September	October	November	December	Last 12 Months
Development Permit (COC's)	20	10	2	1	9	12	3	39	13	10	11	1	131
Plan Review	9	10	8	7	11	17	11	12	5	9	11	6	116
Permits Issued	38	36	42	34	40	20	31	50	36	30	17	21	395

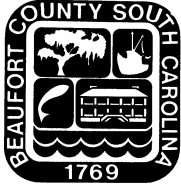
MS4 Minimum Control Measure #4 Erosion Sediment Control Inspections



TYPE	January	February	March	April	May	June	July	August	September	October	November	December	Last 12 Months
Inspections Performed	498	307	394	305	369	315	376	525	341	425	438	315	4608
Drainage Complaints	2	1	1	0	2	3	0	4	3	1	0	0	17
IDDE Issues Investigated	0	1	0	1	2	3	2	2	1	1	1	0	14
Violations	22	10	21	9	17	14	11	29	21	11	14	4	183

Beaufort County Weather Stations Daily Rainfall Amounts - December 2019





MEMORANDUM

Date: January 8, 2020

To: Stormwater Management Utility Board

From: Matthew Rausch, Stormwater Infrastructure Superintendent

Re: **Maintenance Project Report**

This report will cover one major project and nine minor projects. The Project Summary Reports are attached.

Major Project:

- **Crystal Lake – Lady’s Island (SWUD 7):** This project improved 1,024 feet of drainage system. The scope of work included grubbing and clearing 810 feet of workshelf, jetting 214 feet of channel pipe and hydroseeding for erosion control. The total cost was **\$34,371.51**.

Minor or Routine Projects:

- **Lady’s Island Bush Hog – Lady’s Island (SWUD 7):** This project improved 19,997 feet of drainage system. The scope of work included bush hogging 19,997 feet of channel. The total cost was **\$13,554.63**.
- **Ihly Farm Road – Port Royal Island (SWUD 6):** This project improved 3,481 feet of drainage system. The scope of work included bush hogging 1,378 feet of channel, cleaning out 1,550 feet of channel and 553 feet of roadside ditch. The total cost was **\$13,461.62**.
- **Okatie East Retrofit – Bluffton (SWUD 4):** The scope of work included repairing 1 catch basin, repairing a washout and installing rip rap for erosion control. The total cost was **\$13,138.39**.
- **Seigler Road Channel #2 – Sheldon (SWUD 5):** The scope of work included installing 1 flap gate and hand seeding for erosion control. The total cost was **\$11,902.95**.
- **Franklin Drive – Port Royal Island (SWUD 6):** This project improved 3,560 feet of drainage system. The scope of work included bush hogging 1,669 feet of channel and cleaning out 2,381 feet of channel. The total cost was **\$7,884.76**.
- **Port Royal Island Sinkhole Repair – Port Royal Island (SWUD 6):** The scope of work included repairing sinkholes. The total cost was **\$5,206.65**.
- **Bluffton Pond Maintenance – Bluffton (SWUD 4):** The scope of work included bricking in overflow of pond opening. The total cost was **\$3,447.93**.
- **Woodbridge Subdivision – Bluffton (SWUD 4):** This project improved 480 feet of drainage system. The scope of work included cleaning out 480 feet of roadside ditch and hydroseeding for erosion control. The total cost was **\$2,383.66**.

- **Indian Trail – Hilton Head Island (SWUD 3):** This project improved 60 feet of drainage system. The scope of work included cleaning out 60 feet of driveway and jetting 1 driveway pipe. The total cost was **\$949.85**.



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Crystal Lake

Activity: Pond Maintenance

Duration: 10/03/19-10/29/19

Narrative Description of Project:

Project improved 1,024 L.F. of drainage system. Grubbed and cleared 810 L.F. of workshelf. Jetted 214 L.F. of channel pipe. Hydroseeded for erosion control.

2020-017 / Crystal Lake

	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
CPJ / Channel Pipe - Jetted	10.0	\$228.80	\$191.60	\$54.35	\$0.00	\$148.50	\$623.25
DEBREM / Debris Removal - Jobsite	130.0	\$3,623.10	\$1,285.09	\$215.96	\$0.00	\$1,066.80	\$6,190.95
HAUL / Hauling	199.3	\$4,480.95	\$2,683.22	\$2,536.12	\$0.00	\$1,697.32	\$11,397.61
HYDR / Hydroseeding	60.0	\$1,713.60	\$161.01	\$945.68	\$0.00	\$523.20	\$3,343.49
WSDR / Workshelf - Dressed	40.0	\$1,188.90	\$339.68	\$72.01	\$0.00	\$333.90	\$1,934.49
WSGRB / Workshelf - Grubbed	211.0	\$6,070.87	\$2,333.40	\$500.70	\$0.00	\$1,933.17	\$10,838.13
2020-017 / Crystal Lake Sub Total	652.3	\$17,349.80	\$6,994.00	\$4,324.82	\$0.00	\$5,702.89	\$34,371.51
Grand Total	652.3	\$17,349.80	\$6,994.00	\$4,324.82	\$0.00	\$5,702.89	\$34,371.51

Before

During

After

(No Picture Available)



Project: Crystal Lake Map #1

Activity: Pond Maintenance

Project #: 2020-017

Township/SW Dist: Lady's Island/7

Completed: October 2019



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



1 inch = 100 feet

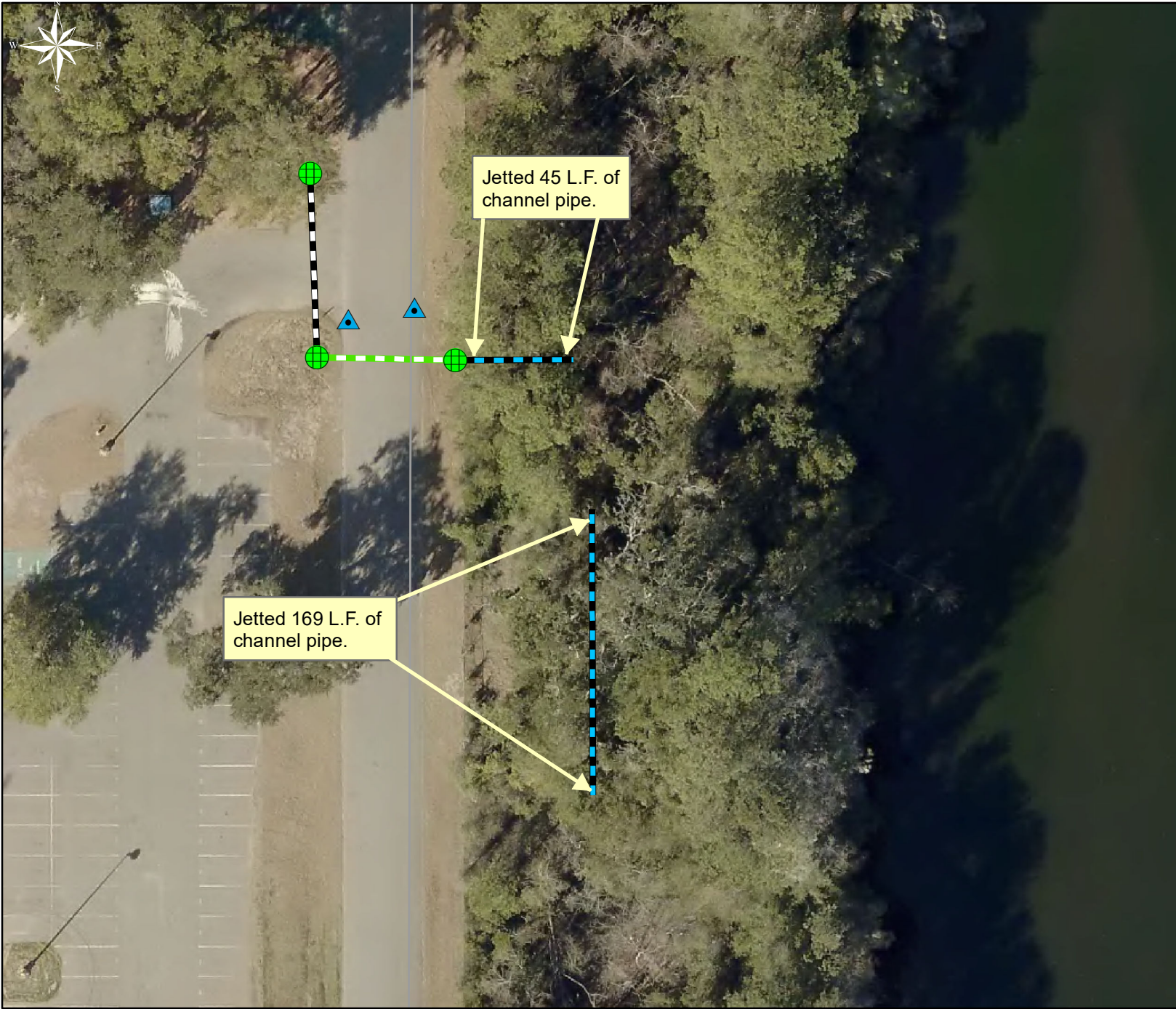
Project: Crystal Lake Map #2

Activity: Pond Maintenance

Project #: 2020-017

Township/SW Dist: Lady's Island/7

Completed: October 2019



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



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Lady's Island Bush Hog

Activity: Routine/Preventive Maintenance

Duration: 10/01/19-11/05/19

Narrative Description of Project:

First Rotation: 10/01/19-11/05/19 Project improved 19,997 L.F. of drainage system. Bush hogged 19,997 L.F. of channel. This project consisted of the following areas: Francis Marion Circle (514 L.F.), Wade Hampton Drive (330 L.F.), Jasper Lane (626 L.F.), Sam's Point Road (1,515 L.F.), Braeburn Lane (1,773 L.F.), Christine Drive (200 L.F.), Token Lane (1,336 L.F.), Honeysuckle Lane (750 L.F.), Brickyard Point N (700 L.F.), Pleasant Point Drive (510 L.F.), Deveaux Road (1,175 L.F.), Johnson Landing Road (250 L.F.), Marsh Road (388 L.F.), Holly Hall Road (676 L.F.), Sheppard Road (380 L.F.), Gumwood Drive (262 L.F.), Little Capers Road (900 L.F.), Alumni Road (3,933 L.F.), Faculty Drive (500 L.F.), Beauty Berry Lane (2,341 L.F.), and Eustis Landing Road (938 L.F.)

2020-302 / Lady's Island Bush Hog

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.5	\$32.69	\$0.00	\$0.00	\$0.00	\$0.00	\$32.69
CBH / Channel- bushhogged	276.0	\$6,152.96	\$2,800.74	\$608.55	\$0.00	\$3,959.70	\$13,521.95
2020-302 / Lady's Island Bush Hog Sub Total	277.5	\$6,185.65	\$2,800.74	\$608.55	\$0.00	\$3,959.70	\$13,554.63
Grand Total	277.5	\$6,185.65	\$2,800.74	\$608.55	\$0.00	\$3,959.70	\$13,554.63

Before



During



After





Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Ihly Farm Road

Activity: Routine/Preventive Maintenance

Duration: 09/26/19-11/07/19

Narrative Description of Project:

Project improved 3,481 L.F. of drainage system. Bush hogged 1,378 L.F. of channel. Cleaned out 1,550 L.F. of channel and 553 L.F. of roadside ditch.

2020-015 / Ihly Farm Road	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.5	\$32.69	\$0.00	\$0.00	\$0.00	\$0.00	\$32.69
CBH / Channel- bushhogged	30.0	\$608.25	\$293.04	\$92.65	\$0.00	\$198.45	\$1,192.39
CCO / Channel - cleaned out	145.0	\$3,079.21	\$820.87	\$244.45	\$0.00	\$1,207.41	\$5,351.94
DEBREM / Debris Removal - Jobsite	65.0	\$1,357.79	\$517.45	\$163.45	\$0.00	\$518.67	\$2,557.36
HAUL / Hauling	61.0	\$1,362.07	\$863.76	\$170.20	\$0.00	\$807.52	\$3,203.55
RSDCL / Roadside Ditch - Cleanout	30.0	\$608.25	\$268.70	\$48.30	\$0.00	\$198.45	\$1,123.70
2020-015 / Ihly Farm Road Sub Total	332.5	\$7,048.26	\$2,763.82	\$719.05	\$0.00	\$2,930.50	\$13,461.62
Grand Total	332.5	\$7,048.26	\$2,763.82	\$719.05	\$0.00	\$2,930.50	\$13,461.62

Before

During

After

(No Picture Available)

(No Picture Available)



Project: Ihly Farm
Road Map #1

Activity: Routine/
Preventive
Maintenance

Project #:
2020-015

Township/SW Dist:
Port Royal Island/6

Completed:
November 2019



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



1 inch = 130 feet



Project: Ihly Farm Road Map #2

Activity: Routine/ Preventive Maintenance














Project #: 2020-015

Township/SW Dist: Port Royal Island/6

Completed: November 2019

Legend

Drainage Type

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

Cleared out 1,550 L.F. of channel.

0 30 60 120 180 240 Feet

1 inch = 130 feet

Prepared By: BC Stormwater Management Utility
 Date Print: 12/16/19
 File: C:\project summaries map\Ihly Farm Road Map #2_2020-015

Project: Ihly Farm Road Map #3

Activity: Routine/ Preventive Maintenance

Project #: 2020-015

Township/SW Dist: Port Royal Island/6

Completed: November 2019



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



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Okatie East Retrofit

Activity: Routine/Preventive Maintenance

Duration: 06/15/18-04/29/19

Narrative Description of Project:

Repaired (1) catch basin and washout. Installed rip rap for erosion control.

2018-620 / Okatie East Retrofit	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.5	\$32.69	\$0.00	\$0.00	\$0.00	\$0.00	\$32.69
CBREP / Catch basin - repaired	40.0	\$830.40	\$388.55	\$128.86	\$0.00	\$519.00	\$1,866.81
CCSRT / Concrete construction	20.0	\$409.20	\$19.20	\$1,306.16	\$0.00	\$254.40	\$1,988.96
HAUL / Hauling	70.0	\$1,904.05	\$920.10	\$4,053.18	\$0.00	\$572.35	\$7,449.68
PRRECON / Project Reconnaissance	32.0	\$729.28	\$30.72	\$44.40	\$0.00	\$429.64	\$1,234.04
RRI / Rip Rap - Installed	15.0	\$309.90	\$44.08	\$18.88	\$0.00	\$193.35	\$566.21
2018-620 / Okatie East Retrofit Sub Total	178.5	\$4,215.52	\$1,402.65	\$5,551.49	\$0.00	\$1,968.74	\$13,138.39
Grand Total	178.5	\$4,215.52	\$1,402.65	\$5,551.49	\$0.00	\$1,968.74	\$13,138.39

Before

During

After

(No Picture Available)

(No Picture Available)





Project: Okatie East Retrofit

Activity: Routine/ Preventive Maintenance














Project #: 2018-620

Township/SW Dist: Bluffton/4

Completed: April 2019

Legend

Drainage Type

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



1 inch = 130 feet

Prepared By: BC Stormwater Management Utility
 Date Print: 12/09/19
 File: C:\project summaries map\Okatie East Retrofit_2018-620



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Seigler Road Channel #2

Activity: Routine/Preventive Maintenance

Duration: 04/02/19-09/24/19

Narrative Description of Project:

Installed (1) flap gate. Handseeded for erosion control.

2019-550A / Seigler Road Channel #2	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
FLAPGATE / Flapgate - Installed	40.0	\$814.70	\$143.92	\$4,347.81	\$0.00	\$386.70	\$5,693.13
FLAPGATI / Flap Gate - Inspection	6.0	\$123.96	\$7.68	\$19.44	\$0.00	\$77.34	\$228.42
HAND / HANDSEEDED	6.0	\$123.96	\$7.68	\$41.50	\$0.00	\$77.34	\$250.48
HAUL / Hauling	31.0	\$704.77	\$438.96	\$682.94	\$0.00	\$158.62	\$1,985.29
LM / Loading Materials	15.0	\$309.90	\$19.20	\$17.28	\$0.00	\$193.35	\$539.73
STAGING / Staging Materials/Equipment	43.0	\$882.78	\$46.08	\$51.84	\$0.00	\$549.51	\$1,530.21
WSL / Workshelf - Level	30.0	\$607.80	\$99.60	\$570.00	\$0.00	\$376.50	\$1,653.90
2019-550A / Seigler Road Channel #2 Sub Total	172.0	\$3,589.66	\$763.12	\$5,730.81	\$0.00	\$1,819.36	\$11,902.95
Grand Total	172.0	\$3,589.66	\$763.12	\$5,730.81	\$0.00	\$1,819.36	\$11,902.95

Before

(No Picture Available)

During

(No Picture Available)

After





Project: Seigler Road Channel #2

Activity: Routine/ Preventive Maintenance














Project #: 2019-550A

Township/SW Dist: Sheldon/5

Completed: September 2019

Legend

Drainage Type

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



1 inch = 210 feet

Prepared By: BC Stormwater Management Utility

Date Print: 10/28/19

File: C:\project summaries map\Seigler Road Channel #2_2019-550A



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Franklin Drive

Activity: Routine/Preventive Maintenance

Duration: 09/24/19-09/30/19

Narrative Description of Project:

Project improved 3,560 L.F. of drainage system. Bush hogged 1,669 L.F. and cleaned out 2,381 L.F. of channel.

2020-012 / Franklin Drive	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
CBH / Channel- bushhogged	30.0	\$608.25	\$322.92	\$68.67	\$0.00	\$198.45	\$1,198.29
CCO / Channel - cleaned out	114.0	\$2,598.24	\$539.84	\$131.76	\$0.00	\$1,349.46	\$4,619.30
HAUL / Hauling	38.0	\$869.30	\$538.08	\$551.48	\$0.00	\$86.52	\$2,045.38
2020-012 / Franklin Drive Sub Total	183.0	\$4,097.58	\$1,400.84	\$751.91	\$0.00	\$1,634.43	\$7,884.76
Grand Total	183.0	\$4,097.58	\$1,400.84	\$751.91	\$0.00	\$1,634.43	\$7,884.76

Before

(No Picture Available)

During

(No Picture Available)

After



Project: Franklin Drive Map #1

Activity: Routine Preventive Maintenance

Project #: 2020-012

Township/SW Dist: Port Royal Island/6

Completed: September 2019



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



1 inch = 250 feet

Project: Franklin Drive Map #2

Activity: Routine Preventive Maintenance

Project #: 2020-012

Township/SW Dist: Port Royal Island/6

Completed: September 2019



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: 10/15/19
File: C:\project summaries map\Franklin Drive Map #2_2020-012

Project: Franklin Drive Map #3

Activity: Routine Preventive Maintenance

Project #: 2020-012

Township/SW Dist: Port Royal Island/6

Completed: September 2019



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: 10/15/19
 File: C:\project summaries map\Franklin Drive Map #3_2020-012



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Port Royal Island Sinkhole Repair

Activity: Routine/Preventive Maintenance

Duration: 11/27/18-12/04/18

Narrative Description of Project:

Repaired sinkholes.

2019-533 / Port Royal Island Sinkhole Repair	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.5	\$32.69	\$0.00	\$0.00	\$0.00	\$0.00	\$32.69
HAUL / Hauling	29.0	\$605.84	\$410.64	\$83.59	\$0.00	\$205.98	\$1,306.05
SD / Soft Digging	30.0	\$668.40	\$574.80	\$86.56	\$0.00	\$430.20	\$1,759.96
SITEINSP / Site Inspection	40.0	\$814.70	\$36.00	\$15.84	\$0.00	\$386.70	\$1,253.24
SR / Sinkhole repair	21.0	\$455.91	\$54.31	\$203.05	\$0.00	\$141.45	\$854.72
2019-533 / Port Royal Island Sinkhole Repair Sub Total	121.5	\$2,577.54	\$1,075.75	\$389.04	\$0.00	\$1,164.33	\$5,206.65
Grand Total	121.5	\$2,577.54	\$1,075.75	\$389.04	\$0.00	\$1,164.33	\$5,206.65

(No Pictures Available)



Project: Port Royal
Island Sinkhole
Repair Map #1

Activity: Routine/
Preventive
Maintenance














Project #:
2019-533

Township/SW Dist:
Port Royal Island/6

Completed:
December 2018

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: 12/09/19

File: C:\project summaries map\Port Royal Island Sinkhole Repair Map #1_2019-533



Project: Port Royal Island Sinkhole Repair Map #2

Activity: Routine/ Preventive Maintenance














Project #: 2019-533

Township/SW Dist: Port Royal Island/6

Completed: December 2018

Legend

Drainage Type

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



1 inch = 100 feet

Prepared By: BC Stormwater Management Utility

Date Print: 12/09/19

File: C:\project summaries map\Port Royal Island Sinkhole Repair Map #2_2019-533



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Bluffton Pond Maintenance - Highway 170 Pond

Activity: Pond Maintenance

Duration: 02/07/19-03/11/19

Narrative Description of Project:

Bricked in overflow of pond opening.

2019-321 / Pond Maintenance	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
HAUL / Hauling	10.0	\$222.70	\$141.60	\$34.95	\$0.00	\$144.20	\$543.45
PM / Ponds - Maintenance	72.0	\$1,605.13	\$336.68	\$165.90	\$0.00	\$774.99	\$2,882.69
2019-321 / Pond Maintenance Sub Total	83.0	\$1,849.62	\$478.28	\$200.85	\$0.00	\$919.19	\$3,447.93
Grand Total	83.0	\$1,849.62	\$478.28	\$200.85	\$0.00	\$919.19	\$3,447.93

(No Pictures Available)



Project: Bluffton
Pond Maintenance
Highway 170 Pond

Activity: Pond
Maintenance














Project #:
2019-321

Township/SW Dist:
Bluffton/4

Completed:
March 2019

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 = 100 feet

Prepared By: BC Stormwater Management Utility

Date Print: 12/09/19

File: C:\project summaries map\Bluffton Pond Maintenance -Highway 170 Pond_2019-321



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Woodbridge Subdivision - Parkside Drive

Activity: Routine/Preventive Maintenance

Duration: 09/11/19

Narrative Description of Project:

Project improved 480 L.F. of drainage system. Cleaned out 480 L.F. of roadside ditch. Hyrdoseeded for erosion control.

2019-570A / Woodbridge Subdivision	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
HAUL / Hauling	10.0	\$229.90	\$141.60	\$49.50	\$0.00	\$0.00	\$421.00
RSDCL / Roadside Ditch - Cleanout	30.0	\$619.80	\$102.81	\$831.56	\$0.00	\$386.70	\$1,940.87
2019-570A / Woodbridge Subdivision Sub Total	41.0	\$871.49	\$244.41	\$881.06	\$0.00	\$386.70	\$2,383.66
Grand Total	41.0	\$871.49	\$244.41	\$881.06	\$0.00	\$386.70	\$2,383.66

Before

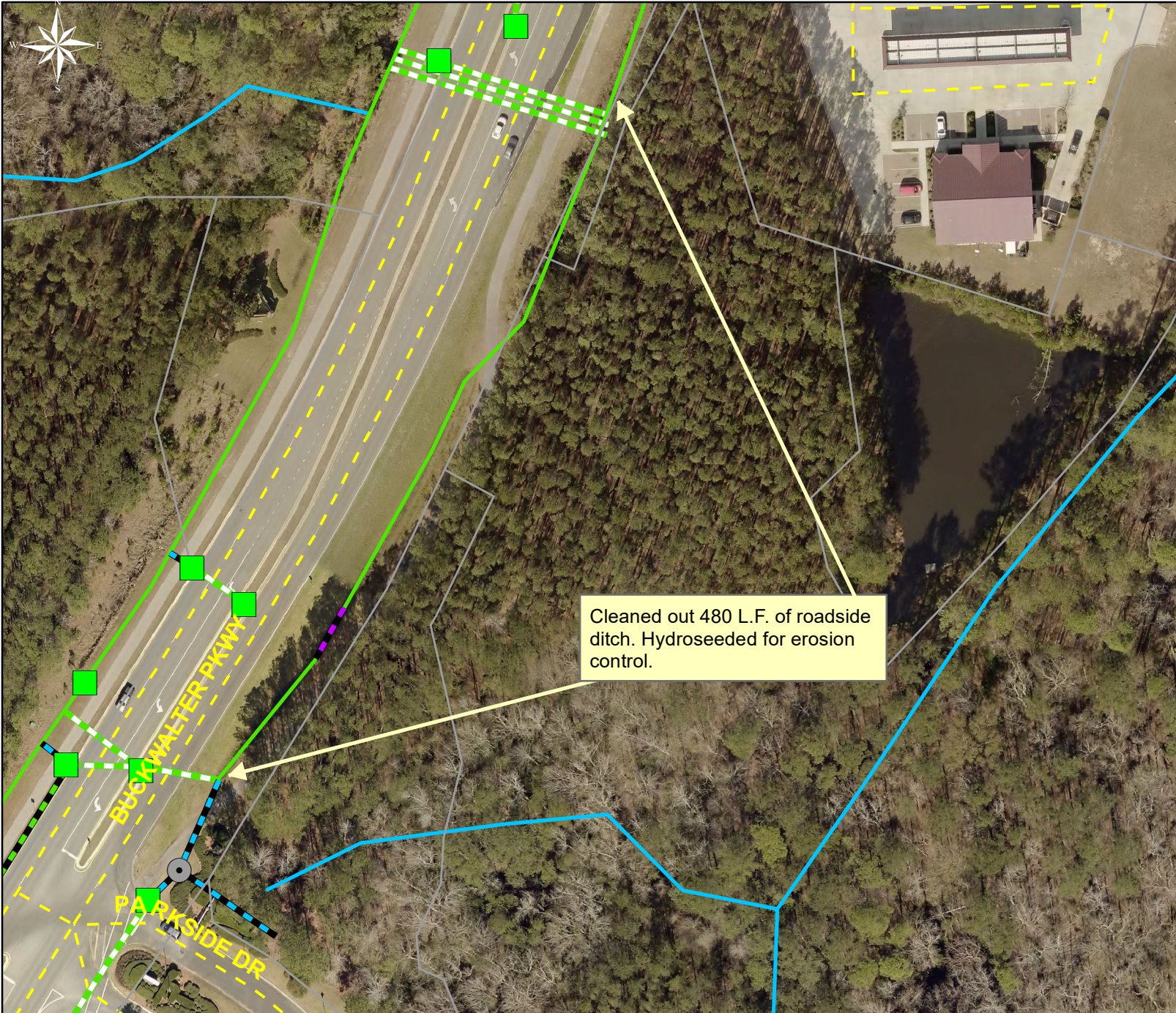
During

After

(No Picture Available)

(No Picture Available)





Project: Woodbridge Subdivision - Parkside Drive

Activity: Routine Preventive Maintenance














Project #: 2019-570A

Township/SW Dist: Bluffton/4

Completed: September 2019

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 = 98 feet

Prepared By: BC Stormwater Management Utility

Date Print: 011/20/19

File: C:\project summaries map\Woodbridge Subdivision-Parkside Drive_2019-570A



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Indian Trail

Activity: Routine/Preventive Maintenance

Duration: 10/09/19-10/22/19

Narrative Description of Project:

Project improved 60 L.F. of drainage system. Cleaned out 60 L.F. of channel. Jetted (1) driveway pipe.

2020-018 / Indian Trail	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	12.0	\$251.31	\$35.88	\$16.03	\$0.00	\$116.01	\$419.23
DPJT / Driveway Pipe - Jetted	6.0	\$133.68	\$114.96	\$35.77	\$0.00	\$86.04	\$370.45
HAUL / Hauling	3.0	\$68.97	\$42.48	\$16.03	\$0.00	\$0.00	\$127.48
UTLOC / Utility locates	0.5	\$10.90	\$0.00	\$0.00	\$0.00	\$0.00	\$10.90
2020-018 / Indian Trail Sub Total	22.5	\$486.65	\$193.32	\$67.83	\$0.00	\$202.05	\$949.85
Grand Total	22.5	\$486.65	\$193.32	\$67.83	\$0.00	\$202.05	\$949.85

(No Pictures Available)



Project: Indian Trail

Activity: Routine/
Preventive
Maintenance

Project #:
2020-018

Township/SW Dist:
Hilton Head Island/3

Completed:
October 2019

0 25 50 100 150 200
Feet

1 inch = 100 feet

Prepared By: BC Stormwater Management Utility

Date Print: 011/27/19

File: C:\project summaries map\Indian Trail_2020-018



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, February 12, 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 – January 8, 2020 ([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
 - A. Utility Update – Daniel Rybak ([backup](#))
 - B. Monitoring Update – Daniel Rybak ([backup](#))
 - C. Stormwater Implementation Committee Report – Daniel Rybak ([backup](#))
 - D. Stormwater Related Projects – Daniel Rybak ([backup](#))
 - E. Upcoming Professional Contracts Report – Daniel Rybak ([backup](#))
 - F. Regional Coordination – Daniel Rybak ([backup](#))
 - G. Municipal Reports – Daniel Rybak ([backup](#))
 - H. MS4 Update – Daniel Rybak ([backup](#))
 - I. Maintenance Projects Report – Matthew Rausch ([backup](#))
5. UNFINISHED BUSINESS
6. NEW BUSINESS
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
 - A. March 13, 2020 ([backup](#))
9. ADJOURNMENT