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

February 15, 2018

South Carolina Department of Health and Environmental Control
Bureau of Water, Water Pollution Compliance Section
Attn: Shakhlan Garane
2600 Bull Street
Columbia, SC 29201-1708

RE: Beaufort County South Carolina NPDES Permit #SCR030000 Small Municipal Separate Storm Sewer System (MS4) Annual Report for year 12/01/2016 to 12/01/2017.

Dear Ms. Shakhlan Garane,

Beaufort County is pleased to submit our annual report for General Permit SCR030000, the State of South Carolina NPDES General Permit for Storm Water Discharge from Regulated Small Municipal Separate Storm Sewer System (MS4). Please see attached one (1) original copy of the 12/01/2016 to 12/01/2017 annual report.

Please note that the County did not receive the 2018 reporting template until January 2018. In review of the template, it was determined that our data collection over the past year would not easily translate to the new template in a timely manner without extensive effort. In 2018, Beaufort County will be adjusting data collection procedures and will transition to the 2018 reporting template in the upcoming year.

Our annual report not only serves as permit compliance, but also a means for the County to benchmark our program internally, use as a "how-to guide" for staff, and published as part as our public education efforts. As a public education product, you will notice a significant change in our Stormwater Management Plan (SWMP) for MCM 1 and 2 as we streamline our data collection and reporting for Public Education and Outreach to reflect the partnership and delegation of milestones to Clemson University's Carolina Clear program and the Lowcountry Stormwater Partners.

If you have any questions, please contact me at (843) 255-2805 or elarson@bcgov.net.

Sincerely,

Eric W. Larson, PE, CPSWQ, AICP, CFM
Director of Environmental Engineering and Land Management

cc: Josh Gruber, Interim County Administrator
MS4 Coordinator
file

South Carolina NPDES Permit # SCR030000
Small Municipal Separate Storm Sewer System (SMS4)
Annual Report

Permit Coverage #SCR 030000 **Reporting Period:** 12/01/2016 to 12/01/2017

Permittee: Beaufort County

Program Name: Beaufort County MS4

Reporting for more than one Program: ☐
(Prepare copies of this page for each Program and attach to this report.)

Responsible Official Information
(Enter the information of the principal executive officer, mayor, or other duly authorized employee/elected official.)

Name: Joshua Gruber **Title:** Interim County Administrator

Telephone Number: 843-255-2026 **E-mail Address:** JGruber@bcgov.net

Mailing Address: 100 Ribaut Road Beaufort, SC 29902

Program Manager Information
(Enter the information of the person who is responsible for daily implementation of the program.)

Name: Eric Larson **Title:** Stormwater Manager

Telephone Number: 843-255-2805 **E-mail Address:** Elarson@bcgov.net

Mailing Address: 120 Shanklin Road, Beaufort SC 29902

Certification
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Responsible Official Signature: _____ **Date:** 2-15-18

(The responsible official may authorize another person or person occupying a specific position to certify this report if this authorization is made in writing and submitted to the Department. Please attach a copy of the authorization with this report, if applicable)

Submit the annual report to:
South Carolina Department of Health and Environmental Control
Bureau of Water, Water Pollution Compliance Section
2600 Bull Street
Columbia, SC 29201-1708

Questions? Contact (803) 898-4300

I. Special Conditions Applicable to Stormwater Discharges to Sensitive Waters

A. General (3.1)

1. Has an assessment been conducted to determine if the MS4 discharges to sensitive waters as described in the Permit Part 3? X Yes ☐ No *(what is the target date of completion of the assessment?)*_____

_____

2. Does the SWMP specifically address these sensitive waters through BMP, system design, etc.? X Yes ☐ No

3. Does the MS4 discharge to waters classified as Outstanding Resource, Trout, or Shellfish Harvesting? If so, list the waters (3.5): ☐ No X Yes May River, Colleton (Okatie) River, New River, Whale Branch West, Coosaw River, Beaufort River, Morgan River, Broad River, Calibogue Sound, and Coastal waters of St. Helena Island.

B. TMDL Monitoring and Assessment Plan (3.2)

1. Does the MS4 discharge to receiving waters within a TMDL watershed? If yes, list the water body and the pollutant(s) of concern. ☐ No X Yes (Watershed) – Okatie River (Use) Shell Fish – (Cause) Fecal Coliform; (Watershed) – Beaufort River (Use) Aquatic Life – (Cause) Dissolved Oxygen; (Watershed) – Chechessee Creek River (Use) Shell Fish – (Cause) Fecal Coliform

2. Which of the TMDL pollutant(s) of concern listed above have the potential to occur within the MS4? Fecal Coliform, Dissolved Oxygen

3. Report the current stage of development of a monitoring and assessment plan. Mark one or more that most accurately reflects the current status of the program as a whole:
☐ Not started X Research/Development X Implementation

4. Has the plan been submitted to the Department?
X Yes ☐ No, target date for submission: A Dec. 1, 2018 update will include the additional TMDLs added as a result of "permit by rule" change in 2017.

5. Has monitoring been conducted for the pollutant(s) of concern in the past reporting year?
X Yes (SEE ATTACHED EXHIBIT A) ☐ No, target date to begin monitoring: _____

6. Are there any updates to the plan for this reporting year?
☐ No X Yes

MCM6 has been modified to combine BMPs A and D and to clarify the intent of those activities in a new BMP A.

7. Provide a brief description of the progress made on the plan in this reporting year and evaluate its effectiveness. The County began sampling based on the Stormwater Master plan recommendations in 2015. Attached are the results of the monitoring (EXHIBIT A). Monitoring at these locations will continue through 2018 at which time the County will analyze the results and determine if there is a possible connection to local land use and the pollutant of concern. At that time a decision will be made with regard to monitoring point locations per the Stormwater Management Plan recommendations. If the source of the pollutant of concern is identified, the County will take appropriate action. The change in the jurisdictional boundary from UA to countywide in 2017 has resulted in a need to update the SWMP and Monitoring Plan in Permit year 3. In

addition, a new capital improvement project is scheduled to begin in 2018 which will redirect stormwater flow from the Okatie River into a water quality pond to assist in meeting the County's requirement to reduce fecal coliform concentrations by 51%. Also, a standard nutrient plan for all Equestrian centers is being added to the BMP manual to provide a standard for spreading and disposing of manure to eliminate a potential IDDE to discharge off site. In 2017 the County performed facility inspections on the Oldfield Equestrian Center and is providing additional education and courtesy inspections to assist in training staff on the correct way to dispose of manure.

C. Discharges to Impaired Water Bodies (3.4)

1. Does the MS4 discharge to receiving waters on the 303(d) list of impaired waters? If yes, list the water body and the pollutant(s) of concern. ☐ No X Yes

BASIN	HUC_12	DESCRIPTION	STATION	USE	CAUSE(S)
SALKEHATCHIE	030502070704	COMBAHEE RVR AT US 17 10 MI ESE YEMASSEE	CSTL-098	AL	DO
SALKEHATCHIE	030502070704	COMBAHEE RVR AT US 17 10 MI ESE YEMASSEE	CSTL-098	FISH	HG
SALKEHATCHIE	030502071101	COOSAW RVR NEAR MOUTH OF BULL RVR	RO-02005	AL	CU, TURBIDITY
SALKEHATCHIE	030502071101	BULL RIVER WHERE WILLIMAN CREEK AND WIMBEE CREEK MEET WITH THE BULL RIVER BETWEEN CHISOLM AND BUZZARD ISLANDS CLOSE TO THE CHISOLM ISLAND SIDE OF BULL RIVER.	RO-09367	AL	TURBIDITY
SALKEHATCHIE	030502071101	TRIBUTARY TO BULL RIVER, 7.5 M NE OF BEAUFORT	RT-01643	AL	TURBIDITY
SALKEHATCHIE	030502071101	WIMBEE CK 0.7 MI SE OF MOUTH OF S WIMBEE CK	RO-036037	AL	TURBIDITY
SALKEHATCHIE	030502071102	TIDAL CK NEAR CONFL OF COOSAW AND BULL RVRS CHISOLM ISL	RT-02015	AL	CU, TURBIDITY
SALKEHATCHIE	030502071102	CAMPBELL CREEK AT WHALE BRANCH	14-02	SHELLFISH	FC
SALKEHATCHIE	030502071102	FIRST SPLIT ON HALFMOON CREEK ON SOUTHERN SIDE OF BROWNS ISLAND	14-13A	SHELLFISH	FC
SALKEHATCHIE	030502071102	MCCALLEYS CREEK 2.4 MILES UPSTREAM OF SHELLFISH SITE 15-33	RT-11015	AL	TURBIDITY
SALKEHATCHIE	030502071103	TRIB TO SPARROW NEST CK NEAR DATHA ISLAND	RT-02027	AL	CU
SALKEHATCHIE	030502071103	COFFIN CREEK MOUTH AT MORGAN RIVER	16A-27	SHELLFISH	FC
SALKEHATCHIE	030502071103	COFFIN CREEK, HEADWATERS AT SHRIMP DOCKS	16A-28	SHELLFISH	FC
SALKEHATCHIE	030502071103	EDDING CR AT SMALL TRIBUTARY BETWEEN STATIONS 9 AND 18	16A-23	SHELLFISH	FC
SALKEHATCHIE	030502071103	EDDING CREEK AT SHRIMP DOCK	16A-18	SHELLFISH	FC
SALKEHATCHIE	030502071103	JENKINS CREEK, 500FT. NORTH OF STORMWATER AT DAWTAW ISLAND GOLF COURSE,	16A-30	SHELLFISH	FC
SALKEHATCHIE	030502071103	PINE ISLAND CREEK NEAR CONFL VILLAGE CREEK	16A-38	SHELLFISH	FC
SALKEHATCHIE	030502071103	ROCK SPRINGS CREEK,UPPER REACHES	16A-19	SHELLFISH	FC
SALKEHATCHIE	030502071103	COFFIN CK 0.7 MI SE OF CONFL W/ MORGAN RVR	RT-032033	AL	TURBIDITY
SALKEHATCHIE	030502071104	COOSAW RIVER, MIDCHANNEL BETWEEN BULL RIVER AND COMBAHEE RIVER, 1 MILE EAST OF SHELLFISH SITE 14-04	RO-11314	AL	TURBIDITY
SALKEHATCHIE	030502071104	COOSAW RVR NEAR MOUTH OF COMBAHEE RVR	RO-02001	AL	TURBIDITY
SALKEHATCHIE	030502071104	PARROT CREEK AND COOSAW RIVER MARKER #1 SHELLFISH 14-10	MD-281	AL	TURBIDITY
SALKEHATCHIE	030502071104	SAINT HELENA SOUND, 7 M SW OF EDISTO BEACH	RO-01163	AL	TURBIDITY

SALKEHATCHIE	030502071104	ST. HELENA SOUND BELOW THE CONFLUENCE OF THE MORGAN RIVER AND THE COOSAW RIVER BETWEEN THE TIPS OF ST. HELENA ISLAND AND OTTER ISLAND.	RO-09371	AL	TURBIDITY
SALKEHATCHIE	030502080501	BATTERY CREEK - DOWLINGWOOD TRIBUTARY (C6-97)	15-25	SHELLFISH	FC
SALKEHATCHIE	030502080601	POCOTALIGO RVR AT US 17 AT POCOTALIGO	MD-007	REC	ENTERO
SALKEHATCHIE	030502080601	POCOTALIGO RVR AT US 17 AT POCOTALIGO	MD-007	AL	TURBIDITY
SALKEHATCHIE	030502080602	HUSPAH CREEK AT BULL POINT - WHALE BRANCH POG	14-18	SHELLFISH	FC
SALKEHATCHIE	030502080602	HUSPAH CREEK AT RAILROAD TRESTLE	14-14	SHELLFISH	FC
SALKEHATCHIE	030502080605	HABERSHAM CREEK ABOVE STATION #16, FIRST SPLIT	17-16A	SHELLFISH	FC
SALKEHATCHIE	030502080606	COLLETON RIVER AT MOUTH OF CALLAWASSIE CREEK, 4.5 M N OF BLUFFTON	RO-01125	AL	DO
SALKEHATCHIE	030502080607	CHECHESSEE RVR 1.4 MI SE CONFL W/ COLLETON RVR	RO-036032	AL	DO
SALKEHATCHIE	030502080607	CHECHESEE RIVER, 6.5 M WEST OF PORT ROYAL	RO-01146	AL	DO
SALKEHATCHIE	030502100101	JOHNSON CK WEST OF HARBOR ISLAND 1.75MI SW OF WEST END OF US 21 BRIDGE OVER JOHNSON CK	RT-10115	AL	TURBIDITY
SAVANNAH	030601100202	NEW RIVER 3.4 MI SSE OF SC 170 BRIDGE OVER NEW RIVER	RT-06021	REC	ENTERO
SAVANNAH	030601100301	BEND IN MAY RIVER NEAREST HIGH BLUFF OF PALMETTO BLUFF	19-19B	SHELLFISH	FC
SAVANNAH	030601100301	FIRST UNNAMED TRIBUTARY LEADING FROM GASCIOGNE BLUFF	19-19C	SHELLFISH	FC
SAVANNAH	030601100301	MAY RIVER AT FIRST DOCK IN HEADWATERS PAST BLUFF	19-19	SHELLFISH	FC
SAVANNAH	030601100301	UNNAMED TRIBUTARY NEAR SW CORNER OF CASCIOGNE BLUFF	19-19A	SHELLFISH	FC
SAVANNAH	030601100304	HILTON HEAD ISLAND LANDSEND DRIVE	LC-111	REC	ENTERO
SALKEHATCHIE	O30502080608	PORT ROYAL SOUND 1.8 MI SW OF TIP OF PARRIS ISLAND	RO-036034	AL	CU

2. Which of the 303(d) pollutant(s) of concern listed above have the potential to occur within the MS4? Fecal Coliform, Enterococcus, Mercury, Turbidity, Dissolved Oxygen, Copper

II. Storm Water Management Program

A. Ordinance Information (4.1)

(Insert your website address if the ordinance is posted online. If your ordinance is not posted online, please submit a hard copy with this report.)

Website:http://www.co.beaufort.sc.us/departments/Engineering-and-Infrastructure/stormwater-management/documents/Manuals--Plans-page/Beaufort%20County%20BMP%20Manual%20Updated%2012.01.16.pdf **Hard copy attached:** ☐

B. Storm Water Management Plan (SWMP) (4.1, 4.5)

(Answer the questions below about the SWMP for the current reporting year.)

1. Have there been any changes to the area covered by the MS4? If yes, is this reflected by updates to the SWMP?

☐ No X Yes *(explain)*: On June 26, 2017, Beaufort County Council took action by resolution to authorize administration to submit a request to amend our Municipal Separate Storm Sewer System (MS4) permit to reflect the County's desire to be regulated as "permit by rule", also referred to as "countywide" which includes unincorporated areas (excluding the incorporated), (SEE ATTACHED EXHIBIT B).

2. Are there any proposed changes to the goals or BMP (best management practices) in the SWMP?
☐ No X Yes *(explain)*: Due to extending the MS4 Boundary area the County has increased monitoring for areas throughout the entire MS4 area. In addition, MCM6 has been modified to clarify and combine the original BMPs A and D into one BMP.

3. Do you have adequate resources to implement your SWMP?
X Yes ☐ No *(explain)*: While the stormwater program has an adequate number of positions to implement the SWMP, staff turnover has impacted implementation timelines.

4. Provide information below about staffing levels for each Minimum Control Measure (MCM). This information should be presented as the amount of individuals performing duties directly related to each MCM and the estimated percentage of their time spent doing so. If you share responsibility for the MCM with another entity, indicate that in the corresponding spaces. All of the municipalities located within the County share the responsibility of inspections, sampling and the Beaufort County Connect app which is used to track complaints.

- MCM 1: (2) 1 at 30% and 1 at 10% - Clemson University Carolina Clear
  (5) 1 at 25% and 4 at 10% - Beaufort County Staff
- MCM 2: (2) 1 at 30% and 1 at 10% - Clemson University Carolina Clear
  (5) 1 at 25% and 4 at 10% - Beaufort County Staff
- MCM 3: (4) 1 at 25% and 3 at 10% - Beaufort County Staff
  (1) 1 at 5% - Bluffton Stormwater Staff
- MCM 4: (4) 1 at 25% and 3 at 10% - Beaufort County Staff
  (1) 1 at 5% - Bluffton Stormwater Staff
- MCM 5: (10) 10 at 5% - Beaufort County Staff
  (1) 1 at 5% - Bluffton Stormwater Staff
- MCM 6: (6) 1 at 25% and 5 at 10% - Beaufort County Staff

5. Has training been provided to staff as required by the permit in the last reporting year?
X Yes *(fill in the table below)* ☐ No *(explain, and provide implementation dates)*:

Date	Topics Covered
01/31/17	Illicit Discharge, Construction site management, dry weather, sediment removal, site restoration (55).
01/19/17	Illicit Discharge Detection and Elimination.
02/06/17	Intro to Hazardous Waste Generation and Handling
03/02/17	SCASM Stormwater Best Management Practices and Water Quality

03/31/17	SESWA Emerging Trends in Stormwater BMP's
04/27/17	International Erosion Control Association " Long Term Maintenance Operation Success"
06/08/17	SCASM Stormwater Enforcement Process. SCASM
07/20/17	SESWA Good Housekeeping Measures
09/7/17	SESWA Clean Water Act
10/19/17	Stormwater Pond Management

III. Minimum Control Measures (MCM)

A. Sharing Responsibility (4.4)

1. Is responsibility shared for any minimum measures through an agreement with another entity?
☐ No X Yes (*name the entity in the chart below)*

MCM 1	Clemson University Carolina Clear
MCM 2	Clemson University Carolina Clear
MCM 3	Town of Bluffton
MCM 4	Town of Bluffton
MCM 5	Town of Bluffton
MCM 6	USC Beaufort (sample collection and analysis)

If you have indicated that you are sharing responsibility above in any MCM, answer the questions below:

2. Have you submitted notice to the Department that you are relying on another entity?
☐ Yes X No *(submit a copy of any agreements that have not previously been sent to the Department)* (SEE ATTACHED EXHIBIT C & K for agreements with Town of Bluffton and USC Beaufort.)

3. If applicable, provide the date of submission of the agreement(s) to the Department: Clemson Agreement was submitted Dec. 1, 2016 with the Year 1 annual report.

4. Are all control measures as stringent as the permit requires?
X Yes ☐No *(if no, provide an explanation)*_____

5. Did the other entity agree in writing to implement the measure on your behalf?
X Yes ☐No *(if no, provide an explanation)*_____

6. Did the other entity implement the measure and agree to report on your behalf?
X Yes ☐No *(if no, provide an explanation)* Clemson report and Bluffton data incorporated into this report.

7. Is the agreement maintained as part of the SWMP?
X Yes ☐No *(if no, provide an explanation)*_____

8. Have you dissolved any agreements with entities this reporting year?

X No ☐Yes *(if yes, who?)*

III. Minimum Control Measures (MCM)

B. Minimum Control Measure 1: Public Education and Outreach on Storm Water Impacts (4.2.1, 5.3)

1. Use the table below to summarize outreach strategies, goals, and progress for the current reporting year. In the "activities conducted and planned" section, focus on activities that were conducted in the last reporting year and those that are planned for the upcoming reporting year, providing implementation dates. Add rows where needed and attach additional sheets if necessary.

SEE ATTACHED CLEMSON REPORT IN EXHIBIT D

C. Control Measure Evaluation (5.3)

1. Evaluate the success of this MCM. Refer to goals implemented and achieved, and adherence to the implementation schedule: SEE ATTACHED CLEMSON REPORT IN EXHIBIT D

2. Provide an evaluation of where the program needs improvement and explain any actions that will be taken to achieve objectives: SEE ATTACHED CLEMSON REPORT IN EXHIBIT D. The SWMP MCM 1 BMP Measurable Goals and Implementation Milestones for Years 3 through 5 have been updated to more closely align with the outreach strategies of the Lowcountry Stormwater Partners 2016-2018 Strategic Stormwater Outreach Plan.

III. Minimum Control Measures (MCM)

D. Minimum Control Measure 2: Public Involvement/Participation (4.2.2, 5.3)

1. How can the public find information about the SWMP? The SWMP is published on the County's website, www.bcgov.net, and located within Appendix G of the County's BMP Manual.

2. Use the table below to summarize public involvement opportunities, goals, and progress for the current reporting year. In the "activities conducted and planned" section, focus on activities that were conducted in the last reporting year and those that are planned for the upcoming reporting year, providing implementation dates. Add rows where needed and attach additional sheets if necessary.

SEE ATTACHED CLEMSON REPORT IN EXHIBIT D

E. Control Measure Evaluation (5.3)

1. Evaluate the success of this MCM. Refer to goals implemented and achieved, and adherence to the implementation schedule: SEE ATTACHED CLEMSON REPORT IN EXHIBIT D

2. Provide an evaluation of where the program needs improvement and explain any actions that will be taken to achieve objectives: SEE ATTACHED CLEMSON REPORT IN EXHIBIT D. The SWMP MCM 2 BMP Measurable Goals and Implementation Milestones for Years 3 through 5 have been updated to more closely

align with the outreach strategies of the Lowcountry Stormwater Partners 2016-2018 Strategic Stormwater Outreach Plan.

III. Minimum Control Measures (MCM)

F. Minimum Control Measure 3: Illicit Discharge Detection and Elimination (IDDE) (4.2.3, 5.3)

1. How can the public notify the MS4 of suspected illicit discharges? They can contact the Beaufort County Stormwater Utility to file a complaint or inquiry about a stormwater related issue. Complaints can also be filed through the existing links on the Beaufort County Website. Effective 12/1/2016 the General Public, municipalities and in house staff can submit a complaint through a new app. (Beaufort County Connect) that was created to assist in reporting non-stormwater discharges. The app. will allow the complaints to be identified by type of discharge such as: automobile fluids, chemicals, construction site runoff, restaurant grease trap, SSO, yard clippings etc. The County disburses the complaint to the appointed staff members to investigate complaint. A summary of complaints received through the Connect app. is found in EXHIBIT I.

2. Complete the list below for the last reporting year:

- Total number of suspected illicit discharges: SEE ATTACHED EXHIBIT E **
- Total number of illicit discharges found: SEE ATTACHED EXHIBIT E **
- Number of illicit discharges with enforcement escalation (action taken beyond written warning): SEE ATTACHED EXHIBIT E **Current permitting software reporting functions are limited and do not allow differentiating between types of Stormwater enforcement. The chart in Exhibit E has summary information for all Stormwater enforcement actions. This is an issue the County plans to resolve with the implementation of a new software package in Year 3.
- Total number of illicit discharges eliminated: SEE ATTACHED EXHIBIT E **

** Based on the County's permit we have developed a data base to track new Stormwater permits which will assist in inspection of construction sites effective 12/1/2017. Exhibit E contains a summary of illicit discharge activity.

3. Use the table below to summarize priority areas (and associated rationale for selection) for screening. If these areas have changed since the last reporting year, provide a brief explanation. Add rows where needed and attach additional sheets if necessary.

Priority Areas	**Rationale for Selection**	**Changed within last reporting year?** *(If so, provide an explanation.)*
Construction Sites	The County has prioritized construction sites due to the increase in development.	The survey results determined that this construction site management could be the cause of sediment runoff.
TMDL and Impaired Water Body	The County has prioritized the illicit discharge screening schedule based on the last year's monitoring results, septic tank locations, current land use and the most recent survey results.	The County has developed a wet and dry weather screening program and standard operating procedures in Year 1. During the first quarter of 2017, staff defined the sampling locations to complement the monitoring plan

		found in the BMP Manual. SEE ATTACHED EXHIBIT F.

4. Use the table below to summarize IDDE action items, goals, and progress for the current reporting year. In the "activities conducted and planned" section, focus on activities that were conducted in the last reporting year and those that are planned for the upcoming reporting year, providing implementation dates. Add rows where needed and attach additional sheets if necessary.

IDDE Action Item	**Measurable Goal(s)**	**Progress on Goal(s)**	**Activities Conducted and Planned** *(specific implementation dates)*
Adequate Legal Authority	Develop an Ordinance, establish authority	☐ In Planning ☐ Ongoing X Completed ☐ Evaluation	For Year 3, continue implementation.
Outfall Inventory Map Collection	Map outfalls for screening and inspection.	☐ In Planning X Ongoing ☐ Completed ☐ Evaluation	By Milestone Year 2, 50% of all County owned outfalls were to be inspected. During 2017, post-Hurricane Matthew we visually inspected 100% of the system, but did not map. By 12/01/18 the County will have 75% of all outfalls inventoried and mapped.
Outfall Screening for Illicit Discharge	Develop a citizen reporting tool. Conduct dry weather screening of outfalls.	☐ In Planning X Ongoing ☐ Completed ☐ Evaluation	The BC Connect app was designed to allow residents to communicate with the County regarding IDDE and complaints. The app. is live with 300 Active members, and we anticipate a media outreach to increase members to 1000.
Prioritize Other potential Illicit discharges and non-stormwater discharges	Prioritize screening based on complaints, monitoring results, land use, and survey results.	☐ In Planning X Ongoing ☐ Completed ☐ Evaluation	In Year 3, we will revisit the "hot spot" list based on history of complaints and recent monitoring results to determine if priority areas need to be adjusted.
Education on IDDE	Educate the Public on IDDE	☐ In Planning X Ongoing ☐ Completed ☐ Evaluation	Carolina Clear will continue to provide this MCM. SEE ATTACHED EXHIBIT D.
Enforcement	Establish authority to inspect and enforce	☐ In Planning X Ongoing ☐ Completed ☐ Evaluation	The IDDE ordinance has been adopted and enforcement continues. In Year 2 we began using MUNIS to track IDDE activities. In Year 3, we will be switching to another software with expanded capabilities.
Monitoring Plan	Establish a program to track and sample POCs	☐ In Planning X Ongoing ☐ Completed ☐ Evaluation	The County is ahead of schedule on implementation of the plan. Trend analysis was performed on Okatie River watershed and presented to the elected officials and public. SEE ATTACHED EXHIBIT G. In Year 3, we will be expanding the monitoring plan due to expanding the permitted area (Permit by Rule) in 2017.

Staff Training	Train applicable staff on IDDE	☐ In Planning X Ongoing ☐ Completed ☐ Evaluation	During MCM evaluation, the need to report and document public and staff training separately was identified. A BMP to focus education on staff for the IDDE program was added for Year 3. However, in Year 2, applicable staff was trained using training opportunities through SESWA. Training will continue annually.
Asset Mapping	Map the storm sewer system and assess condition	☐ In Planning X Ongoing ☐ Completed ☐ Evaluation	Upon evaluation of program needs, it was determined that storm sewer system inventory and inspection should be documented in MCM3 rather than MCM 6. Staff continues to map the system. We are approx. 50% complete.

G. Control Measure Evaluation (5.3)

1. Evaluate the success of this MCM. Refer to goals implemented and achieved, and adherence to the implementation schedule: All goals were obtained by implementing an IDDE violation data base and obtaining authority to enforcement all non-stormwater discharges. We are active in response to complaints. We have established MOA with other MS4s for monitoring and written understandings with local DHEC staff on responses to failing septic tanks.

2. Provide an evaluation of where the program needs improvement and explain any actions that will be taken to achieve objectives: Overall the IDDE program was a success. Training of in-house staff is required for all staff for the IDDE program. The new Beaufort County Connect App to help track IDDEs has been a success. Residents are now using this app to report IDDE, litter, flooding and maintenance requests. We can improve on advertising the app to improve on number of members. The BC Connect App is also helping guide IDDE activities by clearly identifying areas with a higher than normal density of complaints. Expanding our jurisdiction to Permit by Rule will require updating our monitoring plan.

III. Minimum Control Measures (MCM)

H. Minimum Control Measure 4: Construction Site Storm Water Runoff Control (4.2.4, 5.3)

1. How can the public notify the MS4 of possible noncompliance at construction sites? The public can contact the Beaufort County Stormwater Utility to file a complaint or inquiry about a construction site runoff. Complaints can also be filed through the existing links on the Beaufort County Website. Effective 12/1/2016 the General Public, municipalities and in house staff can submit a complaint through a new app. that was created to assist in reporting non-stormwater discharges. A summary of complaints received through the Connect app. is found in EXHIBIT I.

2. How does the MS4 communicate with construction operators to ensure understanding of requirements and improvements that may be needed? A pre-construction meeting is held for all new construction and BMP's are inspected every 30 days at a minimum.

3. Has an enforcement response plan (ERP) been developed and utilized?
X Yes ☐ No (*explain):*_____

4. Complete the list below for the last reporting year:

- Number of new construction sites: SEE ATTACHED EXHIBIT E **
- Total number of active construction sites: SEE ATTACHED EXHIBIT E **
- Total number of inspections performed: SEE ATTACHED EXHIBIT E **
- Number of sites with unsatisfactory/noncompliant inspection results: SEE ATTACHED EXHIBIT E **
- Number of sites with enforcement escalation (action taken beyond written warning): SEE ATTACHED EXHIBIT E **. Current permitting software reporting functions are limited and do not allow differentiating between types of Stormwater enforcement. The chart in Exhibit E has summary information for all Stormwater enforcement actions. This is an issue the County plans to resolve with the implementation of a new software package in Year 3.
- Number of sites inspected past the deadline specified in the permit: SEE ATTACHED EXHIBIT E **

** Based on the County's permit we have developed a data base to track new Stormwater permits which will assist in inspection of construction sites effective 12/1/2017. Exhibit E contains a summary of plans reviewed and construction site inspections completed.

5. Use the table below to summarize construction site action items, goals, and progress for the current reporting year. In the "activities conducted and planned" section, focus on activities that were conducted in the last reporting year and those that are planned for the upcoming reporting year, providing implementation dates. Add rows where needed and attach additional sheets if necessary.

Construction Site Action Item	**Measurable Goal(s)**	**Progress on Goal(s)**	**Activities Conducted and Planned** *(specific implementation dates)*
Plan Review and Permitting	The BC BMP Manual contains plan review and permitting requirements and is reviewed and updated annually to assist applicants in the permitting process.	☐ In Planning X Ongoing ☐ Completed ☐ Evaluation	The plan review process requires applicants to provide BMP's on all construction plans and provide drainage calculations to ensure sediment is controlled on site.
Stormwater Permit	Educate the community regarding when a SW permit is required for all land disturbance greater than 5000 square feet.	☐ In Planning ☐ Ongoing X Completed ☐ Evaluation	Issue press release to notify all applicants of new permit procedures. BMP Manual content needs to be updated to reflect DHEC permitting requirements as well to clarify the need for local permits when the 5,000 sq. ft. isn't the only permitting threshold.
Enforcement	Continue to educate the contractors and public regarding construction site permitting and enforcement.	☐ In Planning X Ongoing ☐ Completed ☐ Evaluation	Increase inspection and training for contractors. In Year 3, we will be switching to another software with expanded capabilities.

I. Control Measure Evaluation (5.3)

1. Evaluate the success of this MCM. Refer to goals implemented and achieved, and adherence to the implementation schedule: All goals were achieved prior to projected year and are currently being implemented through the ordinance and new BMP manual. Additionally, Preconstruction meetings are held to ensure that initial BMPs are installed prior to grading. A new certificate of completion check list was created to ensure all pipes, ditches, and ponds are built per design and free of debris and sediment.

2. Provide an evaluation of where the program needs improvement and explain any actions that will be taken to achieve objectives: The Construction Inspection program was a success in tracking projects via the Stormwater permit data base. Site Plan review has required a more detailed check list to ensure all aspects of the SWPPP are addressed. The County will be changing to a new data base to track plan review, inspections and enforcement which will link to the close out of permits.

III. Minimum Control Measures (MCM)

J. Minimum Control Measure 5: Post-Construction Storm Water Management (4.2.5, 5.3)

1. Complete the list below for the last reporting year:
   - Number of newly completed construction sites: SEE ATTACHED EXHIBIT E **
   - Number of inspections performed within 30 days of construction completion: SEE ATTACHED EXHIBIT E **
   - Total number of inspections performed: SEE ATTACHED EXHIBIT E **
   - Number of sites with unsatisfactory/noncompliant inspection results: SEE ATTACHED EXHIBIT E **
   - Number of sites with enforcement escalation (action taken beyond written warning): SEE ATTACHED EXHIBIT E **. Current permitting software reporting functions are limited and do not allow differentiating between types of Stormwater enforcement. The chart in Exhibit E has summary information for all Stormwater enforcement actions. This is an issue the County plans to resolve with the implementation of a new software package in Year 3.

** Based on the County's permit requirements we have developed a data base to track new Stormwater permits which will assist in inspection of post construction sites effective 12/1/2017.

2. Use the table below to summarize post-construction action items, goals, and progress for the current reporting year. In the "activities conducted and planned" section, focus on activities that were conducted in the last reporting year and those that are planned for the upcoming reporting year, providing implementation dates. Add rows where needed and attach additional sheets if necessary.

Post-Construction Action Item	**Measurable Goal(s)**	**Progress on Goal(s)**	**Activities Conducted and Planned** *(specific implementation dates)*
Ordinance	Develop an ordinance, or other regulatory mechanism, adequate legal authorities to meet the objectives of the Post-Construction Site Runoff Controls program.	☐ In Planning ☐ Ongoing X Completed ☐ Evaluation	Ordinance is reviewed on an annual basis and modified when necessary to ensure that all site design review and approval, inspection, and monitoring are implemented and maintained.
Maintenance Agreement	To ensure that all stormwater control measures meet the County's performance	☐ In Planning ☐ Ongoing X Completed	The County has begun recording maintenance easements. Easements are also connected to the inspection data base to allow better tracking of annual

	standards and are being maintained pursuant to the maintenance agreement.	☐ Evaluation	inspections.
Enforcement	The County has authority to enter private property for the purpose of inspecting at reasonable times any facilities, equipment, practices, or operations related to stormwater discharges to determine whether there is compliance the Post-Construction Stormwater Management Program. Also, the County has an agreement with the Town of Bluffton to allow each municipality to access each other's jurisdiction.	☐ In Planning X Ongoing ☐ Completed ☐ Evaluation	The County tracks all enforcement through the inspection database, which allows reports to be created and violations issued. The data base also has the ability to schedule re-inspection to ensure compliance. In Year 3, we will be switching to another software with expanded capabilities.
Reporting and Inspection	A Stormwater Permitting database and inspection program was developed to provide structural stormwater controls to be installed pursuant to the County's post-construction program.	☐ In Planning X Ongoing ☐ Completed ☐ Evaluation	The County tracks inspection reports, monitoring results, and other information deemed necessary to evaluate compliance with the Post-Construction Stormwater Management Program.

K. Control Measure Evaluation (5.3)

1. Evaluate the success of this MCM. Refer to goals implemented and achieved, and adherence to the implementation schedule: All goals were achieved and implemented ahead of projected time line.

2. Provide an evaluation of where the program needs improvement and explain any actions that will be taken to achieve objectives: The County will continue to improve the data base and continue educating BMP owners during the annual inspection.

III. Minimum Control Measures (MCM)

L. Minimum Control Measure 6: Pollution Prevention/Good Housekeeping for Municipal Operations (4.2.6, 5.3)

1. Has a comprehensive assessment of the pollutant discharge potential for all municipally owned facilities been conducted? If not, indicate a status and planned completion date in the chart below.

X Yes ☐ No ☐ In Progress *(explain):* All County owned facilities were reviewed for notable potential for pollution. Those deemed to not have such potential will be removed from consideration in the future. SEE ATTACHED EXHIBIT H

2. Have yearly comprehensive inspections been conducted at high priority facilities? If not, indicate a status and planned completion date in the chart below.
☐Yes ☐ No X In Progress *(explain):* A desktop audit / evaluation of all facilities was completed by 12/1/2017. Follow up inspections will occur in Year 3.

3. Has training been conducted for employees? If not, indicate a status and planned completion date in the chart below.
X Yes ☐ No ☐ In Progress *(explain):* All staff have been trained using a SESWA webinar on IDDE and Good Housekeeping. Two staff members obtained the Hazardous Waste Generation and Handling certification.

4. Use the table below to summarize municipal facility pollution prevention action items, goals, and progress for the current reporting year. In the "activities conducted and planned" section, focus on activities that were conducted in the last reporting year and those that are planned for the upcoming reporting year, providing implementation dates. Ensure that the maintenance and inspection of MS4 catch basins and structural storm water controls are addressed in the chart. Add rows where needed and attach additional sheets if necessary.

Pollution Prevention Action Item	**Measurable Goal(s)**	**Progress on Goal(s)**	**Activities Conducted and Planned** *(specific implementation dates)*
SPPC Plans	Develop Spill Prevention plans for County Facilities	☐ In Planning ☐ Ongoing ☐ Completed X Evaluation	SPCC is a specific EPA program not entirely related to Stormwater and MS4. It was determined this BMP should be removed and replaced with a revised BMP A below.
Facilities SWPPP Development	Identify priority facilities and develop SWPPPs, SOPs, etc.	☐ In Planning X Ongoing ☐ Completed ☐ Evaluation	All High Priority facilities were prioritized based on chemicals stored and potential hazardous materials. Audit / Evaluation of facilities was completed and follow up inspections will be completed by 12/1/2018. SEE ATTACHED EXHIBIT H
Training	Provide training program for grounds maintenance, landscaping crews, and roadway and drainage staff.	☐ In Planning X Ongoing ☐ Completed ☐ Evaluation	Continue to train staff for grounds maintenance, landscaping crews, and roadway and drainage staff.
Parking Lot and Street Cleaning	Inventory and prioritize roads for cleaning.	☐ In Planning X Ongoing ☐ Completed ☐ Evaluation	Due to the increase in development in certain areas of the County the road inventory prioritization has not changed and the County will continue to maintain on an as needed basis. The County has used a contract sweeper. SEE ATTACHED EXHIBIT J. In the remainder of FY 18, the County will consider purchasing a sweeper and hiring an operator in efforts to expand the program.
Asset Management	Asset management of facilities and high priority areas	☐ In Planning ☐ Ongoing ☐ Completed X Evaluation	Upon evaluation of program needs, it was determined that storm sewer system inventory and inspection should be documented in MCM3. Further, facility inventory should be linked with priority assessment and SWPPP development; Facilities were added to a revised BMP A above.

M. Control Measure Evaluation (5.3)

1. Evaluate the success of this MCM. Refer to goals implemented and achieved, and adherence to the implementation schedule: Training was well received. Additional training will be designed particularly for the potential pollutants of each facility. Additional monitoring at several of the facilities needs to be completed to ensure that there are no IDDE off site. Expanding our street sweeping practices will decrease debris and pollutant loading into our system.

2. Provide an evaluation of where the program needs improvement and explain any actions that will be taken to achieve objectives: Facility operators need to have more of a hands on approach to training for their particular facility. Training of those staff members is a priority. Several County facilities will require extensive upgrades to reach compliance. The County will be performing inspections and monitoring, as needed, to ensure compliance. This should be completed by 12/1/2018.

STORMWATER MANAGEMENT PLAN (SWMP)

Prepared in accordance with SCDHEC Permit (SCR030000)

December 1, 2017

Beaufort County
120 Shanklin Road
Beaufort, South Carolina
843-255-2805

Introduction

This Stormwater Management Plan (SWMP) is designed to reduce the discharge of pollutants from Beaufort County, South Carolina Small Separate Storm Sewer System (SMS4) to the maximum extent practicable, to protect water quality and to satisfy the appropriate requirements of the Clean Water Act. The contents are expected to change with time due to the interactive process of developing the SWMP recognized by the Environmental Protection Agency (EPA). EPA permit cycle is over a 5-year term. The first permit term focused highly on data collection, organization, development of programs and public education. During the current cycle the County is required to update the SWMP. This document is a living document and will be updated on an annual basis to reflect accomplishment, potential revisions to program and additions if deemed necessary based on the previous year's program. Revisions made during the permit year are reflected as Highlighted Text and/or ~~Strikethrough~~ Text.

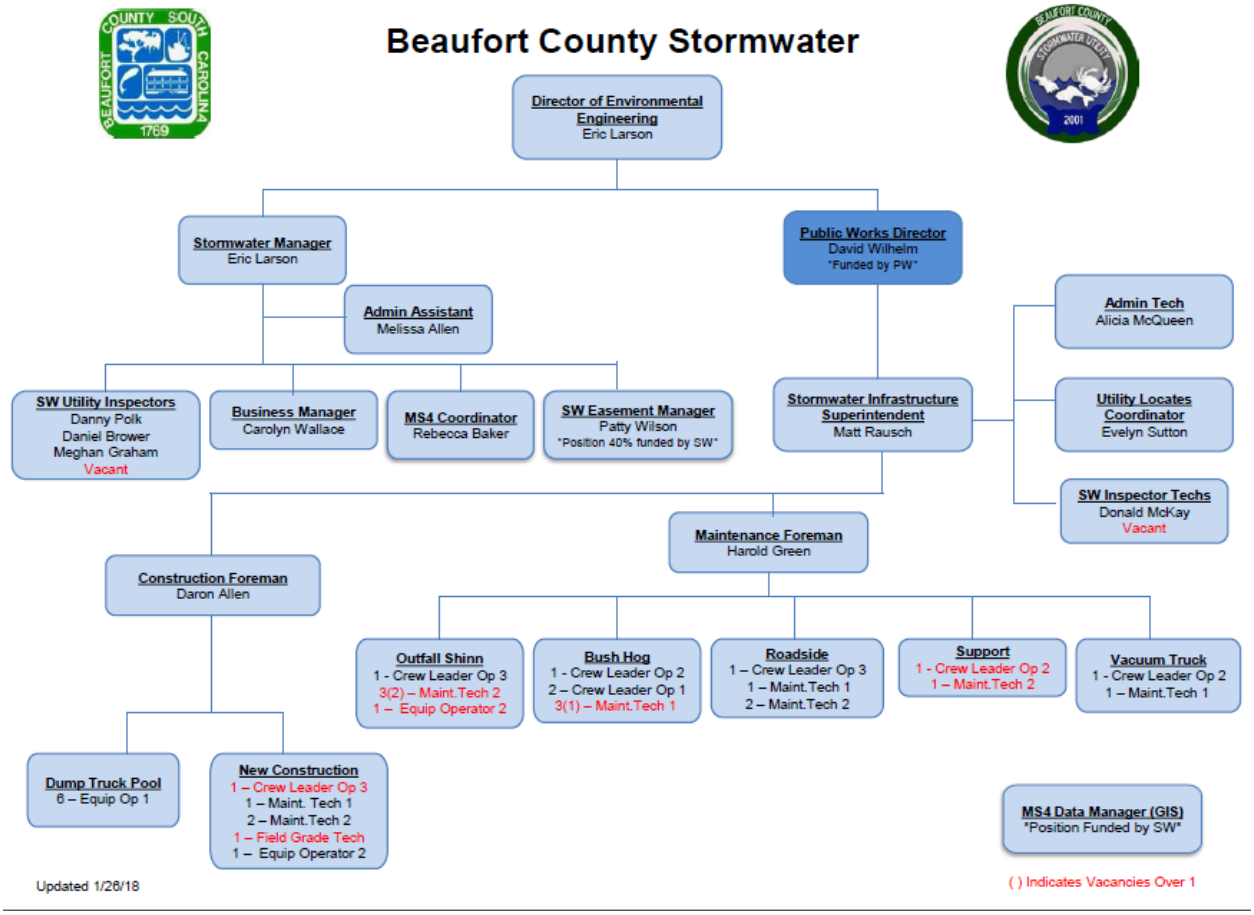
This SWMP meets the requirements of the NPDES General Permit for discharges from regulated SMS4's; Permit No. SCR030000, effective December 1, 2015.

"*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*"

	Interim County Administrator	
Signature	Title/MS4	Date

South Carolina Department of Health and Environmental Control
Bureau of Water
2600 Bull Street
Columbia, South Carolina 29201-1708

Organizational Chart



PART I
ADMINISTRATIVE INFORMATION

Name of municipal entity / tribe / state agency / federal agency / or public institution that owns / operates a small MS4:

Beaufort County	**N/A**
MS4	NPDES Small MS4 Permit Coverage Number
Joshua Gruber	**Interim County Administrator**
Responsible Elected Official or Officer	Title

100 Ribaut Road	**Beaufort**	**SC**	**29902**
Street Address	City	State	Zip Code

Indicate whether the SMS4 is a:

- ☒ Municipal Entity
- ☐ Tribe
- ☐ State Agency
- ☐ Federal Agency
- ☐ Other Public Institution: _____.

PROGRAM CONTACT	TECHNICAL CONTACT
Eric Larson	Eric Larson
Name	Name
elarson@bcgov.net	**elarson@bcgov.net**
Email Address	Email Address
(843) 255-2805	(843) 255-2805
Phone Number	Phone Number

PART II
SMS4 INFORMATION

ITEM A
MS4 SYSTEM

Urbanized Area (UA), or Core Municipality (if the SMS4 is not located in an UA)	**Beaufort County, SC**
Latitude and Longitude of the center of the SMS4	**32° 14' 50" N, 80° 50' 19"W**
Jurisdiction in square miles within current corporate boundaries:	**≈ 71 sq miles (Black Outline)**
Area of additional urban growth boundary:	**≈ 51 sq miles (Orange Outline)**

The permit will be used to regulate the:

☒ Entire Jurisdiction

Total Area: 596 sq. miles

☐ UA portions, as follows (Counties only):

Unincorporated Area	**≈ 596 sq miles**
Unincorporated, Urbanized Area	**≈ 71 sq miles (Black Outline)**

Other potential MS4s adjacent to Urbanized Area within Beaufort County:

1. **Town of Hilton Head Island, SC**
2. **Town of Bluffton, SC**
3. **SCDOT**
4. **University of SC, Beaufort New River Campus**
5. **Parris Island**

6. MCAS

ITEM B STORM DRAINAGE INFRASTRUCTURE

Give figures for the following features of stormwater drainage infrastructure. For a county government, indicate whether the figures represent the entire county or only the urbanized area. Figures for length and number of culverts and catch basins may be rough estimates. **Figures represent the entire County**

Entire Jurisdiction	**≈ ~~732~~ 596 sq. miles (Beaufort Co. is 732 sq. miles including other MS4 jurisdictions including military bases, Towns, and City.)** **(Beaufort County)**	Urbanized Area(s)	**≈ 71 sq miles**	COUNTIES ONLY
Storm Sewers	**≈ 528,000 Feet**	Open Ditches	**≈ 10,560,000 Feet**	
Culverts	**Included in Storm Sewers**	Catch Basins	**≈ 12,000**	

Retention and / or Detention Basins **≈ 1,000**

ITEM C STATE THE FOLLOWING, INCLUDE ITEMS IN A COPY OF THE SMS4 MOST CURRENT MAP AS POSSIBLE			
Zoned areas for commercial or industrial activity	No Change	State vocational, technical, college or universities	No Change
Actual areas of commercial or industrial activity	No Change	Federal vocational, technical, college or universities	No Change
Other municipally owned/operated industrial activities	No Change	City Roads	No Change
Municipal or County Wastewater Treatment Plants	No Change	County Roads	No Change
Vehicle Fleet Maintenance Centers	No Change	Perennial and intermittent streams	No Change
Power Plants	No Change	Topography or Drainage Patterns	No Change
Airports	No Change	Landfills (Garbage Convenience Stations)	No Change
Military Installations	No Change	Indian Country lands, if any	No Change
	No Change	Drainage Pipe and Structures	No Change

ITEM D IDENTIFYING IMPAIRED STREAMS AND ALL SENSITIVE WATER BODIES

Identify water bodies (located throughout the SMS4 jurisdiction, or extending one mile beyond the SMS4 service boundaries if cost effective) listed in Part 3 of the permit. Impairments, indicating the nature of pollution (cause) and their sources should be listed below. Visit: http://www.scdhec.gov/tmdl

STREAM NAME	WQMS	Impairment(s)
See list of water bodies on the 2016 303(d) List for Beaufort County, located in the 2017 Annual MS4 report, Section 1.C.		

ITEM E
HAS THE STATE OR EPA ISSUED A TDML FOR ANY STREAMS LOCATED THROUGHOUT THE SMS4 JURISDICTION OR EXTENDING ONE MILE BEYOND THE SMS4 SERVICE BOUNDARY?

Yes ☒ No ☐ If yes, list stream, WQMS, and parameter(s) of concern, visit: http://www.scdhec.gov/tmdl:

STREAM	WQMS and PARAMETERS OF CONCERN
Okatie River	**Shellfish Sites: 18-07, 18-08, 18-16, 18-17; Fecal Coliform**
Chechessee Creek	**Shellfish Sites: 18-03, 18-09, 18-10, 18-11: Fecal Coliform**
Beaufort River	**Sites: MD-001, MD-002, MD-003, MD-004, RO-02003; Dissolved Oxygen**

PART 3
STORMWATER MASTER PLAN

SECTION 1
PUBLIC EDUCATION

SECTION ONE

TABLE 1: BMP MEASURABLE GOALS AND IMPLEMENTATION MILESTONES

	Name	DESCRIPTION
A.	Identify Target Pollutants & Audience Messages	Beaufort County POC are; Bacteria, sediment, nutrients, litter, metals, hydrocarbons, pesticides and other that may be identified.
B.	Brochures	Create and distribute target audience based brochures on SW management & pollution protection
C.	Website	Create a standalone SW Website that provided all audiences with quick access to SW pollution prevention information. Update current "SW Kiosks"
D.	Event Participation	Trained staff will attend local events (e.g. Water Festival), will have a display station for face to face contact with public on SW quality goals and objectives and will have information for distribution
E.	School SW Programs	Develop various school curriculum for Elementary, Middle and High School level science programs that can be presented by teachers and/or County SW staff
F.	Community Surveys	Conduct Community wide surveys to gauge the public's knowledge of Stormwater issues
G.	Public Input	Provide opportunities via website or public meetings to citizen input on Stormwater issues
H.	LSP Strategic Plan	Support and implement the Lowcountry Stormwater Partners (LSP) regional stormwater outreach plan through Carolina Clear/Clemson. The outreach plan encompasses the activities and audiences identified in BMPs A-G above. Beginning in year 3, the County will implement public education and outreach primarily through the LSP initiative to be consistent with other MS4s in Beaufort County, to streamline reporting and to adapt to local needs more effectively.

TABLE 2: ADMINISTRATIVE INFORMATION

PRIMARY CONTACT	POSITION OR TITLE
Eric Larson, PE	Stormwater Manager

OTHER DEPARTMENT	ROLE

GOVERNMENT ENTITY	ROLE
Beaufort County SW Utility	Primary Responsible Party

OTHER INSTITUTION	ROLE
Carolina Clear/Clemson	Primary provider of Public Education services as a contractor to the County
County	Events

EQUIPMENT NEEDS (IF APPLICABLE)
NA

GROUP	TARGET DESCRIPTION
Carolina Clear/Clemson	Carolina Clear will assist in educating citizens about the impacts of stormwater and means to improve stormwater management and since this program provides outreach opportunities to address a broad range of water quality issues including the impact of stormwater on natural resources, Clemson and the County will collaborate to address stormwater public education and outreach and public involvement/participation. Carolina Clear is a comprehensive approach developed by Clemson University Cooperative Extension Service (CUCES) to inform and educate communities about, among other issues, water quality, water quantity, and the cumulative effects of stormwater. Carolina Clear addresses the special significance of South Carolina's water resources and the role these resources play in enhancing the state's economy, environmental health, and overall quality of life.

ADDENDUM
TO SMALL MS4 NPDES PERMIT NOTICE OF INTENT (SMS4-NOI)
BEST MANAGEMENT PRACTICES (BMP) MEASURABLE GOALS AND MILESTONES
These tables must be completed and attached for each of Sections 1 thru 6 of this Notice of Intent (NOI)

SECTION ONE

TABLE 3: BEST MANAGEMENT PRACTICES

The purpose of this addendum is to record the measurable goals for each BMP, and the dates (month and year) by which interim actions are to be accomplished. Space is given for four BMPs for each of the six minimum measures.

Measurable goals are BMP design objectives, or goals that will quantify the progress of implementing the actions or performance of a BMP. They are ways to measure activities or effects of a BMP. For each of the six minimum measures and for each BMP, define the measurable goal you will use to monitor effectiveness of this BMP.

For each BMP, establish milestones for implementation. These tables are set up for once/year milestones. You may change the milestone dates to time frames less than one year. Also, certain BMPs - e.g., an ordinance - should be put in place within one year.

BMP A	**MEASURABLE GOALS AND MILESTONES**
Goals	Identify Target Pollutants & Audience Messages
Milestone Year 1	Clemson will lead a regional effort that includes strategic identification of behaviors and pollutants that can be addressed through stormwater education programming; implementation of an outreach campaign that seeks to address target behaviors, pollutants, and audiences; website presence and information made available to the public about pollution prevention; annual data report regarding program activities.
Milestone Year 2	Identified possible causes and sources of pollutants.
Milestone Year 3	~~Continue to identify possible causes and sources of pollutants and develop target audiences to reach with stormwater pollution messages and educational materials~~
Milestone Year 4	~~Continue to identify possible causes and sources of pollutants and develop target audiences to reach with stormwater pollution messages and educational materials~~
Milestone Year 5	~~Continue to identify possible causes and sources of pollutants and develop target audiences to reach with stormwater pollution messages and educational materials – Review and assess success of program and modify as needed~~

BMP B	**MEASURABLE GOALS AND MILESTONES**
Goals	Distribution of SW Pollution Prevention Brochures to the public
Milestone Year 1	Created SW Pollution Prevention target audience brochures (e.g. general public, sportsmen, etc.). Develop a portable SW display booth

Milestone Year 2	Participated as a partner when possible at public events (festivals, etc.), set up booth and man, distribute audience specific brochures- Goal to reach an additional 1,000 people with SW education.
Milestone Year 3	~~Continue year 2 goals, add more events participation as opportunities become available, Goal – to reach an additional 2,000 people per year~~
Milestone Year 4	~~Continue program Goal – Reach 4,000 people per year~~
Milestone Year 5	~~Continue program Goal – Reach 5,000 people per year – Assess BMP results and adjust program as necessary~~

BMP C	**MEASURABLE GOALS AND MILESTONES**
Goals	Create an interactive Website, with standalone citizen report and complaint link and continue to use the existing stormwater educational kiosks
Milestone Year 1	Clemson University/Carolina Clear and Consortium utilizes their website, facebook and blogs to provide Stormwater Information and Education Website, with links to other programs (both public and private) that promote water quality and preservation practices. Utilize mass media outlets to provide statewide education at an increased cost-effectiveness; as needed, locally utilize mass media such as newspapers, radio, interviews and advertisements to address specific needs. Created billboards banners and promotional giveaways to provide education on POC which served as a way to attract audiences and increase regional consortium visibility. Reached approximately 42000 citizens with the billboards.
Milestone Year 2	Maintained and Updated Website based on customer input, availability of new information and input from both the development and environmental community.
Milestone Year 3	~~Update Website based on customer input, availability of new information and input from both the development and environmental community~~
Milestone Year 4	~~Update Website based on customer input, availability of new information and input from both the development and environmental community~~
Milestone Year 5	~~Update Website based on customer input, availability of new information and input from both the development and environmental community~~

BMP D	**MEASURABLE GOALS AND MILESTONES**
Goals	Event Participation
Milestone Year 1	Attended 32 events and reached 555 citizens with 6400 participants.
Milestone Year 2	Clemson University/Carolina Clear ~~will~~ delivered public education and outreach and public involvement/participation with a goal to influence a more aware and involved public in regards to stormwater management decisions. The educational programs ~~will~~ included components designed for various residential and commercial audiences and others targeted for their impact to stormwater and nonpoint source pollution. Events ~~will be~~ were held at available facilities in such a way to reach diverse and regionally distributed audiences. Such instruction ~~may~~ included the furnishing of informational handouts, instructional manuals, promotional materials, webpages, logos, slogan, symbols, and similar such materials, as deemed appropriate by Clemson and the County.
Milestone Year 3	~~Present at least one (1) program per year that addresses pollution prevention and alternatives for a target audience, as per the region's priorities.~~
Milestone Year 4	~~Present at least one (1) program per year that addresses pollution prevention and alternatives for a target audience, as per the region's priorities.~~
Milestone Year 5	~~Present at least one (1) program per year that addresses pollution prevention and alternatives for a target audience, as per the region's priorities.~~

BMP E	**MEASURABLE GOALS AND MILESTONES**
Goals	School Stormwater Programs
Milestone Year 1	Presented Enviroscapes at 16 schools and reached over 1400 students. Created a portable SW display and train staff to man the display for major local events. Goal – Have ready for 2015 Beaufort Water Festival.
Milestone Year 2	Provided ~~at least~~ one (1) **youth** program per year within the region such as Adopt-A-Watershed which uses a local watershed, Storm Drain Marking, 4-H Wetlands Project explores estuaries, marshes, and swamps, $4H_2O$ Pontoon Classroom, Engaging teachers in new watershed and stormwater curriculum meeting SC Standards, and EnviroScape.

Milestone Year 3	~~Provide at least one (1) **youth** program per year within the region such as Adopt-A-Watershed which uses a local watershed, Storm Drain Marking, 4-H Wetlands Project explores estuaries, marshes, and swamps, $4H_2O$ Pontoon Classroom, Engaging teachers in new watershed and stormwater curriculum meeting SC Standards, and EnviroScape~~
Milestone Year 4	~~Provide at least one (1) **youth** program per year within the region such as Adopt-A-Watershed which uses a local watershed, Storm Drain Marking, 4-H Wetlands Project explores estuaries, marshes, and swamps, $4H_2O$ Pontoon Classroom, Engaging teachers in new watershed and stormwater curriculum meeting SC Standards, and EnviroScape.~~
Milestone Year 5	~~Provide at least one (1) **youth** program per year within the region such as Adopt-A-Watershed which uses a local watershed, Storm Drain Marking, 4-H Wetlands Project explores estuaries, marshes, and swamps, $4H_2O$ Pontoon Classroom, Engaging teachers in new watershed and stormwater curriculum meeting SC Standards, and EnviroScape~~
BMP F	**MEASURABLE GOALS AND MILESTONES**
Goals	Community Surveys
Milestone Year 1	Created community wide stormwater public knowledge on line survey to integrate which was advertised on television, radio, internet and hard copies at the libraries. Received over 600 responses which will be used to create the Counties. The County will use the results to assist in the POC.
Milestone Year 2	~~At a minimum of *once per permit cycle* (anticipated as no less than 3 years and no more than 5 years), and on the Carolina Clear statewide schedule so as to gain regional comparison information, implement statistically relevant survey instruments to gain insight on the awareness, knowledge and behaviors of the general public related to stormwater and watershed management, as well as regional effort awareness.~~ None
Milestone Year 3	~~None~~.
Milestone Year 4	~~Implement second stormwater public knowledge survey, gather and correlate results to compare to measurable baseline data to gauge the public's increase in knowledge of stormwater issues.~~
Milestone Year 5	~~Assess two survey results and adjust survey program based upon survey results.~~
BMP G	**MEASURABLE GOALS AND MILESTONES**
Goals	Public Input Opportunities
Milestone Year 1	Held 7 town hall meetings in various locations within the County in order to receive input on the BMP manual, stormwater master plan and ordinance. We had 83 citizens attend town hall meetings and received 60 comments from residences within all areas of the County. We have monthly Stormwater Utility Board meetings that allow the Public to present their concerns or suggestions.
Milestone Year 2	Planned, developed, presented, and ~~be a participant~~ participated in more than 10 ~~at least three (3)~~ community and public programs ~~per year~~ with emphasis on stormwater education. Provided resources to encourage continued learning and practice adoption. Presented ~~at least one (1)~~ programs ~~per year that~~ ~~addresses~~ addressed pollution prevention and alternatives for a target audience, as per the region's priorities. Developed and provided for the general public, within means, items such as banners and promotional giveaways to serve as a way to attract audiences and increase regional consortium visibility. ~~At a minimum of *once per permit cycle* (anticipated as no less than 3 years and no more than 5 years), and on the Carolina Clear statewide schedule so as to gain regional comparison information, implement statistically relevant survey instruments to gain insight on the awareness, knowledge and behaviors of the general public related to stormwater and watershed management, as well as regional effort awareness.~~ [Note that the survey activity is captured in the BMP above.]
Milestone Year 3	~~Develop and provide for the general public various items such as banners and promotional giveaways to serve as a way to attract audiences and increase regional consortium visibility.~~
Milestone Year 4	~~Conduct second public meeting in all areas of the County. Compare results to input received from surveys.~~
Milestone Year 5	~~Based on survey results, promote and expand web-based tools to encourage learning about and pollutant of concerns.~~
BMP H	**MEASURABLE GOALS AND MILESTONES**
Goals	Support and implement the Lowcountry Stormwater Partners regional stormwater outreach plan through Carolina Clear/Clemson.
Milestone Year 1	
Milestone Year 2	

Milestone Year 3	Implement the activities identified in the LSP 2016-2018 Strategic Regional Stormwater Outreach Plan. Work with the LSPs to develop the strategic plan for 2018 – 2020.
Milestone Year 4	Implement the LSP Strategic Stormwater Outreach Plan.
Milestone Year 5	Implement the LSP Strategic Stormwater Outreach Plan.

SECTION 2 PUBLIC INVOLVEMENT AND PUBLIC PARTICIPATION

1. Have (or will, within the first year of permit coverage,) the public been invited to participate in the development and implementation of all parts of the community's SWMP?

Yes ☒ No ☐ | If no, explain

2. Are (or will, during the permit term) opportunities created for citizens to participate in the implementation of stormwater controls (e.g., stream clean-ups, storm drain stenciling, volunteer monitoring, and educational activities)?

Yes ☒ No ☐ | If no, explain

3. Has the permittee (or will, during the permit term,) ensured that the public can easily find information about the SMS4 SWMP? If available in the web, provide link

Yes ☒ No ☐ | http://www.clemson.edu/public/carolinaclear

4. Are (or will) written procedures for implementing the **Public Involvement / Participation** MCM incorporated into the SWMP?

Yes ☒ No ☐ | If no, explain

Complete Tables 1, 2, and 3 (BMP Measurable Goals and Milestones) in the addendum of this NOI. Identify and outline measurable goals and milestones. Attach completed Section 2 tables to this NOI.

ADDENDUM

TO SMALL MS4 NPDES PERMIT NOTICE OF INTENT (SMS4-NOI)

BEST MANAGEMENT PRACTICES (BMP) MEASURABLE GOALS AND MILESTONES

These tables must be completed and attached for each of Sections 1 thru 6 of this Notice of Intent (NOI)

SECTION TWO

TABLE 1: BMP MEASURABLE GOALS AND IMPLEMENTATION MILESTONES

	Name	DESCRIPTION
A.	Storm Drain Stenciling	Install new drain markers via volunteers by advertising at events, community meetings.
B.	Public Meetings/Citizen Panels	Set up formal advertised meetings in various areas of the County to that the County can present SW information and gain citizen input and can raise concerns and/or problems
C.	Community Clean Ups	Set up formal community clean up days for cleaning trash and debris for roadsides, ditches, etc. in the watershed areas
D.	LSP Strategic Plan	Support and implement the Lowcountry Stormwater Partners (LSP) regional stormwater outreach plan through Carolina Clear/Clemson. The outreach plan encompasses many of the activities and audiences identified in BMPs A-C above. Beginning in year 3, the County will implement public education and outreach primarily through the LSP initiative to be consistent other MS4s in Beaufort County, to streamline reporting and to adapt to local needs more effectively.

TABLE 2: ADMINISTRATIVE INFORMATION

PRIMARY CONTACT	POSITION OR TITLE
Eric Larson, PE	Stormwater Manager

OTHER DEPARTMENT	ROLE
Clemson	Clemson University will assist County staff with various levels of expertise concerning stormwater compliance requirements as promulgated by SC DHEC and USEPA; and PUBLIC awareness and

University/Carolina Clear	education about natural resources is crucial to the process of protecting and restoring water quality.

BEST MANAGEMENT PRACTICES (BMPs) MEASURABLE GOALS AND IMPLEMENTATION MILESTONES (Continued)	
GOVERNMENT ENTITY	ROLE
Beaufort County SW Utility	Primary responsible party

OTHER INSTITUTION	ROLE
Clemson University/Carolina Clear	Clemson University will assist County staff with various levels of expertise concerning stormwater compliance requirements as promulgated by SC DHEC and USEPA; and PUBLIC awareness and education about natural resources, as public education is crucial to the process of protecting and restoring water quality. Clemson will deliver public education and outreach and public involvement/participation with a goal to influence a more aware and involved public in regards to stormwater management decisions. The educational programs will include components designed for various residential and commercial audiences and others targeted for their impact to stormwater and nonpoint source pollution. This effort will be delivered through various means., ~~as detailed below in items 4 and 5.~~ Events will be held at available facilities in such a way to reach diverse and regionally distributed audiences. Such instruction may include the furnishing of informational handouts, instructional manuals, promotional materials, webpages, logos, slogan, symbols, and similar such materials, as deemed appropriate by Clemson and the County.

EQUIPMENT NEEDS (IF APPLICABLE)
Storm drain markings

GROUP	TARGET DESCRIPTION
County	Organize and promote marker installation events

ADDENDUM
TO SMALL MS4 NPDES PERMIT NOTICE OF INTENT (SMS4-NOI)
BEST MANAGEMENT PRACTICES (BMP) MEASURABLE GOALS AND MILESTONES
These tables must be completed and attached for each of Sections 1 thru 6 of this Notice of Intent (NOI)

SECTION TWO

TABLE 3: BEST MANAGEMENT PRACTICES

The purpose of this addendum is to record the measurable goals for each BMP, and the dates (month and year) by which interim actions are to be accomplished. Space is given for four BMPs for each of the six minimum measures.

Measurable goals are BMP design objectives, or goals that will quantify the progress of implementing the actions or performance of a BMP. They are ways to measure activities or effects of a BMP. For each of the six minimum measures and for each BMP, define the measurable goal you will use to monitor effectiveness of this BMP.

For each BMP, establish milestones for implementation. These tables are set up for once/year milestones. You may change the milestone dates to time frames less than one year. Also, certain BMPs - e.g., an ordinance - should be put in place within one year.

BMP A	**MEASURABLE GOALS AND MILESTONES**
Goals	Storm Drain Marker Program
Milestone Year 1	Installed 244 storm drain markers and reached 412 residences.
Milestone Year 2	Identify groups (e.g. Boy & Girl Scouts, Service clubs, etc.) that can provide volunteers to place markers

	on SW structures. Goal – Complete 25% of SW structures in the County. 58 drain markers were installed. Additional advertisement to encourage public involvement is needed to achieve better public participation. To ensure all drains are marked the County may allow in house staff to place markers since public involvement for this task has been very limited.
Milestone Year 3	~~Continue program and cover another 25% of SW structures.~~
Milestone Year 4	~~Continue program and cover another 25% of SW structures~~
Milestone Year 5	~~Complete remaining 25% of SW structures~~

BMP B	**MEASURABLE GOALS AND MILESTONES**
Goals	Public Meeting Citizen Participation Panels
Milestone Year 1	Held 7 town hall meetings in various locations within the County in order to receive input on the BMP manual, stormwater master plan and ordinance. We had 83 citizens attend town hall meetings and received 60 comments from residences within all areas of the County. We have monthly Stormwater Utility Board meetings that allow the Public to present their concerns or suggestions. Established and documented procedures for advertising Citizen Input meeting, conducting such meeting, areas to be targeted, program for such event Goal – Conduct first event.
Milestone Year 2	The County has ~~quarterly~~ monthly Stormwater Utility Board meetings and quarterly Lowcountry Stormwater Partners (Clemson) meetings. The meetings are open to the public and televised to allow citizen input.
Milestone Year 3	~~Conduct four additional SW Citizen Input meetings in various areas of the County~~
Milestone Year 4	~~Conduct four additional SW Citizen Input meetings in various areas of the County. Evaluate effectiveness of the program, adjust program as may be needed.~~
Milestone Year 5	~~Conduct four additional SW Citizen Input Meetings in various areas of the County.~~

BMP C	**MEASURABLE GOALS AND MILESTONES**
Goals	Community Clean Up Days
Milestone Year 1	Create and document a Community Cleanup program, identify liabilities and responsibilities, insurance requirement, areas to be targeted, traffic and pedestrian protection procedures, collection and disposal of bags, etc. Goal – Written program in year one.
Milestone Year 2	Organized teams in targeted areas, advertised and promoted cleanup days, provided on-site program management, arranged for collection and disposal, etc. Goal – two cleanup program trials, assess results and modify program as may be necessary. Clemson prepared an annual report detailing milestones achieved in Year 2.
Milestone Year 3	~~Continue to identify cleanup areas, organize teams and advertise programs Goal – Four cleanup programs~~
Milestone Year 4	~~Continue to identify cleanup areas, organize teams and advertise programs Goal – Four cleanup programs~~
Milestone Year 5	~~Continue to identify cleanup areas, organize teams and advertise programs Goal – Four cleanup programs~~

BMP D	**MEASURABLE GOALS AND MILESTONES**
Goals	Support and implement the Lowcountry Stormwater Partners regional stormwater outreach plan through Carolina Clear/Clemson.
Milestone Year 1	
Milestone Year 2	
Milestone Year 3	Implement the activities identified in the LSP 2016-2018 Strategic Regional Stormwater Outreach Plan. Work with the LSPs to develop the strategic plan for 2018 – 2020.
Milestone Year 4	Implement the LSP Strategic Stormwater Outreach Plan.
Milestone Year 5	Implement the LSP Strategic Stormwater Outreach Plan.

SECTION 3
ILLICIT DISCHARGE DETECTION AND ELIMINATION

The following are common sources of illicit discharges to an MS4:

- Sanitary Wastewater
- Car wash wastewaters
- Radiator flushing disposal
- Spills from roadway accidents
- Carpet cleaning wastewaters
- Effluent from septic tanks
- Improper oil disposal
- Laundry Wastewaters/gray water
- Improper disposal of auto and household toxics

STORM SEWER SYSTEM MAP

Does the MS4 currently have a storm sewer system map completed for the entire regulated municipal separate storm sewer system? The map must depict, at a minimum: city streets, topography or drainage patterns, streams, and outfalls (points where the city or county-operated MS4 discharges into the streams or adjacent MS4s).

Yes ☒ No ☐ If no, explain

Beaufort County has a working map that has storm structures identified. The map is constantly being updated to capture new stormwater structures and address all parameters mentioned above.

PRIORITY AREAS, FIELD SCREENING, TRACING AND ELIMINATION OF ILLICIT DISCHARGES

Has (or will, within the first year of permit coverage,) the MS4 identified priority areas documenting its basis for the selection?

Yes ☒ No ☐ If no, explain

Does the MS4 currently have (or will have) written field screening and analytical protocol to detect and eliminate illicit discharges to the MS4 within one year from the effective date of coverage?

Yes ☒ No ☐ If no, explain

See BMP Manual Appendix C.

Does the MS4 currently have procedures for tracing the source of an illicit discharge?

Yes ☒ No ☐ If no, explain

See BMP Manual Appendix C.

INSPECTION/SCREENING AND ENFORCEMENT PROCEDURES

1. Does the MS4 presently have personnel and procedures in place for inspection and/or screening for non-stormwater discharges? If yes, please describe and indicated percentage of system inspected and/or screened.

Yes ☒
No ☐

As of Dec. 1, 2017, It is estimated that 50% of the system has been mapped, inventoried, and inspection for condition assessment.

2. Does the MS4 presently have procedures and personnel in place for enforcement of violations of the illicit discharge ordinance? If yes, please describe.

Yes ☒
No ☐

See the Stormwater Ordinance in BMP Manual Appendix G. There have been no changes since Year 1.

3. How are enforcement actions documented?

Enforcement actions are documented through the new stormwater data base.

4. Has the MS4 defined "hot spots" for non-stormwater discharge screening and inspections? If yes, please describe and provide a map of illicit discharge screening priority areas.

Yes ☒ No ☐

Mapped in Year 1. To be evaluated in Year 3 based on change in permitted

boundary due to Permit by Rule status and evaluation of historical complaints received in Years 1 and 2.

PUBLIC INPUT AND COMPLAINTS

1. Does the MS4 presently have procedures in place to receive and consider information and complaints about non-stormwater discharges that are submitted by the public? If so, provide brief description: responsible departments, personnel, steps followed.

Yes ☒ No ☐

The General Public, municipalities and in house staff can submit a complaint through a new citizen "connect" app. that was created to assist in reporting non-stormwater discharges. The app. will allow the complaints to be identified by type of discharge such as: automobile fluids, chemicals, construction site runoff, restaurant grease trap, SSO, yard clippings etc. The County will disburse the complaint to the appointed staff members to investigate complaint. The application will allow the County to run reports to track complaints.

EDUCATION

1. Has the MS4 educated the public and businesses including, but not limited to, auto parts supply, auto repair shop and restaurants, regarding ways to detect, prevent and eliminate illicit discharges? If yes, briefly describe the educational materials, including media used (e.g., written brochures, public service announcements, etc.), the topic(s) covered, intended target audience(s), and the distribution method.

Yes ☒ No ☐

Clemson University/Carolina Clear and Consortium utilizes their website, facebook and blogs to provide Stormwater Information and Education Website, with links to other programs (both public and private) that promote water quality and preservation practices. Utilize mass media outlets to provide statewide education at an increased cost-effectiveness; as needed, locally utilize mass media such as newspapers, radio, interviews and advertisements to address specific needs. Created billboards banners and promotional giveaways to provide education on POC which served as a way to attract audiences and increase regional consortium visibility. New brochures where created for distribution at the landfills to increase education on how to properly dispose of household chemicals.

ILLICIT DISCHARGE ORDINANCES

1. Does the MS4 currently have an ordinance or regulatory mechanism that prohibits non-stormwater discharges into the storm sewer system? If yes, please attach a copy of the ordinance and give page number(s) of this section of ordinance. If No, proceed to the next section (inspections and enforcement).

Yes ☒ No ☐ BMP Manual App.G, Pg. G-19 Page Number 99-202 Ordinance Section Number

2. Does the ordinance or regulatory mechanism clearly define non-stormwater discharges, either through a written description of a non-stormwater discharge or through a listing of unallowable or allowable non-stormwater discharges?

Yes ☒ No ☐ If no, explain

3. Does the ordinance or regulatory mechanism allow right-of-entry on private property for inspection of suspected discharges?

Yes ☒ No ☐ If no, explain

4. Does the ordinance or regulatory mechanism prohibit dumping?

Yes ☒ No ☐ If no, explain

5. Does the ordinance or regulatory mechanism give the MS4 owner/operator the authority to eliminate non-stormwater discharges in the event of violations? If yes, please note page number and paragraph number.

Yes ☒ No ☐ BMP Manual G-32 Page Number Sec. 99-502 Paragraph Number

6. What is maximum penalty in ordinance or regulatory? Please note maximum penalty, page number and paragraph number.

Yes ☒ No ☐ Criminal Max. Penalty $1000.00 BMP Manual Page Number G-13 Sec.99-113 Paragraph Number

7. Does the MS4 have ordinance or other regulatory mechanism that prohibits contamination of stormwater runoff from "hot spots" including industrial and commercial properties, restaurants, auto repair shops, auto supply shops, and large commercial parking areas?

Yes ☒ No ☐ If no, explain

Complete Tables 1, 2, and 3 (BMP Measurable Goals and Milestones) in the addendum of this NOI. Identify and outline measurable goals and milestones. Attach completed Section 1 tables to this NOI.

ADDENDUM

TO SMALL MS4 NPDES PERMIT NOTICE OF INTENT (SMS4-NOI)

BEST MANAGEMENT PRACTICES (BMP) MEASURABLE GOALS AND MILESTONES

These tables must be completed and attached for each of Sections 1 thru 6 of this Notice of Intent (NOI)

SECTION THREE

TABLE 1: BMP MEASURABLE GOALS AND IMPLEMENTATION MILESTONES

	Name	DESCRIPTION
A.	Adequate Legal Authorities	An ordinance was adopted and the current BMP manual was approved and meets all sections of 4.1.4.2 and was attached to the NOI.
B.	Develop Outfall Inventory Map	The County has completed ~~25~~ 50% of the outfall inventory map. ~~stormwater infrastructure inventory along with revising the current BMP manual that requires new and redevelopment to provide as-builts prior to receiving certificate of completion~~Map and inspect 25% per year until complete.
C.	Outfall Screening for Illicit Discharges	The General Public, municipalities and in house staff can submit a complaint through a new citizen "connect" app. that was created to assist in reporting non-stormwater discharges. The app. will allow the complaints to be identified by type of discharge such as: automobile fluids, chemicals, construction site runoff, restaurant grease trap, SSO, yard clippings etc. The County will disburse the complaint to the appointed staff members to investigate complaint. The County has developed a dry weather screening program and have attached the standard operating procedures in accordance with 4.2.3.2.3.a ii. In addition, we have included the proposed locations for dry weather screening and how we determined location and equipment used. Also, include is the proposed locations of the dry weather screening, explanation on how we determined the location and equipment used.
D.	Prioritize Other Potential Illicit Discharges and Non-storm Water Discharges	The County has prioritized the illicit discharge screening schedule based on the last years monitoring results, septic tank locations, current land use and the most recent survey results. Prioritization will be updated based on revised permit boundary and complaint history. The County has developed an illicit discharge detection elimination program that addresses section 4.2.3.2.3.a ii and was attached with the NOI.
E.	Education on Illicit Discharges	Clemson University/Carolina Clear and Consortium utilizes their website, facebook and blogs to provide Stormwater Information and Education Website, with links to other programs (both public and private) that promote water quality and preservation practices. Utilize mass media outlets to provide statewide education at an increased cost-effectiveness; as needed, locally utilize mass media such as newspapers, radio, interviews and advertisements to address specific needs. Created billboards banners and promotional giveaways to

		provide education on POC which served as a way to attract audiences and increase regional consortium visibility. New brochures where created for distribution at the landfills to increase education on how to properly dispose of household chemicals.
F.	Enforcement	Enforcement policy has been adopted as part of our new stormwater ordinance section 99-501 to 99-504 - Requirements for on-site stormwater systems: enforcement, methods and inspections.
G.	Monitoring Plan	The County has developed a monitoring plan based on the findings from several methods. See Appendix C BMP Manual. We have completed a survey, complied historical monitoring data, compared last 10 years of land use, location of septic tanks, TMDL and impaired water bodies as the basis of our monitoring program. The monitoring plan will be updated to include the TMDLs in the expanded permit boundaries.
H.	Staff Training on IDDE	Educate staff about IDDE protocols found in BMP Manual to all applicable staff, including inspectors, field personnel, and facility operators.
I.	Stormwater System Asset Mapping	Map the stormwater system throughout the County's unincorporated area. Map and inspect at least 25% of the system per year. The current BMP manual requires new and redevelopment to provide as-builts prior to receiving certificate of completion. This stormwater information will be included in the overall stormwater system asset map to better manage the system and track IDDEs.

TABLE 2: ADMINISTRATIVE INFORMATION	
PRIMARY CONTACT	POSITION OR TITLE
Eric Larson, PE	Stormwater Manager

OTHER DEPARTMENT	ROLE
Stormwater Regulatory	MS4 Coordinator and Stormwater Inspectors

BEST MANAGEMENT PRACTICES (BMPs) MEASURABLE GOALS AND IMPLEMENTATION MILESTONES (Continued)	
GOVERNMENT ENTITY	ROLE
Beaufort County SW Regulatory	Eric Larson, Stormwater Manager

OTHER INSTITUTION	ROLE
Carolina Clear Clemson University	Ellen,Comeau Coordinator working with all Municipalities in Beaufort County

EQUIPMENT NEEDS (IF APPLICABLE)
Sampling Equipment

GROUP	TARGET DESCRIPTION
Beaufort County Stormwater Utility	Equipment necessary for sampling
USCB	Routine and special projects water quality sample collection, Lab services

ADDENDUM
TO SMALL MS4 NPDES PERMIT NOTICE OF INTENT (SMS4-NOI)
BEST MANAGEMENT PRACTICES (BMP) MEASURABLE GOALS AND MILESTONES

These tables must be completed and attached for each of Sections 1 thru 6 of this Notice of Intent (NOI)

SECTION THREE

TABLE 3: BEST MANAGEMENT PRACTICES

The purpose of this addendum is to record the measurable goals for each BMP, and the dates (month and year) by which interim actions are to be accomplished. Space is given for four BMPs for each of the six minimum measures.

Measurable goals are BMP design objectives, or goals that will quantify the progress of implementing the actions or performance of a BMP. They are ways to measure activities or effects of a BMP. For each of the six minimum measures and for each BMP, define the measurable goal you will use to monitor effectiveness of this BMP.

For each BMP, establish milestones for implementation. These tables are set up for once/year milestones. You may change the milestone dates to time frames less than one year. Also, certain BMPs - e.g., an ordinance - should be put in place within one year.

BMP A	MEASURABLE GOALS AND MILESTONES
Goals	Within 24 months of the effective date of this permit, develop an ordinance, or other regulatory mechanism, adequate legal authorities to meet the objectives of the Illicit Discharge Stormwater Management Program consistent with Sections 4.2.3.2.5 and 4.2.3.2.7 of SCRO300000 Establish the authority to request information such as stormwater plans, inspection reports, monitoring results, and other information deemed necessary to evaluate compliance with the Illicit Discharge Stormwater Management Program. Establish the authority to enter private property for the purpose of inspecting at reasonable times any facilities, equipment, practices, or operations related to stormwater illicit discharges to determine whether there is compliance of the Illicit Discharge Stormwater Management Program. Establish the authority to issue violations to determined establishments and/or owners when illicit discharges and/or non-storm water discharges are determined.
Milestone Year 1	Developed and adopted a new stormwater ordinance setting forth the illicit discharge program, requiring implementation and continued maintenance of outfall inventory data collection. The ordinance included necessary authorities for determining illicit discharges and non-storm water discharges, outfall screening, authority to enter public or private property with outfalls, trace illicit discharges to source, and enforcement.
Milestone Year 2	Complete development of ordinance setting forth the illicit discharge program, requiring implementation and continued maintenance of outfall inventory data collection. Implemented ordinance and continued progress with programs authorized in the ordinance.
Milestone Year 3	Implement ordinance setting forth the illicit discharge program, requiring implementation and continued maintenance of outfall inventory data collection.
Milestone Year 4	Continue implementation of ordinance setting forth the illicit discharge program, requiring implementation and continued maintenance of outfall inventory data collection.
Milestone Year 5	Review and reassess ordinance setting forth the illicit discharge program, requiring implementation and continued maintenance of outfall inventory data collection.

BMP B	MEASURABLE GOALS AND MILESTONES
Goals	Develop procedures for field data collection activities and administration tasks for new development. Implement inventory collection of County owned ~~stormwater structures and~~ outfalls. Complete overall inventory map and continue to update map as construction plans are approved and developments are constructed.
Milestone Year 1	Inspected 25% off all outfalls. Developed procedures for field data collection activities and administration tasks for data collection of new development. All development will be required to submit as-builts prior to issuance of the certificate of completion. The new stormwater permit data base will allow the staff to track new BMP's that are constructed during monthly or annual inspection. The Stormwater Department also purchased a video camera that will be able to provide field data on possible stormwater pipe failures. All BMP's will be required to record a maintenance agreement.
Milestone Year 2	~~Implement inventory of 25% of County owned outfalls.~~ Inspected 100% of the known storm sewer system within the County after Hurricane Matthew including stormwater infrastructure pipes and outfalls.
Milestone Year 3	Implement inventory of another 25% of County owned outfalls. Continue to update map as new development and/or changes occur.

Milestone Year 4	Implement inventory of another 25% of County owned outfalls. Continue to update map as new development and/or changes occur.
Milestone Year 5	Complete inventory map by implementing inventory of remaining 25% of County owned outfalls. Continue to update map as new development and/or changes occur.

BMP C	MEASURABLE GOALS AND MILESTONES
Goals	Determine a list of significant illicit discharges. Develop and implement procedures for conducting outfall screening with scheduled visits of all outfalls to locate the problem, determine the source of the problem, remove/correct the illicit discharge, organize data collected, and report illicit discharges determined.
Milestone Year 1	Participated in a survey to determine list of significant illicit discharges. Developed procedures for conducting outfall screening with scheduled visits of all outfalls. Report illicit discharges in annual report.
Milestone Year 2	Implemented ~~conducting~~ outfall screening and inspections of reported violations to determine source of illicit discharge. Performed 23 inspections and created documentation in Munis. Results are reported in annual report.
Milestone Year 3	Continue to implement conducting outfall screening and determine source of illicit discharge.
Milestone Year 4	Continue to implement conducting outfall screening and determine source of illicit discharge.
Milestone Year 5	(60 months) Conduct outfall screening with a schedule to visit all outfalls during the permit term. Maintain records of all data collected.

BMP D	**MEASURABLE GOALS AND MILESTONES**
Goals	Determine a list of other potential illicit discharges, non-storm water discharges and incidental non-storm water discharges. Prioritize and establish procedures to evaluate the list of other potential illicit discharges and non-storm water discharges.
Milestone Year 1	Completed survey and held a strategic planning meeting with all local municipalities to identify behaviors that contribute to stormwater pollution as well as audiences that need additional education about stormwater pollution and particular areas of concerns.
Milestone Year 2	Implement procedures for determining list of other potential illicit discharges, non-storm water discharges and incidental non-storm water discharges.
Milestone Year 3	Prioritize investigations for the other potential illicit discharges, non-storm water discharges, and incidental non-storm water discharges.
Milestone Year 4	Begin investigating for other potential illicit discharges, non-storm water discharges, and incidental non-storm water discharges.
Milestone Year 5	Continue investigating for other potential illicit discharges, non-storm water discharges, and incidental non-storm water discharges.

BMP E	**MEASURABLE GOALS AND MILESTONES**
Goals	Establish education and training to the public on illicit discharges.
Milestone Year 1	The five major pollutants based on the strategic planning effort with Carolina Clear are the following: Post Construction, run off volume, littering, bacteria (septic tanks and SSO) and fertilizer. We have determined the target audience for each pollutant of concern and will continue education and training of the public.
Milestone Year 2	Continued education and training to the public.
Milestone Year 3	Continue education and training to the public.
Milestone Year 4	Continue education and training to the public.
Milestone Year 5	Continue education and training to the public.

BMP F	**MEASURABLE GOALS AND MILESTONES**
Goals	Track the issuance of notices of violation and enforcement actions. This mechanism shall include the ability to identify chronic violators for initiation of actions to reduce noncompliance.

Milestone Year 1	Enforcement policy has been adopted as part of our new stormwater ordinance section. Sec. 99-501 to 99-504. - Requirements for on-site stormwater systems: enforcement, methods and inspections. A database was also created to track illicit discharge and enforcement. The database will also provide reports to assist in determining if an area has consistent violations.
Milestone Year 2	~~Begin to track issuance of notices of violations and enforcement actions.~~ Notices of violation and enforcement actions have begun to be tracked through MUNIS.
Milestone Year 3	Continue to track issuance of notices of violations and enforcement actions.
Milestone Year 4	Continue to track issuance of notices of violations and enforcement actions.
Milestone Year 5	Review and reassess procedures and database.
BMP G	**MEASURABLE GOALS AND MILESTONES**
Goals	Measure pollutant levels discharged from identified outfalls to water bodies subject to TMDL.
Milestone Year 1	The County has several watersheds within the County that are impaired and one TMDL. The Okatie River TMDL is identified as having an impairment for fecal. The TMDL has over 10 years of data that is being analyzed to determine possible sources of pollutants such as: wild life, agriculture and failing septic tanks. Developed a TMDL Monitoring and Assessment Plan for discharges of concern located in the TMDL watershed draining to impaired WQMS.
Milestone Year 2	~~Develop a TMDL Monitoring and Assessment Plan for discharges of concern located in the TMDL watershed draining to impaired WQMS.~~ Determined a schedule for implementing the developed TMDL Monitoring and Assessment Plan. Developed procedures for implementation of water quality monitoring and monitoring database and implement procedures (30 months). Began analysis of historical data to determine trends and loading by looking at the TMDL watershed, Okatie River.
Milestone Year 3	~~Determine a schedule for implementing the developed TMDL Monitoring and Assessment Plan. Develop procedures for implementation of water quality monitoring and monitoring database and implement procedures (30 months).~~ Continue to implement monitoring schedule and database. Report data and findings of water quality monitoring to DHEC. Update Monitoring Plan for expanded jurisdiction due to change to Permit by Rule.
Milestone Year 4	Continue to implement monitoring schedule and database. Report data and findings of water quality monitoring to DHEC. Develop an Implementation Plan for the Okatie River Watershed.
Milestone Year 5	Continue to implement monitoring schedule and database. Report data and findings of water quality monitoring to DHEC.
BMP H	**MEASURABLE GOALS AND MILESTONES**
Goals	Staff training on IDDE
Milestone Year 1	
Milestone Year 2	Develop training materials. Train staff. Provided training program webinar developed by SESWA to applicable county staff and inspectors.
Milestone Year 3	Provide annual refresher training and full training for new staff.
Milestone Year 4	Provide annual refresher training and full training for new staff.
Milestone Year 5	Provide annual refresher training and full training for new staff.
BMP I	**MEASURABLE GOALS AND MILESTONES**
Goals	Map the County owned storm sewer system.
Milestone Year 1	Developed procedures for mapping and condition assessment of the storm sewer system. GIS created data collection software tools and inventory protocols.
Milestone Year 2	Map and assess 25% of stormwater management system. Report “poor” condition areas to the SW Superintendent. Add new stormwater system components accepted in new developments through the as-built process.
Milestone Year 3	Map and assess 25% of stormwater management system. Report “poor” condition areas to the SW Superintendent. Add new stormwater system components accepted in new developments through the as-built process.
Milestone Year 4	Map and assess 25% of stormwater management system. Report “poor” condition areas to the SW

	Superintendent. Add new stormwater system components accepted in new developments through the as-built process.
Milestone Year 5	Map and assess remaining 25% of stormwater management system. Report “poor” condition areas to the SW Superintendent. Add new stormwater system components accepted in new developments through the as-built process.

SECTION 4

CONSTRUCTION SITE RUNOFF PROGRAM

CONSTRUCTION SITE RUNOFF ORDINANCES

1. Do the current ordinances/regulations for the municipal stormwater management program comply with Local, State and Federal public notice requirements? If yes, describe how the public is notified.

Yes ☒
No ☐

Please see attached section Sec. 99-211. of the Stormwater Ordinance which explains how the Public is notified.

2. Do you currently have an erosion prevention and sediment control - or similar - ordinance or regulatory mechanism? If yes, include a copy and reference the page number(s). If No, proceed to the next set of questions below about construction site plans review.

Yes ☒ No ☐ **Sec. 99-201 Appendix G-17,18 and Sec. 99-309 Appendix G BMP Manual & Sec. 4 Page 4-1 to 4-68** Page Number

3. Does the ordinance or regulatory mechanism require that site operators implement erosion prevention, sediment control, soil stabilization practices and other controls for land disturbance activities?

Yes ☒ No ☐ If no, explain

4. Does the ordinance/regulatory mechanism require (explicitly or implicitly) that controls be implemented for any land disturbances greater than or equal to one acre, or less than one acre if part of a large common plan of development or sale that would disturb one acre or more? If yes, note the page number and paragraph number where this is defined.

Yes ☒ No ☐ **A-1** Page Number **Appendix A** Paragraph Number

5. Does the ordinance or regulatory mechanism contain or reference technical standards for erosion and sediment control? If yes, note the page number and paragraph number where this is defined.

Yes ☒ No ☐ **4-1** Page Number **Section 4** Paragraph Number

6. Do those technical standards meet with or exceed the current SC DHEC construction general permit sections 3.5 and 4.4?

Yes ☒ No ☐

7. Do technical standards require that construction activities maintain temporary water quality buffers during construction?

Yes☒ No ☐

8. Does the ordinance or regulatory mechanism clearly define the criteria - primarily who must submit - for submitting erosion and sediment control information or plans? If yes, note page number and paragraph number

Yes☒ No ☐ **4-1** Page Number **Section 4** Paragraph Number

9. Does the ordinance or regulatory mechanism require approval by the local government prior to commencement of land disturbance activities? If yes, note page number and paragraph number.

Yes ☒ No ☐ **4-1** Page Number **Section 4** Paragraph Number

10. Does the ordinance or regulatory mechanism require re-submittal of erosion and sediment control information or plans if site plans or conditions change during land disturbance activities? If yes, note page number and paragraph number.

Yes ☒ No ☐ **G-5** Page Number **99-103** Paragraph Number

11. Does the ordinance or regulatory mechanism allow right-of-entry for government officials onto construction sites for inspections? If yes, note page number and paragraph number.

Yes ☒ No ☐ **G-25** Page Number **99-103** Paragraph Number

12. Does the ordinance or regulatory mechanism give the MS4 owner/operator the authority to STOP WORK in the event of non-compliance violations? If yes, note page number and paragraph number.

Yes☒ No ☐ **G-31** Page Number **99-501** Paragraph Number

13. Does the ordinance or regulatory mechanism give the MS4 owner/operator the authority to effectively prohibit the discharge of pollutants in wash waters, from washouts, in stormwater runoff and from leaks and spills? If yes, note page number and paragraph number.

Yes ☒ No ☐ **G-~~18~~19** Page Number **99-202** Paragraph Number

CONSTRUCTION SITE PLANS REVIEW

1. Does the MS4 presently have in place a technical review process with approval conditioned to meeting all requirements contained in parts 4.2.4 & 5 of the permit (i.e. engineering department, planning department, zoning board) that evaluates new development and redevelopment construction for construction site runoff?

Yes ☒ No ☐ If no, explain

2. Does the technical review process require an erosion prevention and sediment control plan to protect water quality with appropriate BMP rationale?

Yes ☒ No ☐ If no, explain

3. Does the review process include a requirement for pre-construction meeting between the MS4 and site developer, for priority construction sites, including at a minimum those construction activities discharging directly into, or immediately upstream of, waters the state recognizes as impaired or high quality?

Yes ☒ No ☐ If no, explain

4. If there is a review process, provide a brief narrative or a flow chart of the process, describing the process steps, responsible personnel qualifications (by department, title and contact person), and criteria used for evaluation of information or plans that are submitted.

Yes ☒ No ☐ If no, explain

~~**The review process starts with the Zoning Department with Hillary Austin, Zoning Administrator. Ms. Austin distributes engineering related items such as stormwater construction plans and calculations to the Stormwater Department with Rebecca Baker and Eric Larson, Stormwater Manager who coordinates with the professional engineers of record for questions and comments on the submitted design.**~~ **The review process starts with the Community Development Department. This department distributes construction plans to the Stormwater Department for review. New and redevelopment plans cannot be approved without approval by the Stormwater Department. This process is illustrated in the BMP Manual in Appendix B-1.**

RESPONDING TO PUBLIC INPUT AND COMPLAINTS

1. Does the MS4 presently have procedures in place for receipt and consideration of information and complaints submitted by the public?

Yes ☒ No ☐

If Yes, please provide a brief narrative of the receipt process and procedures, describing process steps, responsible departments, and personnel (by title). If available, provide information on complaint tracking, documentation, etc:

Before development and permit approval, the public input and complaints are received by the Community Development Department from the public calling the number on the public notice. After construction, complaints are differed to the Stormwater Utility Department which will resolve the problem by involving the necessary department, Engineering and/or Public Works. A citizen "connect" app. has been created for the public to notify the County of concerns in the area. The complaints will be tracked in a new data base.

ENFORCEMENT AND INSPECTION PROCEDURES

1. Does the MS4 presently have personnel and procedures in place for construction site runoff inspection?

Yes ☒ No ☐ If no, explain

2. Does the program provide for monthly inspection of priority sites?

Yes ☒ No ☐ If no, explain

3. Does the MS4 presently have procedures and personnel in place for enforcement to the maximum extend for violations of construction site requirements?

Yes ☒ No ☐ If no, explain-

4. Does the MS4 use a STOP WORK order to enforce non-compliance with construction site policies and requirements?

Yes ☒ No ☐ If no, explain

5. How are enforcement actions documented?

A County Stormwater CEPSCI certified employee will issue enforcement violations and violations are tracked. The County is transitioning to a new database to track inspections and enforcement more efficiently.

TRAINING AND EDUCATION

1. Does the MS4 presently make construction site runoff control training/information available to the public, developers, engineers, and contractors? (Clemson University periodically provides training through its Certified Erosion Prevention & Sediment Control Inspection (CEPSCI) course. Local governments are encouraged to refer developers and contractors to these classes.)

Yes ☒ No ☐ If no, explain

2. Has MS4 staff completed states approved training, such as the Clemson CEPSCI program? Enter the number either way

Yes ☒ If yes, how many? No ☐

5 County staff

Complete Tables 1, 2, and 3 (BMP Measurable Goals and Milestones) in the addendum of this NOI. Identify and outline measurable goals and milestones. Attach completed Section 1 tables to this NOI.

ADDENDUM

TO SMALL MS4 NPDES PERMIT NOTICE OF INTENT (SMS4-NOI)

BEST MANAGEMENT PRACTICES (BMP) MEASURABLE GOALS AND MILESTONES

These tables must be completed and attached for each of Sections 1 thru 6 of this Notice of Intent (NOI)

SECTION FOUR

TABLE 1: BMP MEASURABLE GOALS AND IMPLEMENTATION MILESTONES

	Name	DESCRIPTION
A.	Revise Stormwater Management Ordinance/ Adequate Legal Authority	Revised stormwater management ordinance, or other regulatory mechanism, to adequate and clearly state the legal authorities to meet the objectives of the construction site runoff requirements for the Stormwater Management Program. Established the legal authority to review designs and proposals for new development and redevelopment to determine whether adequate stormwater runoff control measures will be installed, implemented, and maintained during construction. Established the authority to request information such as stormwater plans, inspection reports, monitoring results, and other information deemed necessary to evaluate compliance with the Construction Site Runoff Stormwater Management Program. Established the authority to enter private and public property for the purpose of inspecting at reasonable times any facilities, equipment, practices, or operations related to construction sites with devices to control erosion and sediment control and other waste at site.
B.	Erosion and Sediment and Other Waste at the Site Control Requirements	Developed requirements for the implementation of appropriate BMPs on a construction site to control erosion and sediment and other waste at the site.
C.	Revise Plan Review Procedures	Developed plan review procedures to determine if the construction site is in compliance with erosion control requirements determined by the County. Set requirements and procedures for a pre-construction meeting and tracking of current construction activities for the County and the public.
D.	Revise Site Inspection Procedures and Penalties	Developed a BMP manual and Stormwater Ordinance to ensure that all erosion control measures meet the County's performance standards to control erosion and sediment and other waste at site. The County ~~shall~~ developed and implemented a written inspection program for construction site controls installed pursuant to the County's construction site runoff control program. The County also created a database to document and maintain records of inspections, findings and enforcement actions and make them available for review by the permitting authority.

E.	Receipt of Public Inquires	Developed procedures for receiving and consideration of public inquires, concerns, and information submitted regarding local construction activities.

TABLE 2: ADMINISTRATIVE INFORMATION	
PRIMARY CONTACT	POSITION OR TITLE
Eric Larson, PE	Stormwater Manager

OTHER DEPARTMENT	ROLE
Stormwater Regulatory	Enforcement
~~Zoning and Planning~~ Community Development	Enforcement and Development Planning
Legal	Enforcement
Building and Code Enforcement	Enforcement

BEST MANAGEMENT PRACTICES (BMPs) MEASURABLE GOALS AND IMPLEMENTATION MILESTONES (Continued)	
GOVERNMENT ENTITY	ROLE
Beaufort County SW Utility	Primary responsible party

OTHER INSTITUTION	ROLE
Carolina Clear Clemson University	Public Education and Training

EQUIPMENT NEEDS (IF APPLICABLE)
N/A

GROUP	TARGET DESCRIPTION
N/A	N/A

ADDENDUM
TO SMALL MS4 NPDES PERMIT NOTICE OF INTENT (SMS4-NOI)
BEST MANAGEMENT PRACTICES (BMP) MEASURABLE GOALS AND MILESTONES
These tables must be completed and attached for each of Sections 1 thru 6 of this Notice of Intent (NOI)

SECTION FOUR

TABLE 3: BEST MANAGEMENT PRACTICES

The purpose of this addendum is to record the measurable goals for each BMP, and the dates (month and year) by which interim actions are to be accomplished. Space is given for four BMPs for each of the six minimum measures.

Measurable goals are BMP design objectives, or goals that will quantify the progress of implementing the actions or performance of a BMP. They are ways to measure activities or effects of a BMP. For each of the six minimum measures and for each BMP, define the measurable goal you will use to monitor effectiveness of this BMP.

For each BMP, establish milestones for implementation. These tables are set up for once/year milestones. You may change the milestone dates to time frames less than one year. Also, certain BMPs - e.g., an ordinance - should be put in place within one year.

BMP A	MEASURABLE GOALS AND MILESTONES
Goals	Revised stormwater management ordinance, or other regulatory mechanism, to adequate and clearly state the legal authorities to meet the objectives of the construction site runoff requirements for the Stormwater Management Program. Established the authority to review designs and proposals for new development and redevelopment to determine whether adequate stormwater runoff control measures will be installed, implemented, and maintained during construction consistent with Section 4.2.4.5.f of SCR0300000

	Established the authority to request information such as stormwater plans, inspection reports, monitoring results, and other information deemed necessary to evaluate compliance with the Construction Site Runoff Stormwater Management Program. Established the authority to enter private and public property for the purpose of inspecting at reasonable times any facilities, equipment, practices, or operations related to construction sites with devices to control erosion and sediment control and other waste at site.
Milestone Year 1	Developed ordinance setting forth construction site runoff criteria, requiring implementation and continued maintenance of pre-construction BMPs until close out of project. The ordinance will include all necessary authorities for design review and approval, inspection, and monitoring.
Milestone Year 2	Continued implementation of ordinance setting forth construction site runoff criteria, requiring implementation and continued maintenance of pre-construction BMPs until close out of project.
Milestone Year 3	Continue implementation of ordinance setting forth construction site runoff criteria, requiring implementation and continued maintenance of pre-construction BMPs until close out of project.
Milestone Year 4	Continue implementation of ordinance setting forth construction site runoff criteria, requiring implementation and continued maintenance of pre-construction BMPs until close out of project.
Milestone Year 5	Review and reassess ordinance setting forth construction site runoff criteria, requiring implementation and continued maintenance of pre-construction BMPs until close out of project.

BMP B	MEASURABLE GOALS AND MILESTONES
Goals	Developed requirements for the implementation of appropriate BMPs on a construction site to control erosion and sediment and other waste at the site.
Milestone Year 1	Implemented construction site runoff control standards.
Milestone Year 2	Implemented construction site runoff control standards.
Milestone Year 3	Implement construction site runoff control standards.
Milestone Year 4	Continue to implement construction site runoff control standards.
Milestone Year 5	Review and reassess construction site runoff control standards.

BMP C	MEASURABLE GOALS AND MILESTONES
Goals	Developed plan review procedures to determine if the construction site is in compliance with erosion control requirements determined by the County. Set requirements and procedures for a pre-construction meeting and tracking of current construction activities for the County and the public.
Milestone Year 1	Educated County staff of construction site runoff control standards and plan requirements.
Milestone Year 2	Implemented procedures and requirements for construction site compliance, pre-construction meetings, and tracking of current construction activities for erosion and sediment control.
Milestone Year 3	Implement procedures and requirements for construction site compliance, pre-construction meetings, and tracking of current construction activities for erosion and sediment control.
Milestone Year 4	Implement procedures and requirements for construction site compliance, pre-construction meetings, and tracking of current construction activities for erosion and sediment control.
Milestone Year 5	Review and reassess procedures and requirements.

BMP D	**MEASURABLE GOALS AND MILESTONES**
Goals	Developed BMP manual and stormwater ordinance to ensure that all erosion control measures meet the County's performance standards to control erosion and sediment and other waste at site. The County shall develop and implement a written inspection program for construction site controls installed pursuant to the County's construction site runoff control program. Created database to document and maintain records of inspections, findings and enforcement actions and make them available for review by the permitting authority.
Milestone Year 1	Developed a stormwater ordinance that references a written inspection program; including issuing infractions, development of a database for tracking and inspecting pre-construction control devices, and a draft written inspection program.
Milestone Year 2	Completed stormwater ordinance and written inspection program.

Milestone Year 3	Implement the stormwater ordinance and inspection program, including to update the database with inspection records, findings and enforcement actions.
Milestone Year 4	Continue to implement the stormwater ordinance and inspection program, including to update the database with inspection records, findings and enforcement actions.
Milestone Year 5	Review and reassess the ordinance and inspection program.

BMP E	**MEASURABLE GOALS AND MILESTONES**
Goals	Developed procedures for receiving and consideration of public inquires, concerns, and information submitted regarding local construction activities.
Milestone Year 1	Developed procedures for receiving and distributing to key staff for consideration of public inquires, concerns, and information submitted regarding local construction activities.
Milestone Year 2	Completed procedures for receiving and distributing to key staff for consideration of public inquires, concerns, and information submitted regarding local construction activities.
Milestone Year 3	Implement procedures for receiving and distributing to key staff for consideration of public inquires, concerns, and information submitted regarding local construction activities.
Milestone Year 4	Continue to implement procedures for receiving and distributing to key staff for consideration of public inquires, concerns, and information submitted regarding local construction activities.
Milestone Year 5	Review and reassess procedures for receiving and distributing to key staff for consideration of public inquires, concerns, and information submitted regarding local construction activities.

SECTION 5
POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT OR PERMANENT / LONG TERM STORM WATER POLLUTION CONTROL MEASURES

POST-CONSTRUCTION STORMWATER MANAGEMENT PROGRAM

1. Will the Post-Construction Stormwater Management Program require that controls are in place to meet the site performance standards in Part 4.2.5.2 to the MEP and to protect water quality?

Yes ☒ No ☐ If no, explain

2. Does the MS4 currently have in place mechanisms or strategies to address permanent stormwater runoff management from new development or redevelopment projects that result in land disturbance of one acre or more? For example, land use planning requirements, zoning directives, site-based local controls such as riparian buffer zone protection; storage or detention of stormwater prior to release to streams; practices to cause stormwater to percolate the soil rather than runoff immediately; vegetative practices.

Yes ☒ No ☐

If Yes, please provide a brief narrative of - and/or references to - the structural and non-structural strategies, describing strategies implemented, Best Management Practices allowed, technical guidance, responsible departments, and personnel (by title).

Sections 2 and 5 of the BMP Manual states: All development that creates runoff and/or discharge may adversely impact water quality in county streams, lakes and tidal waterbodies. Therefore, all proposed development and redevelopment shall be required to submit a Drainage Plan to show compliance with the peak attenuation, water quality, volume and construction pollution control requirements in this manual

SITE PERFORMANCE STANDARDS

1. Has the permittee established, implemented and enforced a requirement that owners or operators of new development and redeveloped sites discharging to the MS4, which disturb greater than or equal to one acre (including projects that disturb less than one acre that are part of a larger common plan of development or sale), design, install, implement, and maintain stormwater control measures that maintain pre-development conditions and protect water quality to the MEP?

Yes ☒ No ☐ **BMP Manual Sect. 2-1** Page Number **Sec:.2.1.1** Paragraph Number

PERMANENT STORMWATER CONTROLS SITE MANAGEMENT ORDINANCE

1. Do you currently have an ordinance or regulatory mechanism that addresses permanent stormwater runoff management from new development and redevelopment projects? If yes, reference the page number in your ordinance. If No, proceed to the next section on permanent stormwater management plans review.

Yes ☒ No ☐ **2-1** Page Number **Sec:. 2.1.1** Paragraph Number

2. Does the ordinance or regulatory mechanism require controls to mitigate pollutants in stormwater runoff? If yes, note page number and paragraph number.

Yes ☒ No ☐ **G-14** Page Number **99-115** Paragraph Number

3. Does the ordinance or regulatory mechanism require (explicitly or implicitly) that controls be implemented for any new development or redevelopment projects greater than or equal to one acre, including projects less than one acre that are part of a large common plan of development or sale, that discharge into your small MS4? If yes, note page number and paragraph number.

Yes ☒ No ☐ **2-1** Page Number **Sec:. 2.1.1** Paragraph Number

4. Does the ordinance or regulatory mechanism contain or reference technical standards for water quality controls (e.g., design of detention basins)? If yes, note page number and paragraph number.

Yes ☒ No ☐ **2-5** Page Number **Sec:. 2.1.4** Paragraph Number

5. Does the ordinance or regulatory mechanism clearly define the criteria for submittal -who must submit - of permanent stormwater management design information or plans? If yes, note page number and paragraph number.

Yes ☒ No ☐ **2-11** Page Number **Sec:. 2.3.2** Paragraph Number

6. Does the ordinance or regulatory mechanism require approval prior to construction of permanent stormwater management controls? If yes, note page number and paragraph number.

Yes ☒ No ☐ **2-20** Page Number **Sec. 2.8.1.21** Paragraph Number

7. Does the ordinance or regulatory mechanism require re-submittal of permanent stormwater management design information or plans if site plans change after the initial design has been approved? If yes, please note page number and paragraph number.

Yes ☒ No ☐ **D-1** Page Number **Appendix D** Paragraph Number

8. Does the ordinance or regulatory mechanism give the MS4 owner/operator the authority to penalize the owner of permanent stormwater management controls for violations? If yes, note page number and paragraph number.

Yes ☒ No☐ **G-33** Page Number **99-504** Paragraph Number

9. Does the ordinance or regulatory mechanism allow the MS4 right-of-entry on property where permanent stormwater management controls are installed for inspections? If yes, please note page number and paragraph number.

Yes ☒ No ☐ **G-6** Page Number **99-104** Paragraph Number

10. Does the ordinance or regulatory mechanism require that permanent stormwater management controls have adequate and long-term operation and maintenance? If yes, please note page number and paragraph number. If no, how does the MS4 owner/operator maintain permanent stormwater management controls?

Yes ☒
No ☐

Appendix G 99-103 Page G-5 and G-6

11. Does the ordinance or regulatory mechanism require establishment and maintenance of water quality buffers in areas of new development and redevelopment?

Yes ☒ **Appendix G Sec:. 99-300 Page G-25** No ☐ If no, explain

PERMANENT STORMWATER MANAGEMENT PLANS REVIEW

1. Does the MS4 presently have in place a technical review process (i.e. engineering department, planning department, zoning board) that evaluates new development and redevelopment with regard to the impact that permanent stormwater runoff will have on receiving streams? Plan review must specifically address site performance standards and ensure long term maintenance.

Yes ☒ No ☐

If Yes, provide a brief narrative or a flow chart of the review process, describing the process steps, responsible personnel (by department, title and contact person), and criteria used for evaluation of information or plans that are submitted.

The review process starts with the Community Development Department with Hillary Austin, Zoning Administrator. Ms. Austin distributes engineering related items such as stormwater construction plans and calculations to the Stormwater Department with Rebecca Baker, MS4 Coordinator who coordinates with the professional engineer of record for questions and comments on the submitted design.

2. Does the MS4 presently have in place a requirement for submittal of 'as-built' certifications at project completion to ensure that site performance standards and long term maintenance requirements are met?.

Yes ☒ No ☐ If no, explain

3. Does the MS4 presently include measures for effective water quality protection in its watersheds?

Yes ☒ No ☐ If no, explain

4. Does the MS4 track Post-Construction Stormwater Control measures?.

Yes ☒ No ☐ If no, explain

5. Does the MS4 conduct inspection of permanent storm water controls and document all findings and enforcement actions?

Yes ☒ No ☐ If no, explain

Complete Tables 1, 2, and 3 (BMP Measurable Goals and Milestones) in the addendum of this NOI. Identify and outline measurable goals and milestones. Attach completed Section 1 tables to this NOI.

ADDENDUM

TO SMALL MS4 NPDES PERMIT NOTICE OF INTENT (SMS4-NOI)

BEST MANAGEMENT PRACTICES (BMP) MEASURABLE GOALS AND MILESTONES

These tables must be completed and attached for each of Sections 1 thru 6 of this Notice of Intent (NOI)

SECTION FIVE

TABLE 1: BMP MEASURABLE GOALS AND IMPLEMENTATION MILESTONES

	Name	DESCRIPTION
A.	Adequate legal authorities	Maintain through an ordinance, or other regulatory mechanism, adequate legal authorities to meet the objectives of the Post-Construction Site Runoff Controls program. Establish the authority to review designs and proposals for new development and redevelopment to determine whether adequate stormwater control measures will be installed, implemented, and maintained. Establish the authority to request information such as stormwater plans, inspection reports, monitoring results, and other information deemed necessary to evaluate compliance with the Post-Construction Stormwater Management Program. Establish the authority to enter private property for the purpose of inspecting at reasonable times any facilities, equipment, practices, or operations related to stormwater discharges to determine whether there is compliance the Post-Construction Stormwater Management Program.
B.	Determine BMPs	Review and revise (as necessary) the current Beaufort County Stormwater Manual to include the latest BMPs (non-structural, structural, infiltration, and vegetation).
C.	Plan reviews	Conduct site plan reviews of all new development and redeveloped sites that disturb greater than or equal to one acre (including sites that disturb less than one acre that are part of a larger common plan of development or sale). The site plan review shall address how the project applicant meets the performance standards and how the project will ensure long-term maintenance.
D.	Provide a mechanism to require long-term operation and maintenance of structural BMPs	Implement or require an operation and maintenance plan for the long-term operation of the structural BMPs required by the program. The operation and maintenance plan shall require the owner of each structural BMP to perform and maintain a record of annual inspections of each structural BMP. Annual inspection of permitted structural BMPs shall be performed by a qualified professional.
E.	Inspections of Structural Stormwater Control Measures	To ensure that all stormwater control measures meet the County's performance standards and are being maintained pursuant to the maintenance agreement, the County shall develop and implement a written inspection program for structural stormwater controls installed pursuant to the County's post-construction program for all public and privately owned stormwater control measures with the County. Document and maintain records of inspections, findings and enforcement actions and make them available for review by the permitting authority. Maintain a GIS based inventory of all Post-Construction Stormwater Control Measures.
F.	Enforcement	Track the issuance of notices of violation and enforcement actions. This mechanism shall include the ability to identify chronic violators for initiation of actions to reduce noncompliance.

TABLE 2: ADMINISTRATIVE INFORMATION

PRIMARY CONTACT	POSITION OR TITLE
Eric Larson, PE	Stormwater Manager

OTHER DEPARTMENT	ROLE
Community Development Department	Ordinance assistance
Legal	Ordinance assistance

Building and Code Enforcement	Ordinance assistance and enforcement

BEST MANAGEMENT PRACTICES (BMPs) MEASURABLE GOALS AND IMPLEMENTATION MILESTONES (Continued)	
GOVERNMENT ENTITY	ROLE
Beaufort County SW Utility	Primary responsible party

OTHER INSTITUTION	ROLE
Carolina Clear/Clemson University	Training assistance

EQUIPMENT NEEDS (IF APPLICABLE)
N/A

GROUP	TARGET DESCRIPTION
N/A	N/A

ADDENDUM
TO SMALL MS4 NPDES PERMIT NOTICE OF INTENT (SMS4-NOI)
BEST MANAGEMENT PRACTICES (BMP) MEASURABLE GOALS AND MILESTONES
These tables must be completed and attached for each of Sections 1 thru 6 of this Notice of Intent (NOI)

SECTION FIVE

TABLE 3: BEST MANAGEMENT PRACTICES

The purpose of this addendum is to record the measurable goals for each BMP, and the dates (month and year) by which interim actions are to be accomplished. Space is given for four BMPs for each of the six minimum measures.

Measurable goals are BMP design objectives, or goals that will quantify the progress of implementing the actions or performance of a BMP. They are ways to measure activities or effects of a BMP. For each of the six minimum measures and for each BMP, define the measurable goal you will use to monitor effectiveness of this BMP.

For each BMP, establish milestones for implementation. These tables are set up for once/year milestones. You may change the milestone dates to time frames less than one year. Also, certain BMPs - e.g., an ordinance - should be put in place within one year.

BMP A	MEASURABLE GOALS AND MILESTONES
Goals	Maintain through an ordinance, or other regulatory mechanism, adequate legal authorities to meet the objectives of the Post-Construction Site Runoff Controls program. The County shall have the authority to review designs and proposals for new development and redevelopment to determine whether adequate stormwater control measures will be installed, implemented, and maintained. The County shall have the authority to request information such as stormwater plans, inspection reports, monitoring results, and other information deemed necessary to evaluate compliance with the Post-Construction Stormwater Management Program. The County shall have the authority to enter private property for the purpose of inspecting at reasonable times any facilities, equipment, practices, or operations related to stormwater discharges to determine whether there is compliance the Post-Construction Stormwater Management Program.
Milestone Year 1	Developed ordinance setting forth design criteria, requiring implementation and continued maintenance of post-construction BMPs. The ordinance will include all necessary authorities for design review and approval, inspection, and monitoring.

Milestone Year 2	Implemented ordinance setting forth design criteria, requiring implementation and continued maintenance of post-construction BMPs.
Milestone Year 3	Continue Implementation ordinance setting forth design criteria, requiring implementation and continued maintenance of post-construction BMPs.
Milestone Year 4	Continue implementation of ordinance setting forth design criteria, requiring implementation and continued maintenance of post-construction BMPs.
Milestone Year 5	Review and reassess ordinance setting forth design criteria, requiring implementation and continued maintenance of post-construction BMPs.

BMP B	MEASURABLE GOALS AND MILESTONES
Goals	Review and revise (as necessary) the current Beaufort County Stormwater BMP Manual to include the latest BMPs (non-structural, structural, infiltration, and vegetation).
Milestone Year 1	Completed review and updates of the Beaufort County Stormwater BMP Manual as necessary to implement desired BMPs. Beaufort County Stormwater BMP Manual.
Milestone Year 2	Implemented the Beaufort County Stormwater BMP Manual. Began additional maintenance revisions to the BMP manual as needs were identified through implementation.
Milestone Year 3	Continue to implement the Beaufort County Stormwater BMP Manual.
Milestone Year 4	Continue to implement the Beaufort County Stormwater BMP Manual.
Milestone Year 5	Review and reassess the Beaufort County Stormwater BMP Manual.

BMP C	MEASURABLE GOALS AND MILESTONES
Goals	The County shall conduct site plan reviews of all new development and redeveloped sites that disturb greater than or equal to one acre (including sites that disturb less than one acre that are part of a larger common plan of development). The site plan review shall address how the project applicant meets the performance standards and how the project will ensure long-term maintenance.
Milestone Year 1	Complete plans review process and procedures in conjunction with developing the stormwater ordinance. Redefined the plans review process and procedures in conjunction with developing the stormwater ordinance, including review and clearly stating criteria for stormwater treatment and design standards.
Milestone Year 2	Implemented plans review process and procedures. Reviewed 113 plans and worked with designers and engineers of record to meet requirements.
Milestone Year 3	Continue to implement plans review process and procedures.
Milestone Year 4	Continue to implement the plans review process and procedures.
Milestone Year 5	Review and reassess the plans review process and procedures.

BMP D	**MEASURABLE GOALS AND MILESTONES**
Goals	The County shall implement or require an operation and maintenance plan for the long-term operation of the structural BMPs required by the program. The operation and maintenance plan shall require the owner of each structural BMP to perform and maintain a record of annual inspections of each structural BMP. Annual inspection of permitted structural BMPs shall be performed by a qualified professional.
Milestone Year 1	Developed procedures to require an operation and maintenance plan for the long-term operation of the structural BMPs required by the program. Completed procedures to require an operation and maintenance plan for the long-term operation of the structural BMPs required by the program. Made available stormwater control measure (SCM) maintenance plan templates.
Milestone Year 2	Educated SCM operators of maintenance plan requirements. Recorded maintenance agreements and issued a County Stormwater permit in order to schedule annual inspections. The County requires a maintenance plan for each SCM and enters the appropriate data into SCM database.
Milestone Year 3	Continue to implement maintenance plan for each SCM and enter appropriate data into SCM database
Milestone Year 4	Continue to implement maintenance plan for each SCM and enter appropriate data into SCM database.
Milestone Year 5	Complete maintenance plan for all current SCMs and enter appropriate data into SCM database.

BMP E	MEASURABLE GOALS AND MILESTONES
Goals	To ensure that all stormwater control measures meet the County's performance standards and are being maintained pursuant to the maintenance agreement, the County shall develop and implement a written inspection program for structural stormwater controls installed pursuant to the County's post-construction program. The County shall document and maintain records of inspections, findings and enforcement actions and make them available for review by the permitting authority.
Milestone Year 1	Created a written inspection program and start to develop stormwater ordinance that references the written inspection program. Begin to setup database for tracking and inspecting post-construction stormwater control measures.
Milestone Year 2	Completed the written inspection program and stormwater ordinance that references the written inspection program. Completed the setup of a database for tracking and inspecting post-construction stormwater control measures.
Milestone Year 3	Implement routine inspections.
Milestone Year 4	Continue to implement routine inspections.
Milestone Year 5	Complete inspection of every post-construction SCM and documented inspections, findings and enforcement actions in the database.
BMP F	MEASURABLE GOALS AND MILESTONES
Goals	Track the issuance of notices of violation and enforcement actions. This mechanism shall include the ability to identify chronic violators for initiation of actions to reduce noncompliance.
Milestone Year 1	Developed procedures and database for tracking post-construction stormwater control measures violations.
Milestone Year 2	Identified and input SCMs violations in database. Completed procedures and database for tracking post-construction stormwater control measures violations.
Milestone Year 3	Continue to identify and input SCMs violations in database.
Milestone Year 4	Continue to identify and input SCMs violations in database.
Milestone Year 5	Complete inventory of county-wide inspections of current SCMs and corresponding violation(s).

SECTION 6
POLLUTION PREVENTION / GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

MUNICIPAL FACILITIES AND STORMWATER CONTROL INVENTORY

1. Has the MS4 owner/operator obtained a SC Industrial Stormwater General Permit coverage or a no-exposure waiver for all qualifying municipal industrial activities? If yes, please give permit numbers or copy of the No-Exposure Certification form. .

Yes ☒ No ☐

Mosq. Control	Hilton Head Airport	Lady's Island Airport	Permit Numbers(s)
SCG160002	SCR002271	SCR001962	

2. List municipally-owned or operated facilities that have a notable potential for contaminating runoff: for example - vehicle maintenance garages; waste transfer operations; golf courses; salt or other materials storage; landfill. If more than one facility for a given type of operation; give the number of such facilities. Indicate if any of these are covered by an NPDES permit. Is there a documented pollution prevention plan in place for these facilities?

Notable Potential for Pollution (Y/N)	Priority (H/M/L)	FACILITY OR TYPE OF OPERATION	POLLUTANT OF CONCERN	STREET ADDRESS	TYPE_USE	AUDITED IN PERMIT YR (Y/N)	Activity Covered by NPDES Permit? (Y/N)	Is a Pollution Prevention Plan in Effect? (Y/N)
Y	L	HILTON HEAD AIRPORT TERMINAL	Fuel	120 BEACH CITY RD	Airport	Y	Y	Y
Y	L	LI AIRPORT TERMINAL	Fuel	237 SEA ISLAND PKWY	Airport	Y	Y	Y
Y	L	LI AIRPORT HANGARS	Fuel, Chemicals	237 SEA ISLAND PKWY	Airport	Y	Y	Y
Y	L	LI AIRPORT T-HANGER	Fuels, Chemicals	237 SEA ISLAND PKWY	Airport	Y	Y	Y
Y	L	ARTHUR HORNE BUILDING	Generator Fuel	104 RIBAUT RD	County Administration	N	N	N
Y	L	BIV BLDG 3	Generator	102 INDUSTRIAL VILLAGE RD	County Administration	N	N	N
Y	L	CORONER	Generator	1804 OLD SHELL RD	County Administration	N	N	N
Y	L	DSN OFFICE	Generator	1 WASTEWATER WAY	County Administration	N	N	N
Y	L	COUNTY DETENTION CENTER	Generator	106 RIBAUT RD	Detention Center	N	N	N
Y	H	BIG ESTATE DOC BLDG	Solid Waste	63 BIG ESTATE RD	Drop Off Center	Y	N	N
Y	H	BLUFFTON DOC BLDG	Solid Waste	104 SIMMONSVILLE RD	Drop Off Center	Y	N	N
Y	H	COFFIN PT DOC BLDG	Solid Waste	20 CEE CEE RD	Drop Off Center	Y	N	N
Y	H	CUFFY DOC BLDG	Solid Waste	138 CUFFY RD	Drop Off Center	Y	N	N
Y	H	DAUFUSKIE ISLAND DOC	Solid Waste	186 HAIG POINT RD	Drop Off Center	Y	N	N
Y	H	HILTON HEAD DOC	Solid Waste	26 Summit Drive	Drop Off Center	Y	N	N
Y	H	GATES DOC BLDG	Solid Waste	316 CASTLE ROCK RD	Drop Off Center	Y	N	N
Y	H	LOBECO DOC BLDG	Solid Waste	6 KEANS NECK RD	Drop Off Center	Y	N	N
Y	H	PRITCHARDVILLE DOC BLDG	Solid Waste	54 GIBBET RD	Drop Off Center	Y	N	N
Y	H	SHANKLIN RD DOC BLDG	Solid Waste	94 SHANKLIN RD	Drop Off Center	Y	N	N
Y	H	SHELDON DOC BLDG	Solid Waste	208 PAIGE POINT RD	Drop Off Center	Y	N	N
Y	H	STHEL DOC ATTENDANT BLDG	Solid Waste	639 SEA ISLAND PKY	Drop Off Center	Y	N	N
Y	H	STHEL DOC STORAGE SHLTR	Solid Waste	639 SEA ISLAND PKY	Drop Off Center	Y	N	N
Y	H	STHEL DOC TIRE/OIL SHLTR	Solid Waste	639 SEA ISLAND PKY	Drop Off Center	Y	N	N
Y	L	EMS-1 (EMS HEADQUARTERS)	Generator	2727 DEPOT RD	EMS	N	N	N
Y	M	LI FIRE DISTRICT 1 (SHERIFF HELICOPTER)		146 LADYS ISLAND DR	Fire Department	N	N	N
Y	L	ST HELENA LIBRARY	Generator	6355 JONATHAN FRANCIS SR DR	Library	N	N	N
Y	H	PUBLIC WORKS FUEL STATION	Fuel	94 SHANKLIN RD	Miscellaneous	Y	N	N
Y	L	BASIL GREEN COMPLEX – Maintenance Shed	Herbicide, Fuel	1500 RODGERS ST	PALS	N	N	N
Y	L	BATTERY CREEK INDOOR POOL	Chemicals	1 BLUE DOLPHIN DR	PALS	N	N	N
Y	L	BEAUFORT INDOOR POOL	Chemicals	84A SEA ISLAND PKWY	PALS	N	N	N
Y	L	BLUFFTON POOL	Chemicals	200 BURNT CHURCH RD	PALS	N	N	N
Y	L	BURTON WELLS REC CENTER	Generator	1 MIDDLETON RECREATION DR	PALS	N	N	N
Y	L	CHARLES "LIND" BROWN POOL	Chemicals	1710 GREENE ST	PALS	N	N	N
Y	M	CROSSINGS PARK	Maintenance Shed, Fuel	6 HAIG POINT CIR	PALS	N	N	N
Y	M	LADYS ISLAND PARK - BALL FIELDS	Fuel	20 SPRINGFIELD RD	PALS	N	N	N
Y	L	BCSO	Generator	2001 DUKE ST	Police	N	N	N
Y	M	ANIMAL SHELTER CLINIC	Animal Waste, Cleaners	23 SHELTER CHURCH RD	Public Place	N	N	N
Y	M	ANIMAL SHELTER OFFICE BLDG	Animal Waste, Cleaners	23 SHELTER CHURCH RD	Public Place	N	N	N
Y	M	CAT SHELTER BLDG	Animal Waste, Chemicals	23 SHELTER CHURCH RD	Public Place	N	N	N
Y	H	LRTA	Fuel	25 BENTON FIELD RD	Public Service	Y	N	N

Y	L	MOSQUITO CONTROL OFFICE	Chemicals	84 SHANKLIN RD	Public Service	Y	N	N
Y	H	PUBLIC WORKS MAINTENANCE BLDG	Fuel, Oil	120 SHANKLIN RD	Public Service	Y	N	N
Y	H	PUBLIC WORKS SOUTH	Fuel, Oil	9 BENTON FIELD RD	Public Service	Y	N	N

In addition to considering industrial-type operations, you must also consider municipal infrastructure, and related maintenance activities, maintenance schedules and long-term inspection procedures for structural controls and the proper disposal of waste from storm sewers/catch basins, etc. Also included in this program area is discharge of pollutants from roads and parking lots. See Part 4.2.6.1

MUNICIPAL OPERATIONS POLLUTION PREVENTION

1. Does the MS4's operations and maintenance program have policies and procedures in place that address pollution prevention? If yes, please describe procedures. Consider the following in your response: Municipally owned or operated facility assessment (4.2.6.2), Facility specific stormwater management SOP and facility stormwater controls (4.2.6.3), Storm sewer system maintenance activities-MS4 Maintenance (4.2.6.4), Flood management projects, (4.2.6.5), Pesticide, herbicide and fertilizer application and management in landscape maintenance (4.2.6.6). You may want to incorporate maintenance activities, maintenance schedules; long term inspection procedures for structural and non-structural stormwater controls to reduce floatables and other pollutants; controls for reducing or eliminating the discharge of pollutants from streets, roads, highways; controls for reducing or eliminating pollutants from municipal parking lots, maintenance and storage yards, fleet or maintenance areas with outdoor storage areas, salt/sand storage areas, snow disposal areas, waste transfer stations; disposal of waste removed from storm sewers and the areas listed above; and assessment of impacts on water quality from all of the above.

Yes ☒
No ☐

If no, explain

STAFF EDUCATION AND TRAINING

1. Does the MS4's current operation and maintenance program provide annual training for staff on preventing and reducing stormwater pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance?

Yes ☒ No ☐ If no, explain

2. Are training activities documented? If yes, please describe training and method of record-keeping.

Yes ☒
No ☐

If yes, explain **All records of training are documented as part of our Public education report.**

REQUIREMENTS FOR CONTRACTORS OVERSIGHT

1. Are contractors hired by the permittee to perform municipal maintenance activities required to comply with all municipal operations control measures?

Yes ☒ No ☐ If no, explain

2. Are oversight procedures documented? If yes, please describe SOP.

Yes ☒
No ☐

While all contractors working for the County are required to comply with the County's BMP Manual, the emphasis has been placed on construction oversight to date. Activities in the next years will focus on maintenance activity oversight in addition to construction oversight.

Complete Tables 1, 2, and 3 (BMP Measurable Goals and Milestones) in the addendum of this NOI. Identify and outline measurable goals and milestones. Attach completed Section 1 tables to this NOI.

ADDENDUM

TO SMALL MS4 NPDES PERMIT NOTICE OF INTENT (SMS4-NOI)

BEST MANAGEMENT PRACTICES (BMP) MEASURABLE GOALS AND MILESTONES

These tables must be completed and attached for each of Sections 1 thru 6 of this Notice of Intent (NOI)

SECTION SIX		
TABLE 1: BMP MEASURABLE GOALS AND IMPLEMENTATION MILESTONES		
	Name	DESCRIPTION
~~A.~~	~~SPCC Plans~~	~~Develop spill prevention and control plans for County facilities.~~
A.	Facilities SWPPP Development	Identify priority facilities and develop SWPPPs, SOPs and training where needed.
B.	Training programs	Provide training program for grounds maintenance, landscaping crews, and roadway and drainage staff.
C.	Parking Lot and Street Cleaning	Prioritize and improve street and parking lot cleaning practices. ~~to reduce the amount of debris and solids in runoff~~.
~~D.~~	~~Asset Management~~	~~Asset management of facilities and high priority areas.~~

TABLE 2: ADMINISTRATIVE INFORMATION	
PRIMARY CONTACT	POSITION OR TITLE
Eric Larson, PE	Stormwater Manager
OTHER DEPARTMENT	ROLE
Public Works (includes solid waste)	~~SPCC~~ SWPPP implementation
Mosquito Control	~~SPCC~~ SWPPP implementation
Airports	~~SPCC~~ SWPPP implementation
GOVERNMENT ENTITY	ROLE
Beaufort County SW Utility	Primary responsible party
Sheriff	~~SPCC~~ SWPPP Detention Facility implementation
OTHER INSTITUTION	ROLE
N/A	N/A
EQUIPMENT NEEDS (IF APPLICABLE)	
SWPP Plans	
GROUP	TARGET DESCRIPTION
County facility staff	Staff at County facilities subject to stormwater good housekeeping measures.

ADDENDUM
TO SMALL MS4 NPDES PERMIT NOTICE OF INTENT (SMS4-NOI)
BEST MANAGEMENT PRACTICES (BMP) MEASURABLE GOALS AND MILESTONES
These tables must be completed and attached for each of Sections 1 thru 6 of this Notice of Intent (NOI)

SECTION SIX

TABLE 3: BEST MANAGEMENT PRACTICES

The purpose of this addendum is to record the measurable goals for each BMP, and the dates (month and year) by which interim actions are to be accomplished. Space is given for four BMPs for each of the six minimum measures.

Measurable goals are BMP design objectives, or goals that will quantify the progress of implementing the actions or performance of a BMP. They are ways to measure activities or effects of a BMP. For each of the six minimum measures and for each BMP, define the measurable goal you will use to monitor effectiveness of this BMP.

For each BMP, establish milestones for implementation. These tables are set up for once/year milestones. You may change the milestone dates to time frames less than one year. Also, certain BMPs - e.g., an ordinance - should be put in place within one year.

~~BMP A~~	~~MEASURABLE GOALS AND MILESTONES~~
~~Goals~~	~~SPCC Plans~~
~~Milestone Year 1~~	~~Identified list of facilities and determine high priority areas.~~
~~Milestone Year 2~~	~~Evaluate all county-owned or operated facilities to determine whether an SPCC or separate stormwater permit is necessary. Evaluate new facilities as they are obtained. SOP located in Section 6.1 of the BMP Manual~~
~~Milestone Year 3~~	~~Develop a SWPP that may be used for the identified facilities. Conduct first annual inspections.~~
~~Milestone Year 4~~	~~Continue to conduct annual inspections of facilities and high priority areas.~~
~~Milestone Year 5~~	~~Continue to conduct annual inspections of facilities and high priority areas.~~

BMP A	**MEASURABLE GOALS AND MILESTONES**
Goals	Facilities SWPPP development.
Milestone Year 1	Developed procedures for asset management of facilities and high priority areas. Facilities Management has prepared a list of facilities to determine high priority based on chemicals stored on site and potential hazardous materials.
Milestone Year 2	~~Identify high priority areas, 25% of stormwater management system.~~ Reviewed facilities list and determined high priority sites. Conducted inspections of priority facilities and began identifying SWPPP needs. Issued County SW permit to aid facility tracking.
Milestone Year 3	~~Identify high priority areas, another 25% of stormwater management system.~~ Develop SWPPPs for priority facilities. Conduct annual inspection.
Milestone Year 4	~~Identify high priority areas, another 25% of stormwater management system.~~ Begin implementation of facility SWPPPs. Conduct annual inspection.
Milestone Year 5	~~Complete identification of high priority areas, remaining 25% of stormwater management system.~~ Conduct annual inspection.

BMP B	MEASURABLE GOALS AND MILESTONES
Goals	Provide training program for grounds maintenance, landscaping crews, and roadway and drainage staff.
Milestone Year 1	
Milestone Year 2	Developed procedures for training program for grounds maintenance, landscaping crews, and roadway and drainage staff.
Milestone Year 3	Develop and conduct a pollution prevention workshop for all municipal employees responsible for grounds maintenance, landscaping crews, convenience centers, and roadway and drainage staff.
Milestone Year 4	~~Implement~~ Conduct an annual workshop for new employees and crew managers.
Milestone Year 5	Review and reassess procedures and training.

BMP C	MEASURABLE GOALS AND MILESTONES
Goals	Parking Lot and Street Cleaning
Milestone Year 1	Due to the increase in development in certain areas of the County the road inventory prioritization has not changed and the County will continue to maintain on an as needed basis. The County utilizes a contract sweeper for select routes that are swept on a quarterly basis.

Milestone Year 2	~~Quantify debris collected from street sweeping.~~ The County continued to use the contract sweeper.
Milestone Year 3	~~Achieve a determined percentage reduction in solids levels in runoff.~~ Conduct routine parking lot and street sweeping in priority areas. The County is to consider the purchase of a street sweeper and hire an operator to replace contract services.
Milestone Year 4	Continue to ~~achieve and measure determined percentage reduction in solids level in runoff~~ conduct street and parking lot sweeping in priority areas.
Milestone Year 5	Continue to ~~achieve and measure determined percentage reduction in solids level in runoff~~ conduct street and parking lot sweeping in priority areas. Assess sweeping program and priority areas.
~~BMP D~~	~~MEASURABLE GOALS AND MILESTONES~~
~~Goals~~	~~Asset management of facilities and high priority areas.~~
~~Milestone Year 1~~	~~Developed procedures for asset management of facilities and high priority areas. Facilities Management has prepared a list of facilities to determine high priority based on chemicals stored on site and potential hazardous materials.~~
~~Milestone Year 2~~	~~Identify high priority areas, 25% of stormwater management system. Reviewed facilities list and determined high priority locations. Began audits and review of SWPPPs. Identified deficiencies and needs to be improved. Issued SW Permits as needed.~~
~~Milestone Year 3~~	~~Identify high priority areas, another 25% of stormwater management system. Perform follow up facility inspections.~~
~~Milestone Year 4~~	~~Identify high priority areas, another 25% of stormwater management system.~~
~~Milestone Year 5~~	~~Complete identification of high priority areas, remaining 25% of stormwater management system.~~

Beaufort County Stormwater

Director of Environmental Engineering
Eric Larson

Stormwater Manager
Eric Larson

Admin Assistant
Melissa Allen

Public Works Director
David Wilhelm
Funded by PW

Admin Tech
Alicia McQueen

SW Utility Inspectors
Danny Polk
Daniel Brower
Meghan Graham
Vacant

Business Manager
Carolyn Wallace

MS4 Coordinator
Rebecca Baker

SW Easement Manager
Patty Wilson
Position 40% funded by SW

Stormwater Infrastructure Superintendent
Matt Rausch

Utility Locates Coordinator
Evelyn Sutton

SW Inspector Techs
Donald McKay
Vacant

Maintenance Foreman
Harold Green

Construction Foreman
Daron Allen

Outfall Shinn
1 - Crew Leader Op 3
3(2) – Maint.Tech 2
1 – Equip Operator 2

Bush Hog
1 - Crew Leader Op 2
2 – Crew Leader Op 1
3(1) – Maint.Tech 1

Roadside
1 – Crew Leader Op 3
1 – Maint.Tech 1
2 – Maint.Tech 2

Support
1 - Crew Leader Op 2
1 – Maint.Tech 2

Vacuum Truck
1 - Crew Leader Op 2
1 – Maint.Tech 1

Dump Truck Pool
6 – Equip Op 1

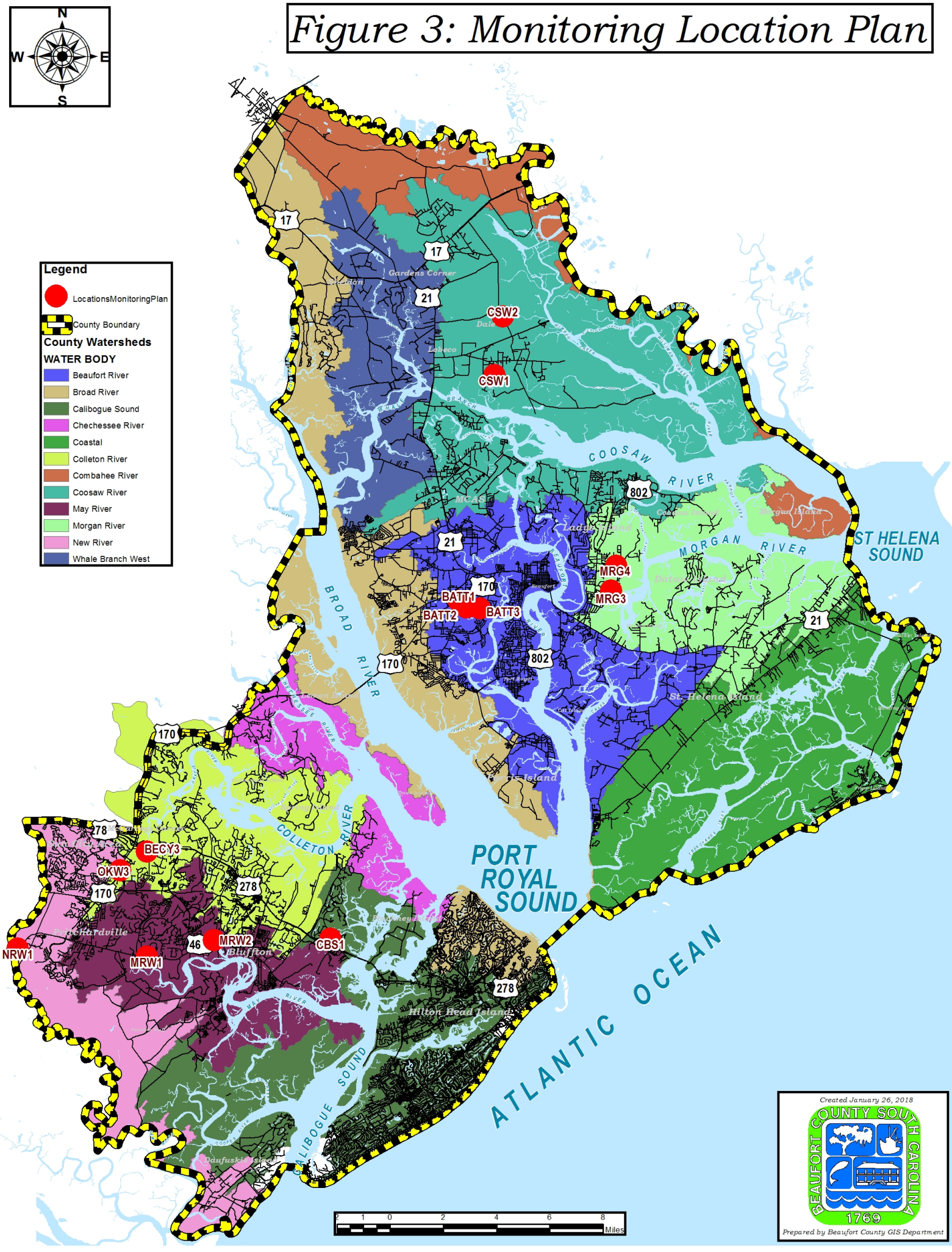
New Construction
1 – Crew Leader Op 3
1 – Maint. Tech 1
2 – Maint.Tech 2
1 – Field Grade Tech
1 – Equip Operator 2

MS4 Data Manager (GIS)
Position Funded by SW

Updated 1/26/18

( ) Indicates Vacancies Over 1

Figure 3: Monitoring Location Plan



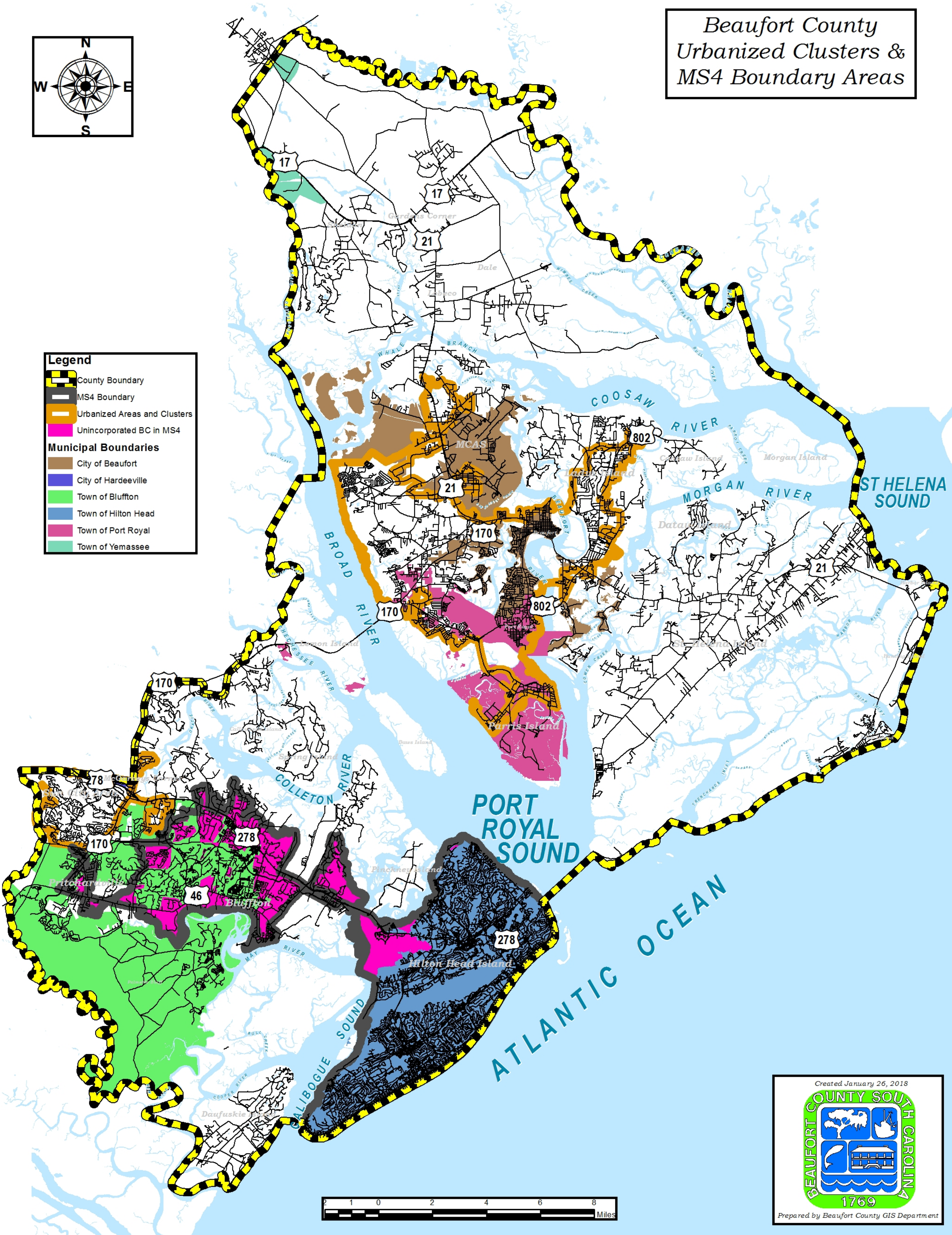
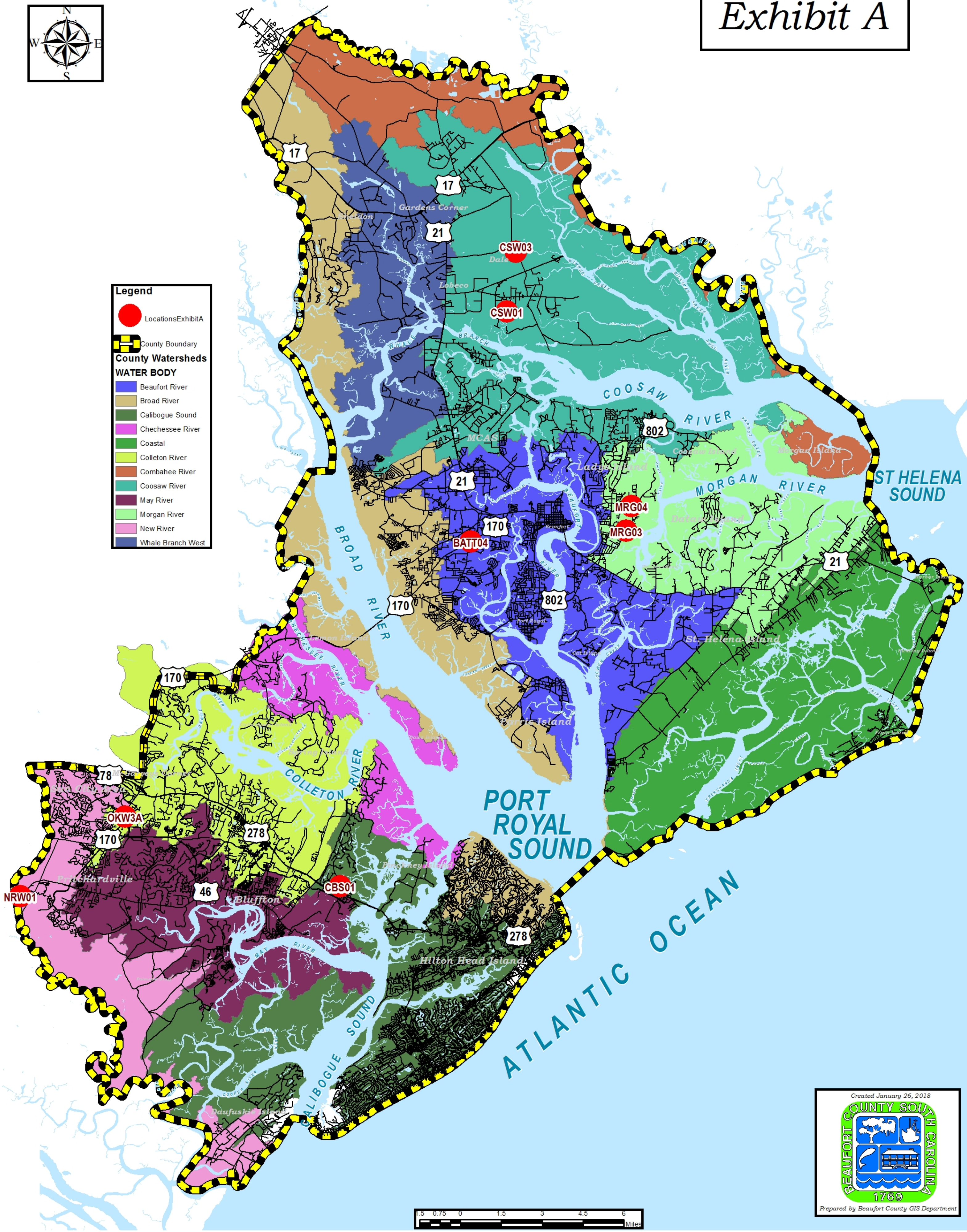
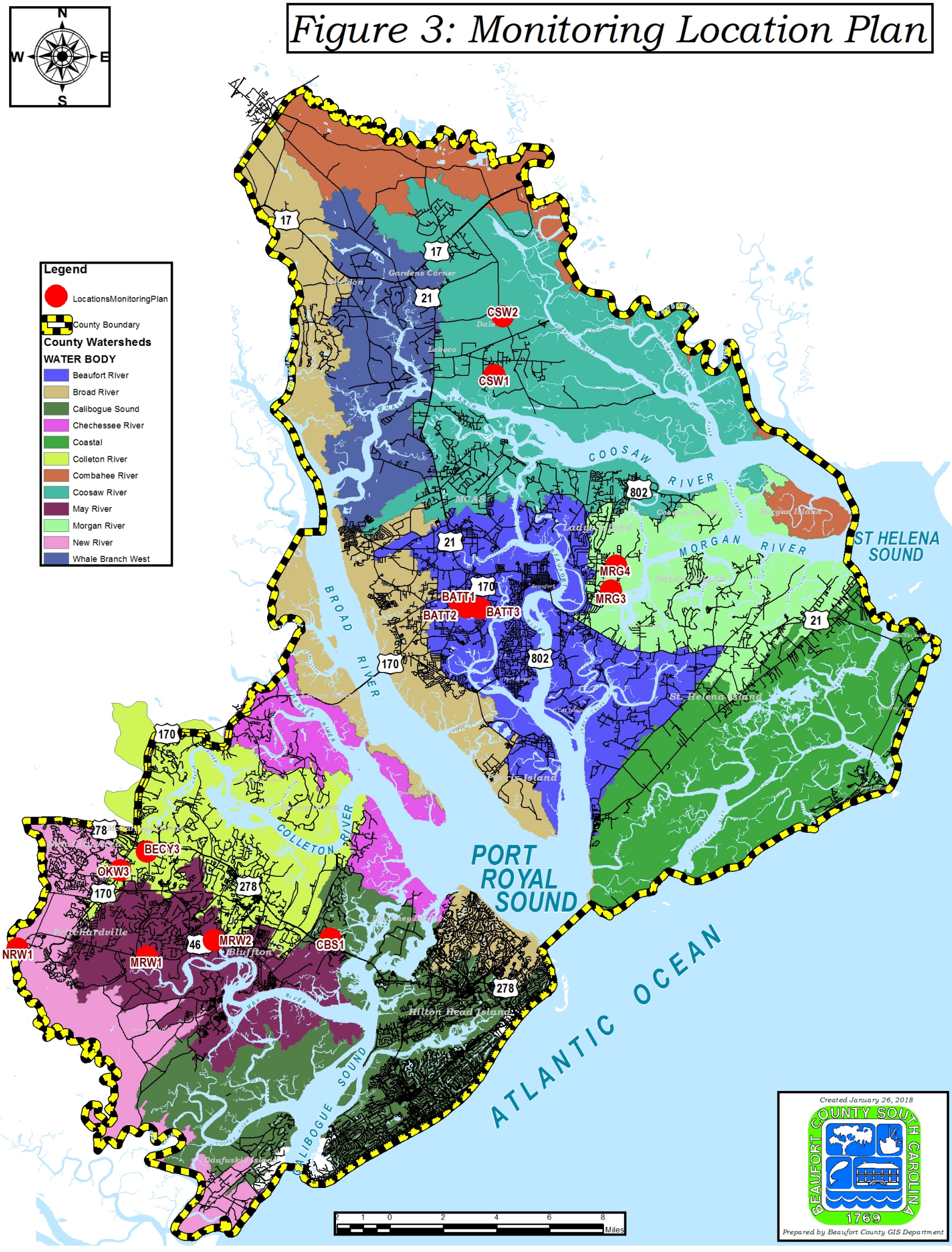

Beaufort County
Urbanized Clusters &
MS4 Boundary Areas
N
W
E
S
Legend
County Boundary
MS4 Boundary
Urbanized Areas and Clusters
Unincorporated BC in MS4
Municipal Boundaries
City of Beaufort
City of Hardeeville
Town of Bluffton
Town of Hilton Head
Town of Port Royal
Town of Yemassee
COOSAW RIVER
MORGAN RIVER
ST HELENA SOUND
BROAD RIVER
COLLETON RIVER
PORT ROYAL SOUND
ATLANTIC OCEAN
CALIBOGUE SOUND
MAY RIVER
MCAS
Parris Island
Bluffton
Hilton Head Island
17
21
170
802
278
46
Created January 26, 2018
BEAUFORT COUNTY SOUTH CAROLINA
1769
Prepared by Beaufort County GIS Department
Miles

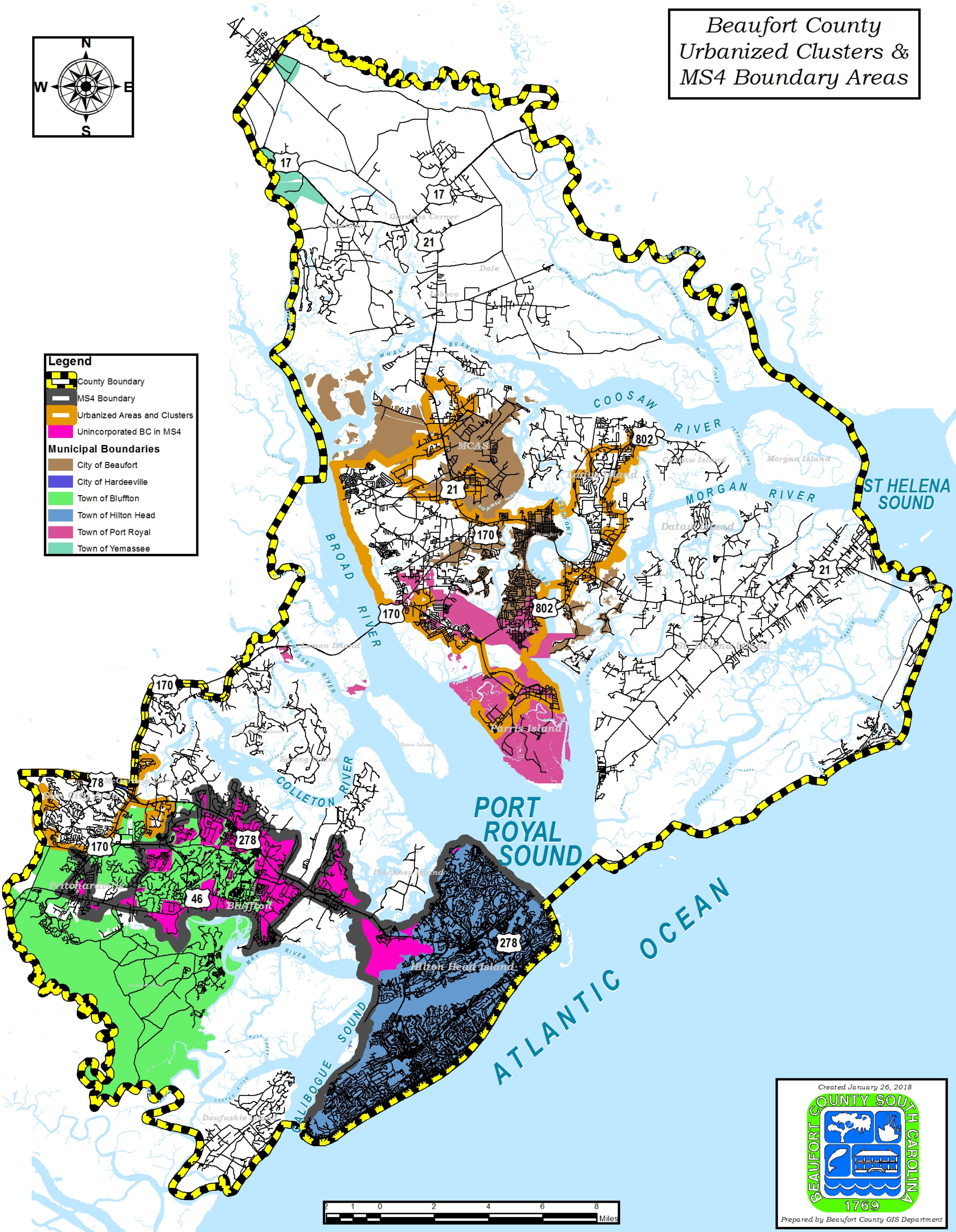
Exhibit A



Legend
LocationsExhibitA
County Boundary
County Watersheds
WATER BODY
Beaufort River
Broad River
Calibogue Sound
Chechessee River
Coastal
Colleton River
Combahee River
Coosaw River
May River
Morgan River
New River
Whale Branch West
CSW03
CSW01
MRG04
MRG03
BATT04
OKW3A
NRW01
CBS01
Gardens Corner
Lobeco
MCAS
Ladys Island
St. Helena Island
Hilton Head Island
Bluffton
Pritchardville
Daufuskie Island
COOSAW RIVER
MORGAN RIVER
ST HELENA SOUND
BROAD RIVER
COLLETON RIVER
PORT ROYAL SOUND
ATLANTIC OCEAN
CALIBOGUE SOUND
Created January 26, 2018
BEAUFORT COUNTY SOUTH CAROLINA
1769
Prepared by Beaufort County GIS Department
Miles

Figure 3: Monitoring Location Plan





Beaufort County Urbanized Clusters & MS4 Boundary Areas
N
S
W
E
Legend
County Boundary
MS4 Boundary
Urbanized Areas and Clusters
Unincorporated BC in MS4
Municipal Boundaries
City of Beaufort
City of Hardeeville
Town of Bluffton
Town of Hilton Head
Town of Port Royal
Town of Yemassee
COOSAW RIVER
MORGAN RIVER
ST HELENA SOUND
BROAD RIVER
COLLETON RIVER
PORT ROYAL SOUND
ATLANTIC OCEAN
CALIBOGUE SOUND
MCAS
Parris Island
Hilton Head Island
Bluffton
Daufuskie Island
St Helena Island
Dataw Island
Lady's Island
Morgan Island
Coosaw Island
Gardens Corner
Dale
Lobeco
17
21
170
802
278
46
Created January 26, 2018
BEAUFORT COUNTY SOUTH CAROLINA
1769
Prepared by Beaufort County GIS Department
2 1 0 2 4 6 8 Miles

SITE	1st QRT		1st Quarter Justification		2nd QRT		2nd Quarter Justification		3rd QRT		3rd Quarter Justification		4th QRT		4th Quarter Justification	
	WET	DRY	WET	DRY	WET	DRY	WET	DRY	WET	DRY	WET	DRY	WET	DRY	WET	DRY
CSW01	S/F	NS		No water	S/ND	S/ND	Opposing flow (+/-)	Water too low for flow data	S/ND	S/ND	No flow	No flow	S/ND	S/ND	No flow	No flow
CSW02[(1)]	NS	NS	Tidal Constraints	Tidal Constraints	S/ND	Obsolete	Water too low for flow data	Site deleted BC	Obsolete	Obsolete			Obsolete	Obsolete		
CSW02A[(2)]	NA	NA	Site not est. until 5/17	Site not est. until 5/17	S/ND	NA	Water too low for flow data		NA	NA			NA	NA		
CSW03	NA	NA	Site not est. until 5/17	Site not est. until 5/17	NA	S/ND		Water too low for flow data	S/ND	S/F	No access (Bridge needed)		S/ND	S/ND	Water too low for flow data	Water too low for flow data
MRG04	NS	NS	No water	No water	S/F	NS		No water	S/F	S/ND		Water too low for flow data	S/F	S/F		
MRG03	NS	S/F	Opposing flow (+/-)		S/F	S/ND		Water too low for flow data	S/F	S/ND		Water too low for flow data	S/F	S/ND		No flow
BATT04	S/F	S/F			S/F	S/F			S/F	S/F			S/F	S/ND		Water too low for flow data
OKW3[(3)]	S/F	S/F			Obsolete	Obsolete	Site deleted BC	Site deleted BC	Obsolete	Obsolete			Obsolete	Obsolete		
OKW3A	NA	NA	Site not est. until 5/17	Site not est. until 5/17	S/ND	S/ND	No flow, waiting for IQ BC	No flow, waiting for IQ BC	S/ND	S/ND	No flow, waiting for IQ BC	No flow, waiting for IQ BC	S/ND	S/ND	No flow, waiting for IQ BC	No flow, waiting for IQ BC
MRW02[(4)]	NS	S/F	No flow		S/ND	S/ND	No flow data due to snakes	Water too low for flow data	(TOB)	(TOB)			(TOB)	(TOB)		
NRW01	S/ND	S/ND	Waiting BC IQ meter	Waiting BC IQ meter	S/ND	S/ND	Waiting BC IQ meter	Waiting BC IQ meter	S/ND	S/ND	Waiting BC IQ meter	Waiting BC IQ meter	S/ND	S/ND	Waiting BC IQ meter	Waiting BC IQ meter
CBS01	NS	NS	Tidal Constraints	Tidal Constraints	S/ND	S/ND	Opposing flow (+/-)	Flow equip. Failure	S/F	S/F			S/F	S/F		

Comments:
(1) CSW02 deleted by BC 5/2017
(2) CSW02A Renamed to CSW03 by BC 5/2017
(3) OKW3 deleted by BC 5/2017
(4) MRW02 MOA to TOB effective 7/2017
S = Sample collected
F = Flow data recorded
NA = Not applicable
ND = No flow data recorded
NS = No sample collected

e.Coli	CSW01 (W)	CSW01 (D)	CSW02 (W)	CSW02 (D)	CSW02A (W)	CSW02A (D)	CSW03 (W)	CSW03 (D)	MRG04 (W)	MRG04 (D)	MRG03 (W)	MRG03 (D)	BATT04 (W)	BATT04 (D)	OKW3 (W)	OKW3 (D)	OKW3A (W)	OKW3A (D)	MRW02 (W)	MRW02 (D)	NRW01 (W)	NRW01 (D)	CBS01 (W)	CBS01 (D)
2/9/2017																					144.0			
3/8/2017												2586.0		37.5		1297.5				3244.0		750.0		
3/14/2017	479.5												150.5		2305.5									
4/4/2017	493.5		538.0		232.0				2305.5								1627.5		710.5					
4/6/2017											776.5		1936.5								2442.0		480.0	
6/5/2017												2897.0		4902.0								325.0		
6/9/2017																		600.5		128.0				286.5
6/15/2017		6498.5						7068.0																
7/25/2017	216.0						7068.0		8664.5		76.5		9931.5											
7/26/2017																	2737.5		12098.1		648.0		707.0	
8/1/2017		5.0								315.5		278.0		12098.1										
8/2/2017																		85.5		3244.0		79.0		12098.0
8/17/2017								9931.5																
9/29/2017																						123.5		
10/10/2017	1306.5						677		1538		1200		666.5				7068		466		207		666.5	
Geomean	**508.3**	**180.3**	**538.0**		**232.0**		**2187.5**	**8378.3**	**3132.0**	**315.5**	**414.6**	**1277.0**	**1178.6**	**1305.3**	**2305.5**	**1297.5**	**3157.8**	**226.6**	**1588.1**	**1104.4**	**466.0**	**220.8**	**609.3**	**1861.7**

Fecal	CSW01 (W)	CSW01 (D)	CSW02 (W)	CSW02 (D)	CSW02A (W)	CSW02A (D)	CSW03 (W)	CSW03 (D)	MRG04 (W)	MRG04 (D)	MRG03 (W)	MRG03 (D)	BATT04 (W)	BATT04 (D)	OKW3 (W)	OKW3 (D)	OKW3A (W)	OKW3A (D)	MRW02 (W)	MRW02 (D)	NRW01 (W)	NRW01 (D)	CBS01 (W)	CBS01 (D)
2/9/2017																					55.0			
3/8/2017												137.5		20.5		741.5				2737.5		611.5		
3/14/2017	494.0												54.0		1377.5									
4/4/2017	418.0		132.5		256.0				1049.0								1123.5		556.0					
4/6/2017											278.5		2305.5								1538.0		1244.5	
6/5/2017												1007.0		117.5								297.0		
6/9/2017																		269.0		141.0				100.5
6/15/2017		361.5						240.5																
7/25/2017	404.5						1179.5		12098.0		543.0		689.5				3635.0		12098.1		1306.5		306.5	
7/26/2017																								
8/1/2017		182.0								769.5		353.0		152.5										
8/2/2017																		235.5		2897.0		10.5		605.5
8/17/2017								1627.5																
9/29/2017																						93.5		
10/10/2017	4605.0						37.5		12098.1		3065.5		2305.5				12098.0		637.0		295.5		5599.5	
Geomean	**787.5**	**256.5**	**132.5**		**256.0**		**210.3**	**625.6**	**5354.7**	**769.5**	**773.9**	**365.6**	**667.0**	**71.6**	**1377.5**	**741.5**	**3669.4**	**251.7**	**1624.2**	**1037.9**	**425.1**	**115.6**	**1287.8**	**246.7**

Enterococci	NRW01 (W)	NRW01 (D)
2/9/2017	183.0	
3/8/2017		2014.0
4/6/2017	861.5	
6/5/2017		74.0
7/26/2017	402.0	
8/2/2017		52.0
9/29/2017		9.9
10/10/2017	63.0	
Geomean	**251.4**	**93.6**

NOTES:
1. All > values are recorded as the value plus one significant digit (i.e. >12098.0 = 12098.1)
2. All < values are recorded as one significant digit less than the detection limit (i.e. <10.0 = 9.9)
3. (W) Wet Sample
4. (D) Dry Sample

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	Air Temperature (^{0}C)	Water Temperature (^{0}C)	Specific Conductivity (SpC) (*m* s/cm)	DO (mg/L)	pH (H+)	Salinity (ppt)	Turbidity (NTU)	Weather Observed	Tide Stage	Flow (cfs)	Remarks	GPS Coordinates
10/10/2017	MRG03	0730	26.01	26.12	0.178	5.78	7.13	0.09	14.3	02		0.077		32.430800 -80.630610
10/10/2017	BATT04	0838	27.09	27.51	5.23	2.18	5.96	2.69	18.6	02	2000	0.214		32.424450 -80.725150
10/10/2017	OKW3A	1055	27.81	26.41	0.119	2.80	6.32	0.06	9.8	02		*	*Waiting on BC IQ	32.278760 -80.945870
10/10/2017	NRW01	1035	26.56	25.42	0.106	1.93	6.02	0.05	6.4	02	4300	*	*BC to take flow	32.236193 -81.013512
10/10/2017	MRG04	0723	26.08	25.54	1.60	5.14	6.85	0.81	6.2	02	4300	0.098		32.444164 -80.627131
10/10/2017	CSW01	0758	27.03	26.62	0.290	4.02	6.54	3.69	14.6	02		NF		32.556240 -80.693540
10/10/2017	CSW03	0808	26.83	26.41	15.86	4.84	6.72	8.98	34.1	02	2000	*	*Too low for flow	32.580105 -80.698511
10/10/2017	CBS01	0944	27.65	27.89	18.4	6.46	6.01	11.41	19.3	02	4300	0.544		32.241518 -80.811203

Notes: Further details for notes are addressed in comments section.

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L = Low Flow Observed at sample site
NW = No Water Observed at sample site
ND = No Data recorded
CLR = Clear Skies
F = Fair Weather (Partly Cloudy, no Thunderstorm/Rain event occurred in vacinity)
CLDY = Cloudy Skies
R = Rain (Thunderstorm or Continuous due to frontal system passage)

Additional Comments:
WET EVENT

Weather Code
00 = (Clear; NSW)
01 = (Fair Weather)
02 = (Cloudy Skies)
22 = (Rain/Storm)

Tide Stage	
2000 = EBB	
2100 = 1/4 Fld	
2200 = 1/2 Fld	
2300 = 3/4 Fld	
4000 = FLOOD	
4300 = 3/4 Ebb	
4200 = 1/2 Ebb	
4100 = 1/4 Ebb	

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	Biochemical Oxygen Demand (BOD5) mg/L	Chlorophyll-a (Chl-a) mg/m3	Total Kjeldahl Nitrogen (TKN) mg/L	Nitrate/Nitrite (NOx) mg/L	Total Nitrogen (TN) mg/L	Total Phosphourus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) ug/L	Metals-Lead (Pb) ug/L	Metals-Zinc (Zn) ug/L	Metals-Mercury (Hg) ug/L	Remarks
10/10/2017	MRG03	0730	<2.0	4.2	1.1	<0.050	1.1	0.19	11	<5.0	<2.5	<20		
10/10/2017	BATT04	0838	2.4	18	0.70	<0.050	0.70	<0.10	5.1	<5.0	<2.5	<20		
10/10/2017	OKW3A	1055	3.7	23	0.90	<0.050	0.93	0.15	9.6	<5.0	<2.5	<20		
10/10/2017	NRW01	1035	2.3	2.1	1.3	<0.050	1.3	0.15	12	<5.0	<2.5	<20	<0.20	
10/10/2017	MRG04	0723	<2.0	0.82	<0.20	0.13	0.32	<0.10	5.1	<5.0	<2.5	<20		
10/10/2017	CSW01	0758	2.9	9.9	1.1	<0.050	1.1	0.20	11	<5.0	<2.5	<20		
10/10/2017	CSW03	0808	<16	7.4	0.45	0.077	0.53	0.14	28	<5.0	<2.5	<20		
10/10/2017	CBS01	0944	4.0	24	0.67	<0.050	0.67	<0.10	7.1	<5.0	<2.5	<20		

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Comments:

Beaufort County
MS4-319 Monitoring
2017

Col. Date	Site ID	Col. Time	MPN E. Coli (MPN/100 mL)	MPN Fecal (MPN/100 mL)	MPN Enterococcus (MPN/100 mL)	MPN E. Coli Dilution	MPN Fecal Dilution	MPN Enterococcus Dilution	Remarks
10/10/2017	MRG03	0730	1200.0	3065.5		5	5		
10/10/2017	BATT04	0838	666.5	2305.5		5	5		
10/10/2017	OKW3A	1055	7068.0	12098.0		5	5		
10/10/2017	NRW01	1035	207.0	295.5	63.0	5	5	10	
10/10/2017	MRG04	0723	1538.0	>12098		5	5		
10/10/2017	CSW01	0758	1306.5	4605.0		5	5		
10/10/2017	CSW03	0808	677.0	37.5		5	5		
10/10/2017	CBS01	0944	666.5	5599.5		5	5		

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ND = No Data recorded

Comments:

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	Air Temperature (^{0}C)	Water Temperature (^{0}C)	Specific Conductivity (SpC) (*m* s/cm)	DO (mg/L)	pH (H+)	Salinity (ppt)	Turbidity (NTU)	Weather Observed	Tide Stage	Flow (cfs)	Remarks	GPS Coordinates
9/29/2017	MRG03	0712	24.6	25.47	0.251	0.77	5.72	0.12	3.4	00		NF		32.430800 -80.630610
9/29/2017	BATT04	0818	25.7	27.59	15.5	4.72	5.67	9.05	19.8	00	4200	*	*-Too low for flow	32.424450 -80.725150
9/29/2017	OKW3A	0945	30.2	26.54	0.108	3.04	6.46	0.05	4.8	00		*	*Waiting on BC IQ	32.278760 -80.945870
9/29/2017	NRW01	1205	40.6	25.75	0.066	1.38	5.58	0.04	7.7	00	4100	*	*BC to take flow	32.236193 -81.013512
9/29/2017	MRG04	0736	24.5	24.19	0.227	3.51	5.75	0.11	2.3	00	4100	0.068		32.444164 -80.627131
9/29/2017	CSW01	0845	24.7	5.01	0.438	1.91	7.01	0.21	30.9	00		NF		32.556240 -80.693540
9/29/2017	CSW03	0900	29.1	25.49	10.25	2.42	6.36	5.79	35.0	00	4300	*	*-Too low for flow	32.580105 -80.698511
9/29/2017	CBS01	1015	31.5	29.79	24.7	2.16	5.89	15.01	24.7	00	4300	0.097		32.241518 -80.811203

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CLDY = Cloudy Skies
R = Rain (Thunderstorm or Continuous due to frontal system passage)

Additional Comments:
DRY EVENT

Weather Code
00 = (Clear; NSW)
01 = (Fair Weather)
02 = (Cloudy Skies)
22 = (Rain/Storm)

Tide Stage	
2000 = EBB	
2100 = 1/4 Fld	
2200 = 1/2 Fld	
2300 = 3/4 Fld	
4000 = FLOOD	
4300 = 3/4 Ebb	
4200 = 1/2 Ebb	
4100 = 1/4 Ebb	

Beaufort County
MS4-319 Monitoring
2017

Col. Date	Site ID	Col. Time	MPN E. Coli (MPN/100 mL)	MPN Fecal (MPN/100 mL)	MPN Enterococcus (MPN/100 mL)	MPN E. Coli Dilution	MPN Fecal Dilution	MPN Enterococcus Dilution	Remarks
9/29/2017	MRG03	0712	319.0	629.5		5	5		
9/29/2017	BATT04	0818	959.0	688.0		5	5		
9/29/2017	OKW3A	0945	159.0	2053.0		5	5		
9/29/2017	NRW01	1205	123.5	93.5	<10	5	5	10	
9/29/2017	MRG04	0736	798.5	341.5		5	5		
9/29/2017	CSW01	0845	15.5	274.0		5	5		
9/29/2017	CSW03	0900	3244.0	808.0		5	5		
9/29/2017	CBS01	1015	4332.0	2305.5		5	5		

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Comments:

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	Biochemical Oxygen Demand (BOD5) mg/L	Chlorophyll-a (Chl-a) mg/m3	Total Kjeldahl Nitrogen (TKN) mg/L	Nitrate/Nitrite (NOx) mg/L	Total Nitrogen (TN) mg/L	Total Phosphourus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) ug/L	Metals-Lead (Pb) ug/L	Metals-Zinc (Zn) ug/L	Metals-Mercury (Hg) ug/L	Remarks
9/29/2017	MRG03	0712	<2.0	<0.50	1.6	<0.050	1.6	0.17	3.4	<5.0	<2.5	<20		
9/29/2017	BATT04	0818	2.1	5.3	1.1	0.069	1.2	0.15	11	<5.0	<2.5	<20		
9/29/2017	OKW3A	0945	2.0	3.4	0.93	0.096	1.0	0.16	4.8	28	<2.5	<20		
9/29/2017	NRW01	1205	<2.0	3.6	1.3	<0.050	1.3	0.15	10	<5.0	<2.5	<20	<0.20	
9/29/2017	MRG04	0736	<2.0	0.80	0.38	7.6	8.0	0.58	7.8	<5.0	<2.5	<20		
9/29/2017	CSW01	0845	2.6	8.5	0.43	890	890	0.96	24	<5.0	<2.5	<20		
9/29/2017	CSW03	0900	<2.0	17	1.7	0.050	1.8	0.42	42	<5.0	<2.5	<20		
9/29/2017	CBS01	1015	<2.0	6.0	1.2	0.090	1.3	0.27	41	<5.0	<2.5	<20		

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Comments:

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	Air Temperature (^{0}C)	Water Temperature (^{0}C)	Specific Conductivity (SpC) (*m* s/cm)	DO (mg/L)	pH (H+)	Salinity (ppt)	Turbidity (NTU)	Weather Observed	Tide Stage	Flow (cfs)	Remarks	GPS Coordinates
8/17/2017	MRG03	NS												32.430800 -80.630610
8/17/2017	BATT04	NS												32.424450 -80.725150
8/17/2017	OKW3A	NS												32.278760 -80.945870
8/17/2017	NRW01	NS												32.236193 -81.013512
8/17/2017	MRG04	NS												32.444164 -80.627131
8/17/2017	CSW01	NS												32.556240 -80.693540
8/17/2017	CSW03	1000	32.2	29.48	17.6	4.79	6.49	10.41	41.4	00	4200	1.29		32.580105 -80.698511
8/17/2017	CBS01	NS												32.241518 -80.811203

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Additional Comments:
DRY EVENT

Weather Code
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Tide Stage	
2000 = EBB	
2100 = 1/4 Fld	
2200 = 1/2 Fld	
2300 = 3/4 Fld	
4000 = FLOOD	
4300 = 3/4 Ebb	
4200 = 1/2 Ebb	
4100 = 1/4 Ebb	

Beaufort County
MS4-319 Monitoring
2017

Col. Date	Site ID	Col. Time	MPN E. Coli (MPN/100 mL)	MPN Fecal (MPN/100 mL)	MPN Enterococcus (MPN/100 mL)	MPN E. Coli Dilution	MPN Fecal Dilution	MPN Enterococcus Dilution	Remarks
8/17/2017	MRG03	NS							
8/17/2017	BATT04	NS							
8/17/2017	OKW3A	NS							
8/17/2017	NRW01	NS							
8/17/2017	MRG04	NS							
8/17/2017	CSW01	NS							
8/17/2017	CSW03	1000	9931.5	1627.5		5	5		
8/17/2017	CBS01	NS							

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Comments:

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	Biochemical Oxygen Demand (BOD5) mg/L	Chlorophyll-a (Chl-a) mg/m3	Total Kjeldahl Nitrogen (TKN) mg/L	Nitrate/Nitrite (NOx) mg/L	Total Nitrogen (TN) mg/L	Total Phosphourus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) ug/L	Metals-Lead (Pb) ug/L	Metals-Zinc (Zn) ug/L	Metals-Mercury (Hg) ug/L	Remarks
8/17/2017	MRG03	NS												
8/17/2017	BATT04	NS												
8/17/2017	OKW3A	NS												
8/17/2017	NRW01	NS												
8/17/2017	MRG04	NS												
8/17/2017	CSW01	NS												
8/17/2017	CSW03	1000	4.7	92	1.8	<0.050	1.8	0.53	17	<5.0	<2.5	<20		
8/17/2017	CBS01	NS												

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Comments:

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	Air Temperature (^{0}C)	Water Temperature (^{0}C)	Specific Conductivity (SpC) (*m* s/cm)	DO (mg/L)	pH (H+)	Salinity (ppt)	Turbidity (NTU)	Weather Observed	Tide Stage	Flow (cfs)	Remarks	GPS Coordinates
7/25/2017	MRG03	1330	30.50	27.80	0.082	6.29	7.19	0.04	5.6	00	4200	0.232		32.430800 -80.630610
7/25/2017	BATT04	1100	25.90	29.52	6.79	3.61	6.26	3.72	21.8	02	4100	0.144		32.424450 -80.725150
7/26/2017	OKW3A	0926	26.40	25.56	0.109	2.15	6.41	0.06	11.7	02	NA		Awaiting BC IQ install decision	32.278760 -80.945870
7/26/2017	MRR02	NS											*2 TOB to collect as of 7/1/17	32.240785 -80.885964
7/26/2017	NRW01	0901	26.13	25.35	0.077	2.40	5.79	0.04	6.8	22	4100		Awaiting BC IQ install decision	32.236193 -81.013512
7/25/2017	MRG04	1315	30.50	27.28	0.223	2.44	6.30	0.11	7.3	00	NA	0.130		32.444164 -80.627131
7/25/2017	CSW01	1130	26.30	27.81	7.300	3.87	6.77	4.02	11.8	01	NA	NF		32.556240 -80.693540
7/25/2017	CSW03	1142	27.50	28.69	16.2	4.56	6.70	9.57	42.0	01	4100	*1		32.580105 -80.698511
7/26/2017	CBS01	1032	28.33	29.31	18.4	6.31	5.79	10.93	20.4	22	4100	0.726		32.241518 -80.811203

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Additional Comments:

WET EVENT North of Broad Rvr = 1.90", South of Broad = 0.80"
* 1 CWS03 bridge not completed for this event.
*2 MRR02: TOB to collect as per agreement between BC/TOB in effect 7/1/17.

Weather Code
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Tide Stage	
2000 = EBB	
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2200 = 1/2 Fld	
2300 = 3/4 Fld	
4000 = FLOOD	
4300 = 3/4 Ebb	
4200 = 1/2 Ebb	
4100 = 1/4 Ebb	

Beaufort County
MS4-319 Monitoring
2017

Col. Date	Site ID	Col. Time	MPN E. Coli (MPN/100 mL)	MPN Fecal (MPN/100 mL)	MPN Enterococcus (MPN/100 mL)	MPN E. Coli Dilution	MPN Fecal Dilution	MPN Enterococcus Dilution	Remarks
7/25/2017	MRG03	1330	76.5	543.0		5	5		
7/25/2017	BATT04	1100	9931.5	689.5		5	5		
7/26/2017	OKW3A	0926	2737.5	3635.0		5	5		
7/26/2017	MRR02	1010	>12098	>12098		5	5		
7/26/2017	NRW01	0901	648.0	1306.5	402.0	5	5	10	
7/25/2017	MRG04	1315	8664.5	12098.0		5	5		
7/25/2017	CSW01	1130	216.0	404.5		5	5		
7/25/2017	CSW03	1142	7068.0	1179.5		5	5		
7/26/2017	CBS01	1032	707.0	306.5		5	5		

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Comments:

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	Biochemical Oxygen Demand (BOD5) mg/L	Chlorophyll-a (Chl-a) mg/m3	Total Kjeldahl Nitrogen (TKN) mg/L	Nitrate/Nitrite (NOx) mg/L	Total Nitrogen (TN) mg/L	Total Phosphourus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) ug/L	Metals-Lead (Pb) ug/L	Metals-Zinc (Zn) ug/L	Metals-Mercury (Hg) ug/L	Remarks
7/25/2017	MRG03	1330	2.0	5.9	0.30	<0.050	0.33	<0.10	4.0	<5.0	<2.5	<20		
7/25/2017	BATT04	1100	4.2	49	0.89	<0.050	0.91	0.13	12	<5.0	<2.5	<20		
7/26/2017	OKW3A	0926	8.6	18	1.2	0.066	1.3	0.13	11	<5.0	<2.5	<20		
7/26/2017	MRR02	1010	3.2	15	1.5	0.060	1.6	1.1	46	<5.0	<2.5	<20		
7/26/2017	NRW01	0901	3.3	1.2	1.4	<.0.050	1.4	0.11	8.0	<5.0	<2.5	<20	<0.20	
7/25/2017	MRG04	1315	4.6	11	1.3	0.054	1.4	0.15	3.3	<5.0	<2.5	<20		
7/25/2017	CSW01	1130	2.8	9.0	1.2	<0.050	1.2	0.29	10	<5.0	<2.5	<20		
7/25/2017	CSW03	1142	2.6	19	1.6	0.076	1.7	0.30	42	<5.0	<2.5	<20		
7/26/2017	CBS01	1032	2.4	17	0.79	<0.050	0.79	0.39	15	<5.0	<2.5	<20		

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Comments:

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	Air Temperature (^{0}C)	Water Temperature (^{0}C)	Specific Conductivity (SpC) (*m* s/cm)	DO (mg/L)	pH (H+)	Salinity (ppt)	Turbidity (NTU)	Weather Observed	Tide Stage	Flow (cfs)	Remarks	GPS Coordinates
6/9/2017	MRG03	NS												32.430800 -80.630610
6/9/2017	BATT04	NS												32.424450 -80.725150
6/9/2017	OKW3A	1115	28.2	24.15	0.121	5.60	7.52	0.06	15.5	00	NA	ND	Waiting for IQ	32.278760 -80.945870
6/9/2017	MRW02	0920	24.0	21.08	0.251	2.12	7.04	0.12	9.6	01	NA	ND	Water too low to take measurement	32.240785 -80.885964
6/9/2017	NRW01	NS												32.236193 -81.013512
6/9/2017	MRG04	NS												32.444164 -80.627131
6/9/2017	CSW01	NS												32.556240 -80.693540
6/9/2017	CSW03	NS												32.580105 -80.698511
6/9/2017	CBS01	0958	24.2	24.87	29.2	5.51	6.73	18.09	8.6	00	4100	ND	Flow meter Inoperable	32.241518 -80.811203

Notes: Further details for notes are addressed in comments section.

NS = No Sample Collected
NF = No Flow Observed at sample site
H = High Flow Observed at sample site
M = Medium Flow Observed at sample site
L = Low Flow Observed at sample site
NW = No Water Observed at sample site
ND = No Data recorded
CLR = Clear Skies
F = Fair Weather (Partly Cloudy, no Thunderstorm/Rain event occurred in vacinity)
CLDY = Cloudy Skies
R = Rain (Thunderstorm or Continuous due to frontal system passage)

Additional Comments:
DRY EVENT

Weather Code
00 = (Clear; NSW)
01 = (Fair Weather)
02 = (Cloudy Skies)
22 = (Rain/Storm)

Tide Stage	
2000 = EBB	
2100 = 1/4 Fld	
2200 = 1/2 Fld	
2300 = 3/4 Fld	
4000 = FLOOD	
4300 = 3/4 Ebb	
4200 = 1/2 Ebb	
4100 = 1/4 Ebb	

Beaufort County
MS4-319 Monitoring
2017

Col. Date	Site ID	Col. Time	MPN E. Coli (MPN/100 mL)	MPN Fecal (MPN/100 mL)	MPN Enterococcus (MPN/100 mL)	MPN E. Coli Dilution	MPN Fecal Dilution	MPN Enterococcus Dilution	Remarks
6/9/2017	MRG03	NS							
6/9/2017	BATT04	NS							
6/9/2017	OKW3A	1115	600.5	269.0		5	5		
6/9/2017	MRW02	0920	128.0	141.0		5	5		
6/9/2017	NRW01	NS							
6/9/2017	MRG04	NS							
6/9/2017	CSW01	NS							
6/9/2017	CSW03	NS							
6/9/2017	CBS01	0958	286.5	100.5		5	5		

Notes: Further details for notes are addressed in comments section.

NS = No Sample Collected

NF = No Flow Observed at sample site

NW = No Water Observed at sample site

ND = No Data recorded

Comments:

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	Biochemical Oxygen Demand (BOD5) mg/L	Chlorophyll-a (Chl-a) mg/m3	Total Kjeldahl Nitrogen (TKN) mg/L	Nitrate/Nitrite (NOx) mg/L	Total Nitrogen (TN) mg/L	Total Phosphourus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) ug/L	Metals-Lead (Pb) ug/L	Metals-Zinc (Zn) ug/L	Metals-Mercury (Hg) ug/L	Remarks
6/9/2017	MRG03	NS												
6/9/2017	BATT04	NS												
6/9/2017	OKW3A	1115	2.8	36	1.6	0.077	1.70	0.19	7.5	<5.0	<2.5	<20		
6/9/2017	MRW02	0920	<2.0	2.3	0.98	<0.050	1.0	0.64	7.2	5.5	<2.5	<20		
6/9/2017	NRW01	NS												
6/9/2017	MRG04	NS												
6/9/2017	CSW01	NS												
6/9/2017	CSW03	NS												
6/9/2017	CBS01	0958	2.7	7.8	0.54	<0.050	0.59	0.42	13	<5.0	<2.5	<20		

Notes: Further details for notes are addressed in comments section.
NS = No Sample Collected
NF = No Flow Observed at sample site
NW = No Water Observed at sample site
ND = No Data recorded

Comments:

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	Air Temperature (^{0}C)	Water Temperature (^{0}C)	Specific Conductivity (SpC) (*m* s/cm)	DO (mg/L)	pH (H+)	Salinity (ppt)	Turbidity (NTU)	Weather Observed	Tide Stage	Flow (cfs)	Remarks	GPS Coordinates
6/5/2017	MRG03	1105	30.2	24.83	0.202	5.77	7.17	0.10	5.3	02		ND	Wtr too low for flow	32.430800 -80.630610
6/5/2017	BATT04	1142	30.2	29.44	17.10	4.70	6.67	9.64	9.8	01		0.011		32.424450 -80.725150
6/5/2017	OKW3A	NS									NA			32.278760 -80.945870
6/5/2017	MRW02	NS												32.240785 -80.885964
6/5/2017	NRW01	1305	30.4	26.12	0.111	2.64	6.48	0.06	1.5	01		ND	TOB/BC agreement to record flow	32.236193 -81.013512
6/5/2017	MRG04	NW												32.444164 -80.627131
6/5/2017	CSW01	NS												32.556240 -80.693540
6/5/2017	CSW03	NS												32.580105 -80.698511
6/5/2017	CBS01	NS												32.241518 -80.811203

Notes: Further details for notes are addressed in comments section.

NS = No Sample Collected
NF = No Flow Observed at sample site
H = High Flow Observed at sample site
M = Medium Flow Observed at sample site
L = Low Flow Observed at sample site
NW = No Water Observed at sample site
ND = No Data recorded
CLR = Clear Skies
F = Fair Weather (Partly Cloudy, no Thunderstorm/Rain event occurred in vacinity)
CLDY = Cloudy Skies
R = Rain (Thunderstorm or Continuous due to frontal system passage)

Additional Comments:
DRY EVENT

Weather Code	
00 = (Clear; NSW)	
01 = (Fair Weather)	
02 = (Cloudy Skies)	
22 = (Rain/Storm)	

Tide Stage	
2000 = EBB	
2100 = 1/4 Fld	
2200 = 1/2 Fld	
2300 = 3/4 Fld	
4000 = FLOOD	
4300 = 3/4 Ebb	
4200 = 1/2 Ebb	
4100 = 1/4 Ebb	

Beaufort County
MS4-319 Monitoring
2017

Col. Date	Site ID	Col. Time	MPN E. Coli (MPN/100 mL)	MPN Fecal (MPN/100 mL)	MPN Enterococcus (MPN/100 mL)	MPN E. Coli Dilution	MPN Fecal Dilution	MPN Enterococcus Dilution	Remarks
6/5/2017	MRG03	1105	2897.0	1007.0		5	5		
6/5/2017	BATT04	1142	4902.0	117.5		5	5		
6/5/2017	OKW3A	NS				5	5		
6/5/2017	MRW02	NS				5	5		
6/5/2017	NRW01	1305	325.0	297.0	74.0	5	5	10	
6/5/2017	MRG04	NW							
6/5/2017	CSW01	NS							
6/5/2017	CSW03	NS							
6/5/2017	CBS01	NS							

Notes: Further details for notes are addressed in comments section.

NS = No Sample Collected

NF = No Flow Observed at sample site

NW = No Water Observed at sample site

ND = No Data recorded

Comments:

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	Biochemical Oxygen Demand (BOD5) mg/L	Chlorophyll-a (Chl-a) mg/m3	Total Kjeldahl Nitrogen (TKN) mg/L	Nitrate/Nitrite (NOx) mg/L	Total Nitrogen (TN) mg/L	Total Phosphourus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) ug/L	Metals-Lead (Pb) ug/L	Metals-Zinc (Zn) ug/L	Metals-Mercury (Hg) ug/L	Remarks
6/5/2017	MRG03	1105	53	2.3	0.43	<0.05	0.46	<0.10	<1.0	<5.0	<2.5	<20	NA	
6/5/2017	BATT04	1142	41	7.4	0.65	<0.05	0.69	<0.10	12.4	<5.0	<2.5	<20	NA	
6/5/2017	OKW3A	NS												
6/5/2017	MRW02	NS												
6/5/2017	NRW01	1305	35	85	1.2	<0.05	1.2	<0.10	4.2	<5.0	<2.5	<20	<1.0	
6/5/2017	MRG04	NW												
6/5/2017	CSW01	NS												
6/5/2017	CSW03	NS												
6/5/2017	CBS01	NS												

Notes: Further details for notes are addressed in comments section.
NS = No Sample Collected
NF = No Flow Observed at sample site
NW = No Water Observed at sample site
ND = No Data recorded

Comments:

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	Air Temperature (^{0}C)	Water Temperature (^{0}C)	Specific Conductivity (SpC) (*m* s/cm)	DO (mg/L)	pH (H+)	Salinity (ppt)	Turbidity (NTU)	Weather Observed	Tide Stage	Flow (cfs)	Remarks	GPS Coordinates
4/6/2017	MRG03	1036	21.6	19.93	0.073	5.72	5.91	0.04	18.0	00	4300	7.932		32.430800 -80.630610
4/6/2017	BATT04	1226	22.3	21.44	1.44	6.80	6.32	0.72	19.0	00	4300	1.900		32.424450 -80.725150
4/6/2017	OKW3A	NS												32.278760 -80.945870
4/6/2017	MRW02	NS												32.240785 -80.885964
4/6/2017	NRW01	1429	24.2	21.45	0.624	4.25	6.29	0.30	19.2	00	4300	ND	Waiting TOB/BC Flow Decision	32.236193 -81.013512
4/6/2017	MRG04	NS												32.444164 -80.627131
4/6/2017	CSW01	NS												32.556240 -80.693540
4/6/2017	CSW02	NS												32.580180 -80.699481
4/6/2017	CSW02A	NS												32.579890 -80.699270
4/6/2017	CBS01	1314	22.6	23.76	4.290	6.09	6.85	2.27	13.0	00	4300	NS	POS/NEG FLOW	32.241518 -80.811203

Notes: Further details for notes are addressed in comments section.

NS = No Sample Collected
NF = No Flow Observed at sample site
H = High Flow Observed at sample site
M = Medium Flow Observed at sample site
L = Low Flow Observed at sample site
NW = No Water Observed at sample site
ND = No Data recorded
CLR = Clear Skies
F = Fair Weather (Partly Cloudy, no Thunderstorm/Rain event occurred in vacinity)
CLDY = Cloudy Skies
R = Rain (Thunderstorm or Continuous due to frontal system passage)

Additional Comments:

WET EVENT Precip Qual = 1.75 MCAS-North of Broad
Precip Qual = 1.46 May River Old Town Bluffton-South of Broad

Weather Code
00 = (Clear; NSW)
01 = (Fair Weather)
02 = (Cloudy Skies)
22 = (Rain/Storm)

Tide Stage	
2000 = EBB	
2100 = 1/4 Fld	
2200 = 1/2 Fld	
2300 = 3/4 Fld	
4000 = FLOOD	
4300 = 3/4 Ebb	
4200 = 1/2 Ebb	
4100 = 1/4 Ebb	

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	MPN E. Coli (MPN/100 mL)	MPN Fecal (MPN/100 mL)	MPN Enterococcus (MPN/100 mL)	MPN E. Coli Dilution	MPN Fecal Dilution	MPN Enterococcus Dilution	Remarks
4/6/2017	MRG03	1036	776.5	278.5		5	5		
4/6/2017	BATT04	1226	1936.5	2305.5		5	5		
4/6/2017	OKW3A	NS							
4/6/2017	MRW02	NS							
4/6/2017	NRW01	1429	2442.0	1538.0	861.5	5	5	5	
4/6/2017	MRG04	NS							
4/6/2017	CSW01	NS							
4/6/2017	CSW02	NS							
4/6/2017	CSW02A	NS							
4/6/2017	CBS01	1314	480.0	1244.5		5	5		

Notes: Further details for notes are addressed in comments section.

NS = No Sample Collected

NF = No Flow Observed at sample site

NW = No Water Observed at sample site

ND = No Data recorded

Comments:

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	Biochemical Oxygen Demand (BOD5) mg/L	Chlorophyll-a (Chl-a) mg/m3	Total Kjeldahl Nitrogen (TKN) mg/L	Nitrate/Nitrite (NOx) mg/L	Total Nitrogen (TN) mg/L	Total Phosphourus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) ug/L	Metals-Lead (Pb) ug/L	Metals-Zinc (Zn) ug/L	Metals-Mercury (Hg) ug/L	Remarks
4/6/2017	MRG03	1036	7.4	3.2	0.28	0.059	0.34	<0.10	4.2	<5.0	<2.5	<20		
4/6/2017	BATT04	1226	4.7	3.1	0.73	0.073	0.80	0.12	16.6	15	<2.5	<20		
4/6/2017	OKW3A	NS												
4/6/2017	MRW02	NS												
4/6/2017	NRW01	1429	4.4	1.6	0.96	<0.050	0.97	0.10	21.4	<5.0	<2.5	<20	0.08	
4/6/2017	MRG04	NS												
4/6/2017	CSW01	NS												
4/6/2017	CSW02	NS												
4/6/2017	CSW02A	NS												
4/6/2017	CBS01	1314	2.2	17	1.2	540	540	0.28	15.0	13	<2.5	<20		

Notes: Further details for notes are addressed in comments section.
NS = No Sample Collected
NF = No Flow Observed at sample site
NW = No Water Observed at sample site
ND = No Data recorded

Comments:

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	Air Temperature (^{0}C)	Water Temperature (^{0}C)	Specific Conductivity (SpC) (*m* s/cm)	DO (mg/L)	pH (H+)	Salinity (ppt)	Turbidity (NTU)	Weather Observed	Tide Stage	Flow (cfs)	Remarks	GPS Coordinates
4/4/2017	MRG03	NS									2200	ND	INCOMING TIDE	32.430800 -80.630610
4/4/2017	BATT04	NS									2100	ND	INCOMING TIDE	32.424450 -80.725150
4/4/2017	OKW3A	1427	27.3	24.56	0.143	6.24	6.98	0.07	13.9	00	NA	ND	BC to provide IQ	32.278760 -80.945870
4/4/2017	MRW02	1437	27.3	21.34	0.190	3.75	6.41	0.09	6.2	00	NA	ND	Water Moccasin at site in water	32.240785 -80.885964
4/4/2017	NRW01	NS									2300	ND	INCOMING TIDE	32.236193 -81.013512
4/4/2017	MRG04	1256	26.6	21.60	0.361	5.04	6.63	0.17	51.3	00	NA	0.199		32.444164 -80.627131
4/4/2017	CSW01	1100	26.5	20.26	0.350	2.56	6.65	0.17	45.3	00	NA	ND	POS/-NEG Opposing Flow	32.556240 -80.693540
4/4/2017	CSW02	0955	29.9	19.06	15.5	7.15	6.29	8.91	33.6	00	4300	ND	Flow too low, obstructed by Rip-Rap, in pool	32.580180 -80.699481
4/4/2017	CSW02A	0956	29.9	18.85	14.510	5.68	6.37	8.34	13.9	00	4300	ND	Flow too low, obstructed by Rip-Rap, in pool	32.579890 -80.699270
4/4/2017	CBS01	NS									2300	ND	INCOMING TIDE	32.241518 -80.811203

Notes: Further details for notes are addressed in comments section.

NS = No Sample Collected
NF = No Flow Observed at sample site
H = High Flow Observed at sample site
M = Medium Flow Observed at sample site
L = Low Flow Observed at sample site
NW = No Water Observed at sample site
ND = No Data recorded
CLR = Clear Skies
F = Fair Weather (Partly Cloudy, no Thunderstorm/Rain event occurred in vacinity)
CLDY = Cloudy Skies
R = Rain (Thunderstorm or Continuous due to frontal system passage)

Additional Comments:

WET EVENT Precip Qual = 1.05 MCAS-North of Broad
Precip Qual = 1.22 May River Old Town Bluffton-South of Broad

Achieved a new location to obtain a proper flow measurement for CSW02, CSW02A(new site)

Weather Code
00 = (Clear; NSW)
01 = (Fair Weather)
02 = (Cloudy Skies)
22 = (Rain/Storm)

Tide Stage	
2000 = EBB	
2100 = 1/4 Fld	
2200 = 1/2 Fld	
2300 = 3/4 Fld	
4000 = FLOOD	
4300 = 3/4 Ebb	
4200 = 1/2 Ebb	
4100 = 1/4 Ebb	

Beaufort County
MS4-319 Monitoring
2017

Col. Date	Site ID	Col. Time	MPN E. Coli (MPN/100 mL)	MPN Fecal (MPN/100 mL)	MPN Enterococcus (MPN/100 mL)	MPN E. Coli Dilution	MPN Fecal Dilution	MPN Enterococcus Dilution	Remarks
4/4/2017	MRG03	NS							
4/4/2017	BATT04	NS							
4/4/2017	OKW3A	1427	1627.5	1123.5		5	5		
4/4/2017	MRW02	1437	710.5	556.0		5	5		
4/4/2017	NRW01	NS							
4/4/2017	MRG04	1256	2305.5	1049.0		5	5		
4/4/2017	CSW01	1100	493.5	418.0		5	5		
4/4/2017	CSW02	955	538.0	132.5		5	5		
4/4/2017	CSW02A	956	232.0	256.0		5	5		
4/4/2017	CBS01	NS							

Notes: Further details for notes are addressed in comments section.

NS = No Sample Collected

NF = No Flow Observed at sample site

NW = No Water Observed at sample site

ND = No Data recorded

Comments:

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	Biochemical Oxygen Demand (BOD5) mg/L	Chlorophyll-a (Chl-a) mg/m3	Total Kjeldahl Nitrogen (TKN) mg/L	Nitrate/Nitrite (NOx) mg/L	Total Nitrogen (TN) mg/L	Total Phosphourus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) ug/L	Metals-Lead (Pb) ug/L	Metals-Zinc (Zn) ug/L	Metals-Mercury (Hg) ug/L	Remarks
4/4/2017	MRG03	NS												
4/4/2017	BATT04	NS												
4/4/2017	OKW3A	1427	49	3.7	0.91	<0.050	0.93	0.12	10.2	<5.0	<2.5	22		
4/4/2017	MRW02	1437	39	4.3	0.91	<0.050	0.95	0.30	5.4	<5.0	<2.5	25		
4/4/2017	NRW01	NS												
4/4/2017	MRG04	1256	2.7	12	0.87	<0.050	0.88	0.29	27.8	<5.0	<2.5	25		
4/4/2017	CSW01	1100	6.2	10	1.1	<0.050	1.1	0.86	27.2	<5.0	<2.5	24		
4/4/2017	CSW02	0955	2.0	5.7	1.0	0.062	1.1	0.23	28.6	21	<2.5	28		
4/4/2017	CSW02A	0956	3.4	3.0	0.96	0.14	1.1	0.18	16.2	<5.0	<2.5	<20		
4/4/2017	CBS01	NS												

Notes: Further details for notes are addressed in comments section.
NS = No Sample Collected
NF = No Flow Observed at sample site
NW = No Water Observed at sample site
ND = No Data recorded

Comments:

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	Air Temperature (^{0}C)	Water Temperature (^{0}C)	Specific Conductivity (SpC) (*m* s/cm)	DO (mg/L)	pH (H+)	Salinity (ppt)	Turbidity (NTU)	Weather Observed	Tide Stage	Flow (cfs)*	Remarks	GPS Coordinates
3/14/2017	MRG03	NS									2200		INCOMING TIDE	32.430800 -80.630610
3/14/2017	BATT04	0904	9.9	13.78	2.34	8.51	6.31	1.19	8.3	02	2300	0.613		32.424450 -80.725150
3/14/2017	OKW3	1020	10.1	11.23	0.139	7.74	6.31	0.07	16.7	02		0.037		32.278760 -80.945870
3/14/2017	MRW02	NS									2300	NF	HI TIDE RESTRICTING FLOW	32.240785 -80.885964
3/14/2017	NRW01	NS									2300		INCOMING TIDE	32.236193 -81.013512
3/14/2017	MRG04	NS										NF	Standing Water	32.444164 -80.627131
3/14/2017	CSW01	0815	7.9	10.22	0.321	8.88	6.08	0.15	33.7	02		0.053		32.556240 -80.693540
3/14/2017	CSW02	NS									2200		INCOMING TIDE	32.580180 -80.699481
3/14/2017	CBS01	NS									2300		INCOMING TIDE	32.241518 -80.811203

Notes: Further details for notes are addressed in comments section.

NS = No Sample Collected
NF = No Flow Observed at sample site
H = High Flow Observed at sample site
M = Medium Flow Observed at sample site
L = Low Flow Observed at sample site
NW = No Water Observed at sample site
ND = No Data recorded
CLR = Clear Skies
F = Fair Weather (Partly Cloudy, no Thunderstorm/Rain event occurred in vacinity)
CLDY = Cloudy Skies
R = Rain (Thunderstorm or Continuous due to frontal system passage)

Additional Comments:

WET EVENT Precip Qual = 0.32 MCAS

Weather Code	
00 = (Clear; NSW)	
01 = (Fair Weather)	
02 = (Cloudy Skies)	
22 = (Rain/Storm)	

Tide Stage	
2000 = EBB	
2100 = 1/4 Fld	
2200 = 1/2 Fld	
2300 = 3/4 Fld	
4000 = FLOOD	
4300 = 3/4 Ebb	
4200 = 1/2 Ebb	
4100 = 1/4 Ebb	

BC MS4 sampling sites were first introduced to the WQL on 20 Dec 2016. Subsequently, these sites were redefined by BC with notification to the WQL on 16 Feb 2017. On 20 Feb 2017, the WQL supplied BC with a list of redefined site names, descriptions, and GPS coordinates. As several of these redefined sites were selected sight-unseen, the feasibility of collecting water quality and flow data as outlined in BC's MS4 program plan was unknown in many cases. Thus, efforts are ongoing to determine whether water samples and flow at each site can be collected under weather and tidal conditions required by BC. In the meantime, the WQL is collecting water quality and flow data whenever site conditions allow. Where water quality and/or flow data are lacking, one or more of the following unfavorable conditions were present: tidal cycle, lack of water discharge, water level too high or low, rainfall criterion not met, or the logistical impossibility of sampling multiple locations geographically too far removed from one another. *Data reported may not reflect the optimal measurement technique, as WQL personnel had to learn the most appropriate application of the Flow Tracker ADV for each sampling site under variable field conditions. Thus, the accuracy of some flow data is suspect, as data were collected in the process of obtaining proficiency with the instrumentation and its application.

Beaufort County
MS4-319 Monitoring
2017

Col. Date	Site ID	Col. Time	MPN E. Coli (MPN/100 mL)	MPN Fecal (MPN/100 mL)	MPN Enterococcus (MPN/100 mL)	MPN E. Coli Dilution	MPN Fecal Dilution	MPN Enterococcus Dilution	Remarks
3/14/2017	MRG03	NS							
3/14/2017	BATT04	904	150.5	54.0		5	5		
3/14/2017	OKW3	1020	2305.5	1377.5		5	5		
3/14/2017	MRW02	NS							
3/14/2017	NRW01	NS							
3/14/2017	MRG04	NS							
3/14/2017	CSW01	0815	479.5	494.0		5	5		
3/14/2017	CSW02	NS							
3/14/2017	CBS01	NS							

Notes: Further details for notes are addressed in comments section.

NS = No Sample Collected

NF = No Flow Observed at sample site

NW = No Water Observed at sample site

ND = No Data recorded

Comments:

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	Biochemical Oxygen Demand (BOD5) mg/L	Chlorophyll-a (Chl-a) mg/m3	Total Kjeldahl Nitrogen (TKN) mg/L	Nitrate/Nitrite (NOx) mg/L	Total Nitrogen (TN) mg/L	Total Phosphourus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) ug/L	Metals-Lead (Pb) ug/L	Metals-Zinc (Zn) ug/L	Metals-Mercury (Hg) ug/L	Remarks
3/14/2017	MRG03	NS												
3/14/2017	BATT04	0904	2.0	1.9	0.81	0.080	0.89	<0.10	3.6	<5.0	<2.5	<20		
3/14/2017	OKW3	1020	5.0	7.3	0.83	<0.050	0.86	0.11	5.1	<5.0	<2.5	35.0		
3/14/2017	MRW02	NS												
3/14/2017	NRW01	NS												
3/14/2017	MRG04	NS												
3/14/2017	CSW01	0815	4.5	1.4	0.60	0.10	0.70	0.41	14.80	<5.0	<2.5	<20		
3/14/2017	CSW02	NS												
3/14/2017	CBS01	NS												

Notes: Further details for notes are addressed in comments section.
NS = No Sample Collected
NF = No Flow Observed at sample site
NW = No Water Observed at sample site
ND = No Data recorded

Comments:

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	Air Temperature (^{0}C)	Water Temperature (^{0}C)	Specific Conductivity (SpC) (*m* s/cm)	DO (mg/L)	pH (H+)	Salinity (ppt)	Turbidity (NTU)	Weather Observed	Tide Stage	Flow (cfs)*	Remarks	GPS Coordinates
3/8/2017	MRG03	1000	23.7	18.88	0.184	18.08	7.18	0.09	4.6	01	4300	0.024		32.430800 -80.630610
3/8/2017	BATT04	1045	25.1	19.01	1.69	9.40	7.29	0.84	3.7	01	4300	0.088		32.424450 -80.725150
3/8/2017	OKW3	1249	29.8	18.65	0.117	10.11	7.52	0.06	8.7	01		0.017R / 0.009L	Right/Left in Box	32.278760 -80.945870
3/8/2017	MRW02	1330	25.2	17.89	0.173	13.57	7.29	0.08	18.5	01		0.115		32.240785 -80.885964
3/8/2017	NRW01	1415	25.7	18.02	0.125	7.47	6.88	0.06	10.8	01	4300	ND	Equip not feasable for flow cond	32.236193 -81.013512
3/8/2017	MRG04	NS										NF		32.444164 -80.627131
3/8/2017	CSW01	NS										NF		32.556240 -80.693540
3/8/2017	CSW02	NS									4300	NF	Pooled water, no movement	32.580180 -80.699481
3/8/2017	CBS01	NS										NF	INCOMING TIDE	32.241518 -80.811203

Notes: Further details for notes are addressed in comments section.

NS = No Sample Collected
NF = No Flow Observed at sample site
H = High Flow Observed at sample site
M = Medium Flow Observed at sample site
L = Low Flow Observed at sample site
NW = No Water Observed at sample site
ND = No Data recorded
CLR = Clear Skies
F = Fair Weather (Partly Cloudy, no Thunderstorm/Rain event occurred in vacinity)
CLDY = Cloudy Skies
R = Rain (Thunderstorm or Continuous due to frontal system passage)

Additional Comments:
DRY EVENT

Weather Code	
00 = (Clear; NSW)	
01 = (Fair Weather)	
02 = (Cloudy Skies)	
22 = (Rain/Storm)	

Tide Stage	
2000 = EBB	
2100 = 1/4 Fld	
2200 = 1/2 Fld	
2300 = 3/4 Fld	
4000 = FLOOD	
4300 = 3/4 Ebb	
4200 = 1/2 Ebb	
4100 = 1/4 Ebb	

BC MS4 sampling sites were first introduced to the WQL on 20 Dec 2016. Subsequently, these sites were redefined by BC with notification to the WQL on 16 Feb 2017. On 20 Feb 2017, the WQL supplied BC with a list of redefined site names, descriptions, and GPS coordinates. As several of these redefined sites were selected sight-unseen, the feasibility of collecting water quality and flow data as outlined in BC's MS4 program plan was unknown in many cases. Thus, efforts are ongoing to determine whether water samples and flow at each site can be collected under weather and tidal conditions required by BC. In the meantime, the WQL is collecting water quality and flow data whenever site conditions allow. Where water quality and/or flow data are lacking, one or more of the following unfavorable conditions were present: tidal cycle, lack of water discharge, water level too high or low, rainfall criterion not met, or the logistical impossibility of sampling multiple locations geographically too far removed from one another. *Data reported may not reflect the optimal measurement technique, as WQL personnel had to learn the most appropriate application of the Flow Tracker ADV for each sampling site under variable field conditions. Thus, the accuracy of some flow data is suspect, as data were collected in the process of obtaining proficiency with the instrumentation and its application.

Beaufort County
MS4-319 Monitoring
2017

Col. Date	Site ID	Col. Time	MPN E. Coli (MPN/100 mL)	MPN Fecal (MPN/100 mL)	MPN Enterococcus (MPN/100 mL)	MPN E. Coli Dilution	MPN Fecal Dilution	MPN Enterococcus Dilution	Remarks
3/8/2017	MRG03	945	2586.0	137.5	NS	5	5		
3/8/2017	BATT04	1030	37.5	20.5	NS	5	5		
3/8/2017	OKW3	1239	1297.5	741.5	NS	5	5		
3/8/2017	MRW02	1307	3244.0	2737.5	NS	5	5		
3/8/2017	NRW01	1405	750.0	611.5	2014.0	5	5	10	
3/8/2017	MRG04	NS							
3/8/2017	CSW01	NS							
3/8/2017	CSW02	NS							
3/8/2017	CBS01	NS							

Notes: Further details for notes are addressed in comments section.

NS = No Sample Collected

NF = No Flow Observed at sample site

NW = No Water Observed at sample site

ND = No Data recorded

Comments:

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	Biochemical Oxygen Demand (BOD5) mg/L	Chlorophyll-a (Chl-a) mg/m3	Total Kjeldahl Nitrogen (TKN) mg/L	Nitrate/Nitrite (NOx) mg/L	Total Nitrogen (TN) mg/L	Total Phosphourus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) ug/L	Metals-Lead (Pb) ug/L	Metals-Zinc (Zn) ug/L	Metals-Mercury (Hg) ug/L	Remarks
3/8/2017	MRG03	945	2.0	1.5	0.27	<0.050	0.30	<0.10	1.0	<5.0	<2.5	<20		
3/8/2017	BATT04	1030	2.1	1.6	0.58	0.050	0.63	<0.10	2.5	<5.0	<2.5	<20		
3/8/2017	OKW3	1239	8.6	6.4	0.86	<0.050	0.88	0.12	5.0	<5.0	<2.5	<20		
3/8/2017	MRW02	1307	2.0	1.4	0.83	0.061	0.89	0.33	1.4	<5.0	<2.5	<20		
3/8/2017	NRW01	1405	3.8	0.95	1.1	<0.050	1.1	0.13	5.6	<5.0	<2.5	<20	<1.0	
3/8/2017	MRG04	NS												
3/8/2017	CSW01	NS												
3/8/2017	CSW02	NS												
3/8/2017	CBS01	NS												

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NF = No Flow Observed at sample site
NW = No Water Observed at sample site
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Comments:

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	Air Temperature (^{0}C)	Water Temperature (^{0}C)	Specific Conductivity (SpC) (*m* s/cm)	DO (mg/L)	pH (H+)	Salinity (ppt)	Turbidity (NTU)	Weather Observed	Tide Stage	Flow (cfs)*	Remarks	GPS Coordinates
2/9/2017	NRW01	1200	16.7	16.67	0.099	5.46	6.41	0.05	11.3	00	4100	ND	Flow Equip Not Available (in txfr to wql)	N32.236193 -81.013512

Notes: Further details for notes are addressed in comments section.

NS = No Sample Collected
NF = No Flow Observed at sample site
H = High Flow Observed at sample site
M = Medium Flow Observed at sample site
L = Low Flow Observed at sample site
NW = No Water Observed at sample site
ND = No Data recorded
CLR = Clear Skies
F = Fair Weather (Partly Cloudy, no Thunderstorm/Rain event occurred in vacinity)
CLDY = Cloudy Skies
R = Rain (Thunderstorm or Continuous due to frontal system passage)

Additional Comments:

WET EVENT
TOB notified WQL rain criteria was met for wet sampling event.

Weather Code	
00 = (Clear; NSW)	
01 = (Fair Weather)	
02 = (Cloudy Skies)	
22 = (Rain/Storm)	

Tide Stage	
2000 = EBB	
2100 = 1/4 Fld	
2200 = 1/2 Fld	
2300 = 3/4 Fld	
4000 = FLOOD	
4300 = 3/4 Ebb	
4200 = 1/2 Ebb	
4100 = 1/4 Ebb	

BC MS4 sampling sites were first introduced to the WQL on 20 Dec 2016. Subsequently, these sites were redefined by BC with notification to the WQL on 16 Feb 2017. On 20 Feb 2017, the WQL supplied BC with a list of redefined site names, descriptions, and GPS coordinates. As several of these redefined sites were selected sight-unseen, the feasibility of collecting water quality and flow data as outlined in BC's MS4 program plan was unknown in many cases. Thus, efforts are ongoing to determine whether water samples and flow at each site can be collected under weather and tidal conditions required by BC. In the meantime, the WQL is collecting water quality and flow data whenever site conditions allow. Where water quality and/or flow data are lacking, one or more of the following unfavorable conditions were present: tidal cycle, lack of water discharge, water level too high or low, rainfall criterion not met, or the logistical impossibility of sampling multiple locations geographically too far removed from one another. *Data reported may not reflect the optimal measurement technique, as WQL personnel had to learn the most appropriate application of the Flow Tracker ADV for each sampling site under variable field conditions. Thus, the accuracy of some flow data is suspect, as data were collected in the process of obtaining proficiency with the instrumentation and its application.

Beaufort County

MS4-319 Monitoring

2017

Col. Date	Site ID	Col. Time	MPN E. Coli (MPN/100 mL)	MPN Fecal (MPN/100 mL)	MPN Enterococcus (MPN/100mL)	MPN E. Coli Dilution	MPN Fecal Dilution	MPN Enterococcus Dilution	Remarks
2/9/2017	NRW01	1200	144.0	55.0	183.0	5	5	10	

Notes: Further details for notes are addressed in comments section.

NS = No Sample Collected

NF = No Flow Observed at sample site

NW = No Water Observed at sample site

ND = No Data recorded

Comments:

Beaufort County
MS4-319 Monitoring
2017

Date of Collection	Site ID	Time of Collection	Biochemical Oxygen Demand (BOD5) mg/L	Chlorophyll-a (Chl-a) mg/m3	Total Kjeldahl Nitrogen (TKN) mg/L	Nitrate/Nitrite (NOx) mg/L	Total Nitrogen (TN) mg/L	Total Phosphourus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) ug/L	Metals-Lead (Pb) ug/L	Metals-Zinc (Zn) ug/L	Metals-Mercury (Hg) ug/L	Remarks
2/9/2017	NRW01	1200	54	<0.50	2.7	<0.05	2.7	<0.10	1.03	<5.0	<2.5	<20	<1.0	

NS = No Sample Collected
NF = No Flow Observed at sample site
NW = No Water Observed at sample site
ND = No Data recorded

Comments:

RESOLUTION 2017 / 20

A RESOLUTION AUTHORIZING THE BEAUFORT COUNTY ADMINISTRATOR AND BEAUFORT COUNTY STORMWATER UTILITY STAFF TO PREPARE AND SUBMIT AN AMENDMENT TO AN APPLICATION FOR NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM REGULATED SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS

WHEREAS, the Beaufort County Stormwater Utility was created in 2001 with the mission to address the stormwater needs of the County while protecting its water resources; and

WHEREAS, the United States Environmental Protection Agency (hereinafter, "EPA") promulgated the Clean Water Act, 33 U.S.C. Section 1251 *et. seq.*, in 1972 (hereinafter, "CWA"), amended by the Water Quality Act, P.L. 100-4 and subsequent regulations of 1987, creating the National Pollutant Discharge Elimination System (hereinafter, "NPDES"); and

WHEREAS, the State of South Carolina Department of Health and Environmental Control (hereinafter, "DHEC") promulgated the South Carolina Pollution Control Act, S.C. Code Sections 48-1-10 *et. seq.*, in 1976 in response to the CWA, creating the NPDES General Permit for Stormwater Discharges from Regulated Small Municipal Separate Storm Sewer Systems (hereinafter, "MSM4"); and

WHEREAS, DHEC Bureau of Water has promulgated the NPDES General Permit for Stormwater Discharges from Regulated Small Municipal Separate Storm Sewer Systems (MSM4), SCR030000; and

WHEREAS, on June 4, 2014, in accordance with the South Carolina Water Pollution Control Permits Regulations 61-9 Section 122.32 (a)(1), DHEC designated Beaufort County, South Carolina as a small MS4 for permitting; and

WHEREAS, S.C.R. 61-9 requires the owners and operators of MS4 obtain a NPDES permit and develop and implement a program to minimize the discharge of pollutants through and from the MS4 into waters of the United States; and

WHEREAS, on November 19, 2014, the County submitted a Notice of Intent (hereinafter, "NOI") to be covered by General permit SCR030000 and a Stormwater Management Program (hereinafter, "SWMP") to DHEC; and

WHEREAS, on December 1, 2015, the County's MS4 permit became effective for the Urbanized Area defined by the U.S. Census and DHEC and illustrated within the NOI; and

WHEREAS, on April 3, 2017, following a meeting with DHEC and the County to define an implementation schedule for the MS4 permit, DHEC recommended to the County that the NOI be amended to "permit by rule," meaning that the County would be permitted for all

unincorporated areas of Beaufort County's political jurisdiction, to align with local ordinances and programs that have been created to implement the MS4 program county-wide; and

WHEREAS, the County, which desires to implement these new ordinances and programs county-wide with the goal of protecting our waters, improving water quality, and being good stewards of the environment, is agreeable to the "permit by rule" option.

NOW, THEREFORE, BE IT RESOLVED that Beaufort County Council, duly assembled, hereby authorizes the County Administrator and Stormwater Utility Staff to prepare and submit such an amendment consistent with this resolution of the NOI to South Carolina Department of Health and Environmental Control Bureau of Water.

Adopted this 26th day of June, 2017.

COUNTY COUNCIL OF BEAUFORT COUNTY

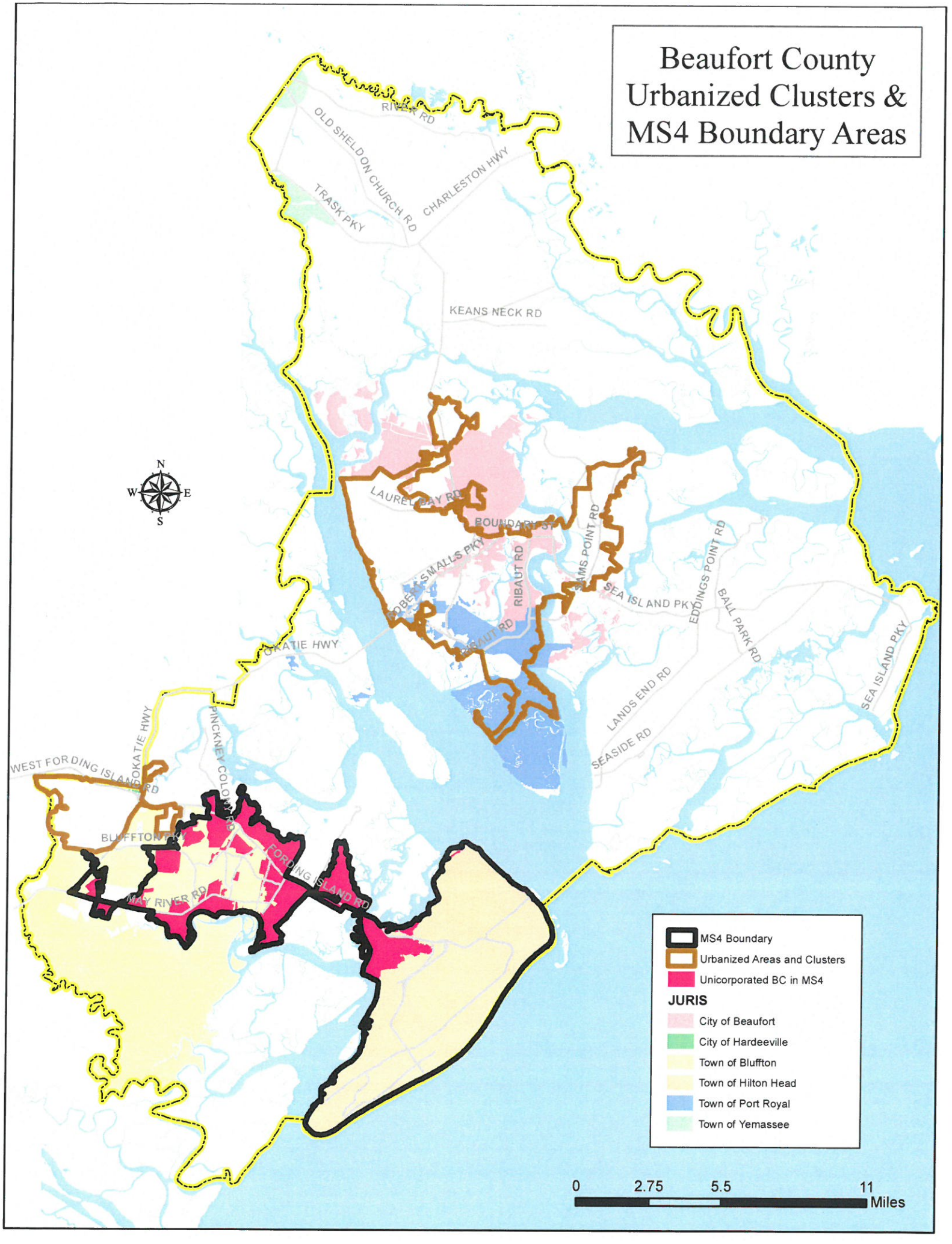
By: _____
D. Paul Sommerville, Chairman

APPROVED AS TO FORM:

_____
Thomas J. Keaveny, II, Esquire
Beaufort County Attorney

ATTEST:

_____
Ashley M. Bennett, Clerk to Council


Beaufort County
Urbanized Clusters &
MS4 Boundary Areas
RIVER RD
OLD SHELDON CHURCH RD
CHARLESTON HWY
TRASK PKY
KEANS NECK RD
LAUREL BAY RD
BOUNDARY ST
ROBERT SMALLS PKY
RIBAUT RD
SAMS POINT RD
SEA ISLAND PKY
EDDINGS POINT RD
BALL PARK RD
SEA ISLAND PKY
OKATIE HWY
LANDS END RD
SEASIDE RD
WEST FORDING ISLAND RD
OKATIE HWY
PINCKNEY COLONY RD
BLUFFTON PKY
FORDING ISLAND RD
MAY RIVER RD
N
W
E
S
MS4 Boundary
Urbanized Areas and Clusters
Unicorporated BC in MS4
JURIS
City of Beaufort
City of Hardeeville
Town of Bluffton
Town of Hilton Head
Town of Port Royal
Town of Yemassee
0
2.75
5.5
11
Miles

STATE OF SOUTH CAROLINA)
) MEMORANDUM OF AGREEMENT
COUNTY OF BEAUFORT)

THIS MEMORANDUM OF AGREEMENT ("Agreement") is being entered into by and between Beaufort County, South Carolina, a body politic duly created and existing pursuant to the provisions of S.C. Code Ann. § 4-9-10, *et seq.* (hereinafter referred to as the "County") and the Town of Bluffton, a South Carolina municipal corporation, created and existing pursuant to S.C. Code Ann. § 5-7-10, *et seq.*, located within the County (hereinafter referred to as "Town")(with the County and the Town individually a "Party" and collectively the "Parties") regarding the sharing of responsibility of Minimum Control Measures required in the National Pollution Discharge Elimination System (hereinafter referred to as "NPDES") permit requirement for South Carolina Permit #SCR030000.

WHEREAS, the County and the Town previously entered into an Intergovernmental Agreement dated July 1, 2016, to define and implement environmental initiatives related to the protection of Southern Beaufort County Watersheds and other outstanding natural resources, a copy of which is attached hereto as Exhibit "**A**" and fully incorporated herein by reference (herein, the "Intergovernmental Agreement"); and

WHEREAS, Article 7.02 of the Intergovernmental Agreement identifies that some aspects of NPDES Municipal Separate Storm Sewer System (MS4) Phase II requirements will lend themselves to coordination and cooperation between the Town and the County and in such instances, coordination between the Town and the County shall be on the basis of a specific Minimum Control Measure (MCM) and shall be established by a separate written agreement; and

WHEREAS, the Town and the County are both authorized to enter into this Agreement by virtue of the provisions of Sections 4-9-40 and 4-9-41 of the South Carolina Code of Laws, 1976, as amended, and Article VIII, Section 13 of the South Carolina Constitution; and,

WHEREAS, the Parties are in pursuit of their mission to protect the local watersheds and other outstanding natural resources and to implement both the County's and the Town's Monitoring Plan, Stormwater Ordinance, Stormwater Management Plans, Illicit Discharge Detection and Elimination Plan, Best Management Practice Plan and Enforcement Response Plan and the Parties have determined that this Agreement is in the best interest of achieving those objectives; and,

WHEREAS, the Parties have determined that it is reasonable, necessary, and in the public interest and welfare for the Parties to cooperate and coordinate the joint administration of the applicable stormwater management ordinances and programs within the territorial jurisdiction of the other Party, as set forth more thoroughly herein.

NOW, THEREFORE, for and in consideration of the mutual promises, undertakings and covenants set forth herein, the receipt and sufficiency of which are hereby acknowledged and affirmed by the County and the Town, the Parties hereto agree as follows:

1. **Recitals Incorporated**. The foregoing recitals are hereby incorporated as though fully set forth herein.

2. **County's Right to Jointly Administer Town Stormwater Ordinance**. The Town hereby agrees and grants to the County and the County hereby acknowledges and accepts the non-exclusive right and authority to jointly administer the Town's duly adopted Unified Development Ordinance 2011-15, as amended, and any plans, programs, or corresponding ordinances adopted in accordance therewith, including but not limited to the Town's (i) Stormwater Management Plan, (ii) MCM 3: Illicit Discharge Detection and Elimination (IDDE) Program, (iii) MCM 4: Construction Site Runoff Control Program, (iv) MCM 5: Post-Construction Runoff Control Program; and, (v) Monitoring Plan (herein, collectively "Town's Stormwater Ordinances"), on all properties located within the municipal limits of the Town.

a. Right of Entry. Included in the County's right to jointly administer the Town's Stormwater Ordinances within the corporate limits of the Town is the right and authority to enter onto such property located within the Town to perform water quality sampling, conduct inspections, investigate potential violations and take such other actions as permitted by the Town's Stormwater Ordinances to the fullest extent granted to the Town.

b. Notifications. The County agrees to notify the Town within twenty-four hours of detecting any potential violation of the Town's Stormwater Ordinances within the corporate limits of the Town. The notification should include the location of the potential violation, the time and date of the potential violation, the type of potential violation, and any additional information that would be necessary or prudent for the Town to have in order to carry out enforcement proceedings. The County agrees to provide the Town with any information required for enforcement action prosecution or other action permitted under the Town's Stormwater Ordinances within 14 days, and agrees to produce County personnel in court, as necessary and upon adequate notice.

c. Town Documentation. The Town agrees to provide the County with access to any documentation or records that could assist the County in its joint administration of the Town's Stormwater Ordinances.

3. **Town's Right to Jointly Administer County Stormwater Ordinance**. The County hereby agrees and grants to the Town and the Town hereby acknowledges and accepts the non-exclusive right and authority to jointly administer the County's duly adopted Stormwater Ordinance 2016/38, as amended, and any plans, programs, or corresponding ordinances adopted in accordance therewith, including but not limited to the County's (i) Stormwater Management Plan, (ii) MCM 3: Illicit Discharge Detection and Elimination (IDDE) Program, (iii) MCM 4: Construction Site Runoff Control Program, (iv) MCM 5: Post-Construction Runoff Control Program; and, (v) Monitoring Plan (herein, collectively "County's Stormwater Ordinances"), on all properties located within the territorial jurisdiction of the County.

a. Right of Entry. Included in the Town's right to jointly administer the County's Stormwater Ordinances within the territorial jurisdiction of the County is the right and authority to enter onto such property located within the County to perform water quality sampling, conduct inspections, investigate potential violations and take such other actions as permitted by the County's Stormwater Ordinances to the fullest extent granted to the County.

b. Notifications. The Town agrees to notify the County within twenty-four hours of detecting any potential violation of the County's Stormwater Ordinances within the territorial jurisdiction of the County. The notification should include the location of the potential violation,

the time and date of the potential violation, the type of potential violation, and any additional information that would be necessary or prudent for the County to have in order to carry out enforcement proceedings. The Town agrees to provide the County with any information required for enforcement action prosecution or other action permitted under the County's Stormwater Ordinances within 14 days, and agrees to produce Town personnel in court, as necessary and upon adequate notice.

c. County Documentation. The County agrees to provide the Town with access to any documentation or records that could assist the Town in its joint administration of the County's Stormwater Ordinances.

4. Joint Monitoring. Monitoring Components. Both Parties will meet components of their Monitoring Plans, as established pursuant to their Stormwater Ordinances and policy documents, through this Agreement as follows:

a. Monitoring locations, parameters, and flow data collection locations will be determined by both Parties and samples will be collected in accordance with both Parties' Monitoring Plans. Every effort will be made to establish locations and parameters that align with both Parties' Monitoring Plans.

b. All analytical results, in-situ data, and flow monitoring data will be reported within thirty (30) days of sample receipt. A preliminary report of completed results prior to thirty (30) days can be issued to the County or Town. Analytical results for microbiological parameters are typically available forty-eight (48) hours after sample receipt and will be given to both parties thereafter. All water quality data will be conveyed to both Parties via email, unless otherwise requested in writing by the requesting Party.

c. Neither Party will incur any fees to the other in regards to this joint monitoring plan.

d. The Town will sample MRR02 in the May River Watershed (Cahill's outfall site located off of Highway 46) at the location and parameters outlined in the County's Monitoring and Assessment Plan for TMDL and Impaired Waters. This site will be sampled each quarter for one wet and one dry weather event to meet both the Town's and County's MS4 Monitoring and Assessment Program (as stated in subsection 4(a) above).

e. The County will sample the OKW3 in the Colleton River watershed at the locations and parameters outlined in the County's Monitoring and Assessment Plan for TMDL and Impaired Waters. These sites will be sampled each quarter for one wet weather and one dry weather event. This schedule and selection of parameters meet both the Town's and County's MS4 Monitoring and Assessment Programs (as stated in subsection 4(a) above).

f. The County will sample the NRW01 in the New River watershed at the locations outlined in the County's Monitoring and Assessment Plan for TMDL and Impaired Waters. The County will monitor for Enterococcus and Mercury, the current

impairments identified by SCDHEC on the New River. This site will be sampled each quarter for one wet weather and one dry weather event. This schedule and selection of parameters meet both the Town's and County's MS4 Monitoring and Assessment Programs (as stated in subsection 4(a) above).

g. All water quality data collected by either Party related to or for the New, May and Colleton Rivers watersheds will be shared.

5. **Miscellaneous**.

a. Waiver. In the event that any agreement contained herein should be breached by either party and thereafter waived by either party, such waiver shall be limited to the particular breach so waived and shall not be deemed to waive any other breach hereunder.

b. Amendments. Except as otherwise provided herein, this Agreement may not be amended, changed, modified or altered without the prior written consent of both Parties hereto.

c. Severability. In the event that any provision of this Agreement shall be held invalid or unenforceable by any court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provisions hereof.

d. Counterparts. This Agreement may be simultaneously executed in several counterparts, each of which shall be an original and all of which shall constitute but one and the same instrument.

e. Governing Law. This Agreement shall be governed by and construed in accordance with the laws of the State of South Carolina.

f. Captions. The captions or headings herein are for convenience only and in no way define, limit or describe the scope or intent of any provision or sections of this Agreement.

g. No Partnership. The Parties hereto intend only to provide for the provision of the services described herein and affirmatively state that no master-servant, principal-agent, employer-employee relationship is created by this Agreement. No employee, volunteer, contractor, agent, or subagent, shall be considered an employee or agent of the other party for any purpose whatsoever, and none shall have any status, right or benefit of employment with the other.

h. No Third Party Beneficiaries. The Parties hereto affirmatively represent that this Agreement is made solely for the benefit of the County and the Town and is not for the benefit of any third party who is not a signature party hereto. No party other than the signature parties hereto shall have any enforceable rights hereunder, or have any right to the enforcement hereof, or any claim for damages as a result of any alleged breach hereof.

6. **Term**. The term of this Agreement shall be from the latest date of execution for three (3) years. The Agreement will be reviewed by the County and Town annually to determine funding availability for the upcoming year. This Agreement can be extended for additional cycles upon the mutual agreement of the Parties.

7. **Termination for Convenience**. The County and the Town shall have the right to terminate this Agreement for convenience upon 60 days written notice.

8. **Notice**. All notices required to be given under the terms of this Agreement shall be in writing and either (i) served personally during regular business hours; (ii) served by e-mail; or, (iii) served by certified or registered mail, return receipt requested, properly addressed with postage prepaid. Notices upon the Parties shall be served as follows:

TO THE TOWN:
Town of Bluffton Engineering Department
Attn: Watershed Management Division Director
Post Office Box 386
Bluffton, South Carolina 29910
E-Mail: kjones@townofbluffton.com

TO THE COUNTY:
Beaufort County, South Carolina
Attn: Stormwater Manager
Post Office Drawer 1228
Beaufort, South Carolina 29902
E-Mail: elarson@bcgov.net

[*Remainder of Page Intentionally Omitted. Signature Page(s) and Exhibit(s) to Follow.*]

IN WITNESS WHEREOF, the Parties hereto have affixed their signature hereto the date first written hereinabove.

BEAUFORT COUNTY, SOUTH CAROLINA

By: Gary Kubic
Name: Gary Kubic
Its: County Administrator
Date 06/05/2017

TOWN OF BLUFFTON

By Marc Orlando
Name: Marc Orlando
Its: Town Manager
Date 6/15/2017

A STORMWATER MANAGEMENT AND UTILITY

INTERGOVERNMENTAL AGREEMENT

BETWEEN BEAUFORT COUNTY, SOUTH CAROLINA, AND

THE TOWN OF BLUFFTON, SOUTH CAROLINA

DATED: 7-1-16

EXHIBIT A

TABLE OF CONTENTS

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WHEREAS, this Agreement is made on this ___ day of _____, 2016, by and between Beaufort County, South Carolina, and the Town of Bluffton, South Carolina, for the purpose of establishing the terms and conditions of the participation by the Town in a county-wide stormwater utility, which utility shall be operated by the County.

ARTICLE 1 - TITLE AND PURPOSE

1.00 *Title:* This intergovernmental agreement between Beaufort County, South Carolina, and the Town of Bluffton, South Carolina, shall be known as the "Stormwater Management and Utility Agreement Between Beaufort County, South Carolina, and the Town of Bluffton, South Carolina."

1.01 *Purpose:* This Agreement is made for the purpose of defining the roles, responsibilities and financial relationship between the County and the Town with respect to the establishment, administration and operation of the Beaufort County Stormwater Utility, which includes the following:

(a) Establishment of rates;

(b) Use of revenue;

(c) Acquisition of existing stormwater infrastructure;

(d) Construction of new stormwater infrastructure;

(e) Maintenance of stormwater infrastructure;

(f) Operation of stormwater infrastructure;

(g) Regulation and use of stormwater infrastructure; and,

(h) Enhancement of water quality.

1.02 *References to County Ordinances:* This Agreement hereby incorporates by reference Beaufort County, South Carolina, Ordinance 2015-24 regarding the establishment of a Stormwater Utility. The Beaufort County Stormwater Implementation Committee (SWIC) will review this Agreement for any needed revisions upon future amendments to *Chapter 99* of the County Ordinance. Amendments to *Chapter 99* shall become binding to this Agreement upon SWIC review and revisions to this Agreement, if deemed necessary. In the case of any conflict between the provisions of the Ordinances and this Agreement, the provisions of this Agreement shall control.

ARTICLE 2 - DEFINITIONS

2.00 *Definitions:* When used in this "Stormwater Management and Utility Agreement between Beaufort County, South Carolina, and the Town of Bluffton, South Carolina," the following words shall have the meanings set forth in this Article 2:

2.01 *Agreement:* This Stormwater Management and Utility Agreement between Beaufort County, South Carolina, and the Town of Bluffton, South Carolina.

2.02 *County:* Beaufort County, South Carolina.

2.03 *County Wide Stormwater Management Study (and Implementation Guide):* The study conducted by the County to determine the drainage infrastructure and maintenance needs within the various watersheds within the County. This became the Beaufort County Stormwater Master Plan dated February 20, 2006. In 2016, the County and Town of Bluffton entered into agreement to update the Master Plan, said document being referred to as the "Beaufort County Stormwater Management Implementation Guide". Future amendments of the Plan/Guide shall

be incorporated by reference once agreed upon by the Beaufort County Stormwater Implementation Committee (SWIC).

2.04 *Cost of Service Analysis and Rate Study:* The study was conducted by the County and Town which was adopted by County Council on August 24, 2015 and submitted by the Study consultant to the Town of Bluffton on April 20, 2016 to determine an equitable and appropriate rate structure for Stormwater Utility User Fees within all areas of the County, so that fees charged by the Stormwater Utility will be in compliance with provisions of S. C. Code Ann. 48-14-120(C)(Supp. 2010), and S. C. Regs. 72-310 (Supp. 2010).

2.05 *Stormwater Utility User Fees:* Stormwater Utility User Fees shall mean the service fee imposed pursuant to this article for the purpose of funding costs related to stormwater programs, services, systems, and facilities. These fees will be calculated based upon the residential category for a parcel and/or the nonresidential parcel's impervious area and/or a parcel's gross area and an administrative fee, depending on the applicable Utility Rate Structure, as pursuant to the provisions of the Beaufort County Ordinance listed in Section 1.02.

2.06 *Stormwater Utility User Fee; Single Family Unit Rate (SFU).* Per "Option A" of the 2015 Utiltiy Rate Study, the single-family unit fee rate shall be defined as the impervious area measurements obtained from a statistically representative sample of all detached single-family structures within Beaufort County. The representative value will be 4,906 square feet

2.07 *Stormwater Utility User Fee; Administrative fee.* For "Option A" rate structures, the Administrative fee is a portion of the SFU and determined per Section 4.01 of this Agreement. Per "Option C or E" of the 2015 Utility Rate Study, the Administrative fee is a fixed cost per billable account and includes costs to the Utility not directly applicable to the improvements of

the property, such as administrative costs, public education and outreach, and water quality monitoring. For "Option C or E" rate structures, the Administrative fee is determined per Section 4.01 of this Agreement.

2.08 *Stormwater Utility User Fee; Countywide Infrastructure Fee (CWI).* Per the 2015 Utility Rate Study, the countywide infrastructure fee is based on GIS data obtained per Article 8 herein. It is a fee applicable to each Town for the operation and maintenance cost of the county owned infrastructure defined in Section 5.07, collected and paid directly to the County.

2.09 *Stormwater Utility User Fee; Gross Area fee (GA).* Per "Option C or E" of the 2015 Utility Rate Study, the Gross Area fee is calculated from the area in acres of a parcel of land as measured from GIS data obtained per Article 8 herein.

2.10 *Stormwater Utility User Fee; Impervious Area fee (IA).* Per "Option C or E" of the 2015 Utility Rate Study, the Impervious Area fee is based on impervious area measurements calculated in the same manner as the SFU.

2.11 *NPDES:* The National Pollutant Discharge Elimination System stormwater regulatory program established by the United States Environmental Protection Agency to address pollutants in stormwater discharged to waters of the United States. Phase II of this regulatory program impacts communities under 100,000 in population, small construction sites between one acre and five acres, and industrial sites owned and operated within communities under 100,000 population.

2.12 *Public Stormwater:* Stormwater runoff which is conveyed through a public drainage easement or public road right of way, and/or which some portion is generated from a public road right of way.

2.13 *Stormwater Infrastructure:* Real property, interests in real property, improvements to real property such as ditches, drains, pipes, culverts, catch basins, pumps, post-construction best management practices (BMPs), or the like, or any combination of them, used or useful in the collection and disbursement of storm and surface water, or the control of flooding. As used herein, Stormwater Infrastructure does not include drainage systems or facilities that are not publicly owned, and which do not carry public stormwater.

2.14 *Stormwater Management:* Control of storm and surface water, erosion, stormwater quality protection and flooding through the use of Stormwater Infrastructure, and the creation and enforcement of development standards related to storm and surface water.

2.15 *Stormwater Management Plan:* The plan(s) developed by the County and Town that addresses planning, design and construction of capital improvements to the Stormwater Infrastructure; acquisition of real property or interests in real property for the purposes of Stormwater Management; maintenance and repair of Stormwater Infrastructure; regulation of the use of Stormwater Infrastructure; acquisition of equipment and other assets; regulation of impacts including any that may be mandated under the NPDES Phase II regulations, contracting with engineering, financial, legal, construction and other professionals for services in support of the Stormwater Utility, emergency preparedness related to storms and hurricanes, acquisition or construction of Stormwater Infrastructure, or any other functions required, useful or prudent for a program of Stormwater Management.

2.16 *Stormwater Utility:* The administrative section of the County's Stormwater Department created for the purposes of planning, designing, overseeing, funding, building, and maintaining Stormwater Infrastructure, either directly or through cooperative arrangements with other

governmental bodies; and for administering and managing Stormwater Management throughout Beaufort County.

2.17 *Town:* Town of Bluffton, South Carolina.

ARTICLE 3 - TERM OF THIS AGREEMENT

3.00 *Term of This Agreement:* The term and duration of this Agreement shall be as follows in this Article 3.

3.01 *Initial Term of this Agreement:* The Initial Term of this Agreement shall be for a period of ten (10) years, commencing on the date the Agreement is signed by both the Town and the County, whichever comes last.

3.02 *Periodic Review of this Agreement:* The Beaufort County Stormwater Implementation Committee (SWIC) shall conduct periodic review of this Agreement to insure that it remains current with the state of the art stormwater management and practices applicable to coastal areas and shall provide recommendations for updates to the agreement if necessary.

3.03 *Extension of this Agreement:* The term of this Agreement may be extended at any time by the mutual agreement of the parties hereto, or upon the expiration of the initial ten (10) year term set forth in Article 3.01 above.

3.04 *Termination of this Agreement:* This Agreement may be terminated by either party hereto, by delivering written notice of the termination to the other party. Termination under this Article shall only be effective on the final day of any given County fiscal year. The written notice of termination shall be provided by the party terminating the Agreement no less than one hundred eighty (180) days prior to the date the termination will be effective.

3.05 *Effect of Termination:* Upon termination of this Agreement under any provision of this Article 3, or otherwise, all rights and obligations of any party hereto, specifically including but not limited to the right of the County to charge Stormwater Utility User Fees to property owners in the Town, shall immediately end.

3.06 *Conveyance of Assets:* Upon termination of this Agreement under any provision of this Article 3, the County shall convey to the Town all of its right, title and interest in any Stormwater Infrastructure, including any stormwater easements, within the municipal limits of the Town. However, this shall not include Stormwater Infrastructure on County owned parcels or County road rights of way (otherwise known as Countywide Infrastructure, CWI, as defined in Section 5.07) within the limits of the Town.

3.07 *Rebate of User Fees:* Upon termination of this Agreement under any provision of this Article 3, the County shall return to the Town any collected but unspent or unobligated Stormwater Utility User Fees collected from within the Town Limits.

ARTICLE 4 – FINANCE AND FUNDING

4.00 *Financial and Funding Relationship:* The Town shall provide the County with its Stormwater Utility User Fee Rate for its upcoming fiscal year prior to June 30 each year of this Agreement. This will be in the form of a letter to the County Administrator from the Town Manager.

In the event the Town fails to submit this letter in accordance with Article 4 of this Agreement, the previous year's rate shall apply. The Town shall also provide to the County an annual report of its stormwater fee expenditures from the previous fiscal year. This report shall be delivered

by September 30, or as soon as the previous fiscal year's financial records are complete, each year this Agreement is in effect.

4.01 *Use of Revenue:* In accordance with the provisions of S. C. Code Ann. 48-14-120(C) (Supp. 2010), and S. C. Regs. 72-310 (Supp. 2010), all Stormwater Utility User Fees collected within the Town, less an administrative fee, shall be returned to the Town. The administrative fee is to be calculated as a fixed dollar amount for each unit billed and collected by the Stormwater Utility. The billable unit shall be either a Per Account charge or a charge per SFU, depending on the applicable Utility Rate Structure. The Utility shall define its administrative costs each year during the annual budget process. The Beaufort County Stormwater Implementation Committee (SWIC) shall conduct annual reviews of the Utility's administrative budget and recommend to the municipalities and County any changes to the amount billed per Account or SFU and the SWIC and Utility shall provide the Town an itemized proposal and a written explanation for adjustments for the administrative services and deliverables to be provided in the coming fiscal year. This proposal shall be submitted to the Town by February 15 of each calendar year. The Town shall provide a written recommendation of acceptance to the Utility by April 1 of the same year. Once agreed upon, this shall serve as the basis for the annual administrative fee to be calculated per Town Account or SFU, and included in each entity's annual budget.

(a) The administrative fee shall be used by the County to defray the County's administrative costs in managing the Stormwater Utility.

(b) The Town shall use Stormwater Utility User Fees to provide Stormwater Management within the Town, including, but not limited to:

(i) The acquisition, design, construction, and maintenance of Stormwater Infrastructure, or repayment of bonded indebtedness issued to fund construction of Stormwater Infrastructure, in so far as the law and covenants of the bonds allow, or for repayment to the Town for general fund or other funds spent by the Town to fund Stormwater Management activities;

(ii) Acquisition of Stormwater Infrastructure, including any easements or other interests in real property which shall be held in the name of the Town;

(iii) Maintenance of Stormwater Infrastructure by the Town and its contractor(s,) or by direct services of the Stormwater Utility. Charges for services by the Stormwater Utility; shall be negotiated and approved by the County and the Town, as is provided in Articles 4.03, 4.05(a), 5.05, and 5.07 below; The Town shall have the right of non-exclusive use of direct maintenance services, and there shall be no minimum dollar amount required to be spent annually by the Town on any services provided by the Stormwater Utility;

(iv) Plan review and site inspections related to compliance with stormwater ordinances and standards for development within the Town as set forth in Articles 4.05, 4.06 and 4.07 below;

(v) NPDES Phase II permit compliance;

(vi) Payment of bond indebtedness or repayment of funds borrowed

from the general fund or any other fund for the purpose of funding Stormwater Management projects or activities; and,

(vii) Any other services related to Stormwater Management.

4.02 *Further Agreements Authorized:* The Town and the County may negotiate and enter into agreements to share costs and responsibilities related to NPDES permit compliance. Such agreements and cost allocations shall be reflected in each entities annual budget and must be authorized by the Town Council and County Council.

4.03 *Cost of Services:* If the Town chooses to utilize the direct services of the Stormwater Utility, however described, they shall be accounted for at the County's actual cost of the equipment, materials, and personnel utilized in the delivery of the services.

4.04 *Setting of Stormwater Utility User Fee Rate (Per Account, IA, GA, and SFU's):* The Town shall be responsible each year for setting the Stormwater Utility User Fee Rate to be assessed on parcels within the Town. The Stormwater Utility User Fee rate shall be set in accordance with S. C. Code Ann. 48-14-120(C) (Supp. 2010), and S. C. Regs. 72-310(G) (Supp. 2010), or any other applicable law or regulation.

4.05 *Plan Review and Site Inspection:* For all activities that constitute development within Town limits, the Town will provide review of plans and site inspections to ensure compliance with applicable laws, ordinances and regulations related to storm and surface water, erosion control and flooding.

4.06 *Coordination of Services:* The Town shall identify a representative of its staff to serve as the contact person and coordinator for Stormwater Management Services, including services

provided by the County within the Town, long range planning and water quality initiatives such as the NPDES Phase II requirements compliance, notification of problems, facilitating access within any planned or future Planned Unit Developments within the Town, and advising the County on site-specific conditions within the Town.

ARTICLE 5 – ADMINISTRATION OF STORMWATER UTILITY

5.00 *Stormwater Utility:* The County has established a Stormwater Utility that administers funds and conducts a Stormwater Management program throughout the County.

5.01 *Stormwater Management Plan:* The County and Town shall have the responsibility to develop and maintain a Stormwater Management Plan to be administered by the Beaufort County Stormwater Implementation Committee (SWIC).

5.02 *Relationship of Plan to Agreement:* The Stormwater Management Plan developed and maintained by the Beaufort County Stormwater Implementation Committee (SWIC) shall incorporate the obligations of the County and Town under this Agreement. In the case of any conflict between the provisions of the Stormwater Management Plan and this Agreement, the provisions of this Agreement shall control.

5.03 *Stormwater Utility User Fees:* The Stormwater Utility shall bill and collect parcel based Stormwater Utility User Fees from property owners, tenants, or other appropriate parties, pursuant to its authority and subject to any intergovernmental agreements, including this Agreement, and may also apply for, acquire and use any other funding from any public or private source in support of the Stormwater Management Plan as allowed by law.

5.04 *County Responsibilities:* The County, through the Stormwater Utility, shall have the following responsibilities:

(a) *Collection and Distribution of Fees:* Stormwater Utility User Fees within the Town limits shall be charged and collected by the County in accordance with the provisions of Article 4.0 of this Agreement; the Stormwater Utility User Fees shall be collected in accordance with S. C. Code Ann. 48-14-120(C) (Supp. 2010), and S. C. Regs. 72-310(G) (Supp. 2010), or any other applicable law or regulation, and shall not include provisions for relief from the payment of the Stormwater Utility User Fees; the County shall distribute the Town's Stormwater Utility User Fees less the County administrative costs as defined in Article 4.01, in the same manner as ad valorem taxes are distributed for each year this Agreement is in effect;

(b) *Provision of Services:* Provision of the services required under this Agreement.

(c) *Budgeting and Expenditure:* Setting the budget for the Stormwater Utility, and spending the revenues in accordance with any applicable ordinances or agreements, including this Agreement;

(d) *Administrative Activities:* Managing all administrative activities of the Stormwater Utility, including but not limited to, fee assessment, collection and distribution, maintenance of accounting records, maintenance of stormwater data, implementation of the master plan, acquisition of easements, coordination with other agencies, reporting to the Stormwater Utility Board;

(e) *Accounting:* Maintaining an accounting of revenues and expenditures on a jurisdictional or geographic basis, as may be set or described under any applicable ordinance or agreement, including this Agreement, the County shall provide the Town with an itemized annual accounting of all Stormwater Utility User Fees within the Town limits in the form of a budget report, including but not limited to: how parcel fees were determined, calculated, and assessed; total fees collected; total Administrative costs retained by the County; total fees in arrears, on which parcels and the status of the collection attempt(s) on such parcels; fee credits applied for; fee credits paid; and fees that required adjustment since the last billing. This budget report shall be parcel based and provided to the Town annually prior to February 1st throughout the term of this agreement as an electronic document compatible with the most current version of Microsoft Office. The County shall also maintain an annual accounting of all administrative costs associated with operating the Utility. Either the Town or County, at the sole expense of the requesting jurisdiction, may request a professional audit of any of the budget reports;

(f) *Operation and Maintenance:* At the direction and approval of the Town, provide for the operation and maintenance of Stormwater Infrastructure within the Town; and,

5.05 *Delivery of Services:* The County shall coordinate the delivery of services hereunder through the Town Manager or his designee, via a Job Order Process as agreed to by the Town and County. All delivery of County services upon parcels within the Town limits shall be

approved in writing by the Town before any work is performed or any funds may be returned to the County, and all delivery of stormwater infrastructure services within County Rights of Ways shall be coordinated with the Town.

5.06 *Coordination with Other Jurisdictions:* From time to time a need for coordination between all incorporated jurisdictions within the County and the County may occur, and it shall be the responsibility of the County to facilitate such coordination. The County will work with designated representatives from all jurisdictions within the County to ensure effective communication regarding issues impacting the Stormwater Infrastructure and the Stormwater Management Plan.

5.07 *Qualifications and Extents of Service:* Stormwater infrastructure in public road Rights of Ways, whether State, County or Municipal, shall be maintained by the road owner, as these areas are exempt from Stormwater Utility User Fees per Section 99-109 (b) of the County Ordinance. The Town shall retain the right to determine the qualifications for, extent of, and level of service required to maintain the Stormwater Infrastructure within the limits of the Town, with the exception of County and State road Rights of Way, which shall be designed and maintained in accordance with their current standards.

5.08 *Fee Credits:* The Town shall have the authority to review and comment on all County stormwater fee credit applications requested upon parcels within the Town limits prior to such adjustments being made.

5.09 *Easements:* The Town and County will allow mutual blanket encroachments upon each other's existing easements, but only to enable the Town and/or County to perform stormwater utility related work within the limits of the Town.

ARTICLE 6: STORMWATER ORDINANCES AND DEVELOPMENT STANDARDS

6.00 *Applicable Standards:* The current hydrologic and hydraulic engineering and design standards of the County and Town shall prevail in the design, construction, operation and maintenance of any portion of the Stormwater Infrastructure within the County and Town, respectively, unless superseded by the hydrologic and hydraulic engineering and design standards of the State, as may be required for specific work performed in State rights of way. In all cases, the County or Town standards shall prevail within the applicable jurisdiction unless determined to be less stringent than State standards.

6.01 *State or Federal Laws or Regulations:* The Town and the County shall at all times comply with any applicable State or Federal Laws or regulations relating to Stormwater Management, Stormwater Infrastructure, erosion control or pollution.

6.02 *Regulatory Obligations of the County and Town:*

The County and Town shall adopt and enforce ordinances and development standards as necessary to comply with State and Federal standards regarding stormwater management, erosion and sedimentation, pollution control, and flooding. Minimum water quality controls in jurisdictions shall be protective enough to reach and maintain state designated water uses.

6.03 *Plan Review and Site Inspection:* The Town and County shall be responsible for the review and approval of all development plans within their respective jurisdictions, to ensure that all applicable regulations pertaining to construction site erosion, sedimentation, and pollution control as well to post-construction stormwater quantity and quality control are met.

The County and Town shall be responsible for providing inspections during construction of all County and Town owned stormwater systems, respectively. The County and Town will continue its practice of inspection and review of privately owned stormwater systems during construction and upon completion to ensure that construction conforms with the approved development stormwater plan.

ARTICLE 7 – NPDES MS4 PHASE II PERMIT COMPLIANCE

7.00 *NPDES Compliance:* In 2015, Beaufort County, the Town of Bluffton, and the Town of Bluffton were designated by the State of South Carolina for compliance with the NPDES Program. the County and Town shall be responsible for the development of the NPDES MS4 Phase II permit application, the development of Best Management Practices required by the permit, and the implementation of the program of Best Management Practices set forth in the permit. Should the Town of Port Royal or the City of Beaufort be designated by the State of South Carolina for compliance with the NPDES program, the provisions of this section shall also apply to the Town.

7.01 *Roles and Responsibilities:* The Town and County shall hold separate NPDES MS4 Phase II permits and shall each be responsible for maintaining compliance with their respective permit requirements. The Town may request to "co-permit" or share MS4 Phase II permitting with the County or another Town or City, as allowed by Article 9 of this Agreement, as allowed by State law, and as encouraged in the State of South Carolina General Permit for MS4 Phase II communities.

7.02 *Coordination of Activities:* It is expected that some aspects of NPDES MS4 Phase II

requirements will lend themselves to coordination and cooperation between the Town and the County. In such instances, coordination between the Town and the County shall be on the basis of a specific Minimum Control Measure (MCM) and shall be established by a separate written agreement that specifies the objectives, product deliverables, schedules, funding distribution, and the roles and responsibilities of each party in addressing these measures.

7.03 *Annual Reporting:* The Town and County will each be responsible for preparing an annual report documenting the activities undertaken in support of NPDES MS4 Phase II permit requirements during the previous year and submitting the report to the South Carolina Department of Health and Environmental Control.

7.04 *Permit Related Costs:* All costs related to the NPDES MS4 Phase II permit shall be borne by the permit holder. In instances where the Town and County coordinate to meet permit requirements, costs may be shared on a basis that is detailed in a separate written agreement.

ARTICLE 8 – DATA ACQUISITION AND MANAGEMENT

8.00 *Roles and Responsibilities:* The Town and County shall each be responsible for acquiring and maintaining data sets that are relevant to Stormwater Management in their respective jurisdictions.

8.01 *Cost Sharing:* Cost sharing agreements for data acquisition may be made between the Town and County on a project-specific basis. The terms and details of any cost sharing agreement shall be detailed in a separate written agreement between the Town and County.

8.02 *Data Sharing*: The Town and County shall share acquired data at the request of the other. In such instances the Town and County will agree to abide by each entity's current data

distribution policy.

8.03 *Data Types:* Types of data that the Town and County will acquire, maintain, and may share include but are not limited to, GIS data, aerial photography, LIDAR data, water quality monitoring data, stream gage data, financial and accounting data.

ARTICLE 9 – OTHER AGREEMENTS

9.00 *Scope and cost sharing:* From time to time various projects may be shared in scope and/or cost between the County and the Town, or the County and multiple Municipalities within the County via Memos of Agreement, Memos of Understanding, Contracts, and/or Joint Resolutions.

9.01 *Agreement Recommendations:* The Beaufort County Stormwater Implementation Committee (SWIC) shall be the vehicle whereby agreements of project scope and cost sharing between the County and multiple Municipalities within the County are reviewed and recommended to the Municipalities and County. It is understood that the Beaufort County Stormwater Implementation Committee shall have no authority to financially commit the Town or County to any project of any type and only will provide technical recommendations for such projects. For agreements solely between the Town and the County, the Beaufort County Stormwater Implementation Committee (SWIC) review is not required.

9.02 *Agreement approvals:* Other agreements between the County and the Town must be approved by the Town Council and the County Council or their designees.

9.03 Funds Distribution: These Agreements will define how funds are distributed, either by invoice or as part of the Per Account Administrative fee collected by the County.

ARTICLE 10 - MISCELLANEOUS

10.00 *Provisions Applicable to This Agreement:* The following general provisions are applicable to this Agreement:

10.01 *Binding Effect:* This Agreement shall inure to the benefit of and shall be binding upon the Town and County and their respective successors and assigns, if any are permitted hereunder.

10.02 *Amendment, Changes and Modifications:* Except as otherwise provided herein, this Agreement may not be effectively amended, changed, modified or altered without the written consent of the Town and the County.

10.03 *Severability:* In the event that any provision of this Agreement shall be held invalid or unenforceable by any court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provision hereof.

10.04 *Execution in Counterparts:* This Agreement may be simultaneously executed in several counterparts, each of which shall be an original and all of which shall constitute but one and the same instrument.

10.05 *Applicable Law:* This Agreement shall be governed by and construed in accordance with the laws of the State of South Carolina.

10.06 *Captions:* The captions or headings herein are for convenience only and in no way define, limit or describe the scope or intent of any provisions or sections of this Agreement.

10.07 *Plural/Singular:* Where appropriate, the use of the singular herein shall include and be deemed to be the plural, and the use of the plural herein shall be deemed to include the singular.

10.08 *No Third Party Beneficiaries:* The Town and the County hereto affirmatively represent that this Agreement is made solely for the benefit of the parties hereto and their respective successors and assigns and not for the benefit of any third party who is not a signature party hereto. No party other than the signature parties and their respective successors and assigns hereto shall have any enforceable rights hereunder, or have any right to the enforcement hereof, or any claim for damages as a result of any alleged breach hereof.

10.09 *Notices:* All notices, applications, requests, certificates or other communications hereunder shall be sufficiently given and shall be deemed given when delivered in person, via electronic mail, or mailed by regular first class mail, postage prepaid (in such case, delivery shall be deemed complete upon mailing), addressed as follows, or to such other place as may be designated in writing by the parties.

To the Town: THE TOWN OF BLUFFTON
Marc Orlando, Manager
20 Bridge St., PO Box 386
Bluffton, SC 29910

To the County: BEAUFORT COUNTY, SOUTH CAROLINA
Gary Kubic, Manager
Post Office Box 1128
Beaufort, SC, 29902

10.10 *No Waiver:* No failure of either party hereto to exercise any power or right given to such party hereunder, or to insist on strict compliance by any other party to its obligations hereunder, and no custom or practice of the parties at variance with the terms hereof shall constitute a waiver of any party's right to thereafter demand strict compliance with the terms of this Agreement.

10.11 *Further Assurances and Corrective Documents:* The Town and the County agree to do, execute, acknowledge, deliver or cause to be done all such further acts as may be reasonably determined to be necessary to carry out this Agreement and give effect to the provisions hereof. The Town and the County agree that each shall, upon request, execute and deliver such other or corrective documents as may be reasonably determined to be necessary to carry out this Agreement and each of the provisions hereof.

In Witness Whereof, The Town of Bluffton, South Carolina, and Beaufort County, South Carolina, by and through their duly authorized officers, have set their hands and seals on this 1st day of July, 2016.

WITNESSES:

THE TOWN OF BLUFFTON,
SOUTH CAROLINA

By: _____

Lisa Sulka, Mayor

Attest: _____

Marc Orlando, Town Manager

WITNESSES:

BEAUFORT COUNTY, SOUTH CAROLINA

By: _____

Paul Sommerville, Chairman

Attest: _____

Gary Kubic, County Administrator

South Carolina NPDES Permit # SCR030000
Small Municipal Separate Storm Sewer System (SMS4)
Annual Report Template

III. Minimum Control Measures (MCM)

B. Minimum Control Measure 1: Public Education and Outreach on Storm Water Impacts (4.2.1, 5.3)

Use the table below to summarize outreach strategies, goals, and progress for the current reporting year. In the "activities conducted and planned" section, focus on activities that were conducted in the last reporting year and those that are planned for the upcoming reporting year, providing implementation dates. Add rows where needed and attach additional sheets if necessary.

In the "Pollutant of Concern" column in the following tables, the following abbreviations are used:

Abbreviation	Pollutant of Concern
POC #1	Post-construction maintenance
POC #2	Freshwater (runoff volume)
POC #3	Litter
POC #4	Bacteria
POC #5	Nutrients
POC #6	Sediment
GSA	General Stormwater Awareness
CM	Consortium Management
FOG	Fats, Oils, and Grease
IDDE	Illicit Discharge Detection and Elimination

Please see the attached "2016-2018 Strategic Regional Stormwater Outreach Plan" for a complete list of all activities planned for the upcoming year. Below are last year's accomplishments as well as the activities that are furthest along in their planning stages

Pollutant of Concern	Outreach Strategy *(include target audiences)*	Measurable Goal(s)	Progress on Goal(s)	Activities Conducted and Planned *(specific implementation dates)*	Number of People Reached
CM	Carolina Clear Environmental Attitudes, Knowledge, and Perceptions Survey (*General public*)	The third iteration of this Carolina Clear survey will be conducted 2018 to shape outreach activities and measure changes over time.	In Planning	This survey is scheduled for 2018	N/A
CM, GSA	Lowcountry Stormwater Partners logo development (*General public*)	This logo is used for branding purposes and to highlight the consortium's activities within the Hilton Head Urbanized Area.	Completed	The Lowcountry Stormwater Partner's logo was finished in the Spring of 2017.	N/A
CM, GSA	Lowcountry Stormwater Partners partner recruitment		Ongoing	By engaging with local organizations and involving them in the consortium has helped to increase Lowcountry Stormwater Partners' reach and ability to provide stormwater education and involvement opportunities.	4

CM, GSA	Lowcountry Stormwater Partners 2016 Annual Report (*General public*)	This report highlights the work done by the Lowcountry Stormwater Partners consortium in 2016.	Completed	The plan was written, submitted to DHEC, and made accessible to the public.	N/A
GSA	Staff training on good housekeeping (*Technical staff, engineers, developers, field staff, maintenance/facilities staff, supervisory staff, administrators, stormwater managers*)	To educate staff on general stormwater issues, IDDE, and good housekeeping practices and to be compliant with MCM 6.	Completed	The Town of Hilton Head Island identified all their staff to be trained. Training occurred on 2/27/17 (27 participants), 7/20/17 (8 participants), and 11/15/17 (7 participants).	45
GSA	SESWA Clean Water Act training (*Technical staff, engineers, developers, supervisory staff, administrators, stormwater managers, field staff, maintenance, facilities*)	This training covered stormwater information and how the Clean Water Act affects staff.	Completed	This training occurred on 9/1/17 and was hosted by Beaufort County.	4
GSA	Provided a presentation on Clemson Extension and stormwater (*Residents, elected & appointed officials, technical staff, supervisory staff*)	This was an overview as to what the Clemson Cooperative Extension Service is, how it was formed, and what local services it offers. It also discussed the Lowcountry Stormwater Partners and gave a brief overview of stormwater issues.	Completed	This presentation was given to the City of Beaufort Neighborhood Association meeting on 11/15/2017.	23
GSA	Stormwater fact sheet (*Elected & appointed official, general public*)	Develop a fact sheet with an overview of local stormwater issues that can be given to newly appointed officials and new residents.	In Planning	This fact sheet will be developed in tandem with Sumter Stormwater Solutions.	N/A
GSA	Provided a Lowcountry Stormwater Partners overview and update (*Elected & appointed officials*)	This presentation detailed the 2016-2018 Lowcountry Stormwater Partners Strategic Regional Stormwater Outreach plan, the 2016 Lowcountry Stormwater Partners Annual Report, and current activities within the consortium.	Completed	This presentation was given on 3/15/2017 at the Stormwater Utility Board Meeting	21
GSA	Carolina Clear mass media campaign (*General public*)	The Lowcountry Stormwater Partners contributed to Clemson Extension's Carolina Clear's 2017 "Healthy Ponds" mass media campaign. Marketing materials, online ads, and	Ongoing	As part of this campaign, the Lowcountry Stormwater Partners hung two billboards along I-95 in Beaufort County. *These data is based off of 2016 numbers*	152800

		other marketing materials were displayed in Beaufort County to bring awareness to stormwater pond maintenance.			
GSA	Lowcountry Stormwater Partners Partner Facebook (*General public*)	These pages are managed by partner organizations but will assist the Lowcountry Stormwater Partners in spreading information about public participation opportunities and other relevant information. Their effectiveness will be tracked through "Likes".	Ongoing		68192
GSA	Preapplication review and comment (*Technical staff, engineers, developers*)	Started including sustainability suggestions on plan reviews submitted prior to permit application.	Ongoing	Town of Hilton Head Island documented 4 of these in 2017. Suggestions included LID methods to replace conventional stormwater practices on developing sites.	30
GSA	Educational session for the Town of Hilton Head Design Review and Board of Adjustment (*Elected & appointed officials and high-level staff*)	This presentation served to educate key audiences on the use of native plants to reduce stormwater pollution and therefore improve water quality.	Completed	Presentation on using native plants in the landscape, with emphasis on improved stormwater quality via using less pesticides, fertilizer and irrigation and decreasing stormwater volume by having native planted areas decrease speed of runoff and increase infiltration. Date unavailable.	12
GSA	Urban Trees vs. Urban Forests: Why Biodiversity Matters lecture (*Higher education students*)	This presentation explains the link between soil biodiversity, above-ground biodiversity, and human health	Completed	This presentation was given at USCB: Beaufort on 2/10/17. Stormwater and water quality are discussed throughout.	20
GSA	Presentation to the Town of Hilton Head Island Design Review Board (*Elected & appointed officials and high-level staff*)	This presentation described the benefits and links between on native plants and biodiversity.	Completed	This presentation was given on3/14/17 and discusses how board decisions can positively/negatively affect native plants and biodiversity.	10
GSA	Annual e-mail blast (*Real estate agents*)		Completed	The Town of Hilton Head Island sent this e-mail on sea turtle, manatee and alligator values, functions and conservation to all real estate and rental agencies doing business on Hilton Head Island to educate island visitors.	100
GSA	Wood and Partners presentation (*Landscape architects and planners*)	The Town of Hilton Head Island gave a presentation to largest Landscape/Land Planning firm on island on importance of maintaining plant biodiversity and how using native plants benefits water quality, wildlife, tourism and human quality of life.	Completed	This presentation was given on 8/3/17.	20

GSA	Community Development Department Arbor Day Tree Planting (*General public*)	The goal of this event was to engage citizen in a community involvement activity and to mitigate water quality and other environmental concerns by planting trees. Its effectiveness was determined by the number of volunteers and trees planted.	Completed	On 12/1/17, the volunteers and Town of Hilton Head Island staff planted 75 seedling live oaks in hurricane damaged areas of 2 public parks to help replace some of the trees lost to hurricanes	100
GSA, CM	Lowcountry Stormwater Partners consortium meetings (*Consortium members, general public*)	These meetings are for partners to update each other and to address consortium business such as workshops, current events, etc.	Ongoing	One meeting was held on 7/18/2017. 15 individuals attended.	15
GSA, CM	Lowcountry Stormwater Partners consortium meetings (*Consortium members, general public*)	These meetings are for partners to update each other and to address consortium business such as workshops, current events, etc.	Ongoing	One meeting was held on 11/28/2017. 13 individuals attended.	13
POC #1, GSA	Toured ponds and offered pond management advise to the Rose Hill Plantation board (*Residents*)	The Rose Hill Plantation Board invited Clemson Extension into their community to discuss management strategies for creating healthier, more sustainable stormwater ponds.	Completed	The Clemson Extension Water Resources agent was invited to the Rose Hill Plantation because of their participation in the 2017 Beaufort Area Stormwater Pond Conference. She visited on 11/1/2017, saw 8 ponds and recommended BMPs to improve their function. She will partner with them in the future as part of their upcoming pond education campaign.	3
POC #1, GSA	Post Construction Best Management Practice Inspector (*Technical staff, stormwater managers, field staff*)	Post Construction BMP Inspector program provides online and field-based training focused on inspection and maintenance of best management practices used for stormwater management. Students have the chance to discuss and view bioswales, dry detention basins, wet detention basins, green roofs, pervious pavement, rainwater harvesting and more. Its success will be measured in number of participants.	Ongoing	The class was offered twice in 2017, with field days hosted at the Trident Technical College Campus, in North Charleston (10/25/17) and at Furman University in Greenville (6/1/17). A total of 46 individuals participated in BMP in 2017.	46
POC #1, POC #6, GSA	Certified Erosion Prevention and Sediment Control Inspector (CEPSCI) (*Technical staff, stormwater managers, field staff, construction workers*)	The purpose of the CEPSCI Program is to educate field personnel on the proper installation, maintenance and inspection of erosion prevention and sediment control measures at construction sites to meet state and local	Ongoing		1208

		regulations. Its success will be measured in number of participants.			
POC #1, GSA	Certified Stormwater Plan Reviewer (CSPR) (*Technical staff, planners, engineers, stormwater managers, developers*)	The purpose of the CSPR Program is to educate personnel on the proper design and review of stormwater and sediment control plans for development sites to meet state and local regulations. Its success will be measured in number of participants	Ongoing		55
POC #1, POC #2	Meeting to discuss community concerns with The Farm at Buckwalter HOA (*Residents*)		Completed	The Town of Bluffton met with The Farm at Buckwalter HOA to discuss their concerns with stormwater and flooding on 10/24/17.	38
POC #1, POC #2, GSA	Stormwater Ponds Collaborative outreach materials (*Residents, stormwater pond managers*)	These present stormwater science in a language that reaches general audiences.	Completed	As part of the Stormwater Ponds Collaborative Sea Grant has created outreach materials that will be available on the Collaborative webpage hosted on the SC Sea Grant site. This webpage will be online by the new year, pending a new hire IT at the Consortium.	N/A
POC #1, POC #6, GSA	International Erosion Control Association's "Long Term Maintenance Operation Success" training (*Technical staff, engineers, developers, supervisory staff, administrators, stormwater managers, field staff, maintenance, facilities*)	This IECA training covered BMP maintenance and erosion control measure to staff.	Completed	This training took place on 4/27/17 and was hosted by Beaufort County.	7
POC #1, POC #2, POC #3, POC #4, POC #5, GSA	Educational stormwater display at the Port Royal Farmer's Market (G*eneral public*)	This display will be source of stormwater and better management practice information and consist of brochures, post cards, fact sheets, etc. This strategy's effectiveness will be determined by the amount of people reached.	Ongoing	Clemson Extension Agents and Master Gardener volunteers were present with stormwater outreach materials at 3 farmer's markets.	N/A
POC #1, POC #2, POC #3, POC #4, POC #5, GSA	Presentation to Heritage Academy (*Youth*)	This presentation gave an overview of golf course sustainable practices and Town's approach to sea level rise.	Completed	The Town of Hilton Head Island gave a presentation to Heritage Academy high school seniors on 5/8/2017.	100
POC #1, POC #2, POC #3, POC #4,	2nd Annual Charles Fraser Sustainable Resort Development Conference	The goal of this conference was to arm attendees with the information, tools, and	Completed	This conference was held on 9/6/2017 and 100 individuals attended.	100

POC #5, GSA	(*Homeowners, commercial businesses, PUDs*)	motivation needed to implement sustainable practices at their own resorts and organizations.			
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6	Hurricane Preparedness for HOA's (*Residents*)	The goal of this presentation was to help reduce flooding caused by hurricanes and a lack of maintenance on stormwater BMPs in neighborhoods.	Completed	This presentation, given of 5/25/17, focused on the importance on BMP maintenance to reduce flooding. It was given by The Town of Bluffton and the Bluffton Police.	10
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6	Hurricane Preparedness for HOA's (*Residents*)	The goal of this presentation was to help reduce flooding caused by hurricanes and a lack of maintenance on stormwater BMPs in neighborhoods.	Completed	This presentation, given of 5/31/17, focused on the importance on BMP maintenance to reduce flooding. It was given by The Town of Bluffton and the Bluffton Police.	14
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6	Article in the Island Packet (*General public*)	This article was about reducing flooding caused by hurricanes and a lack of maintenance on stormwater BMPs in neighborhoods.	Completed	This article was published on 5/26/17 and is available at http://www.islandpacket.com/news/weather/hurricane/article152807924.html	N/A
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Distribution of BMP signage (*General public*)	Signage will identify and describe stormwater BMP function and importance. It may be accompanied by articles and HOA news materials. At least one new BMP will be given a sign each year.	In Planning; Ongoing	Two BMP demonstration sites have been selected, the signs just need to be printed and erected.	N/A
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Stormwater educational displays in public buildings (*General public*)	These displays are a source of stormwater and better management practice information and consist of brochures, post cards, fact sheets, kiosks, etc.	Ongoing	There are currently six displays: one at Beaufort County Clemson Extension, one at Beaufort County Public Works, one at the Town of Hilton Head Island, one at the Town of Port Royal town hall, one at the Beaufort County Administration building, and one in the Town of Bluffton Watershed Management Division.	900
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Carolina Clear website (*General public*)	The website's goal is to provide a clearing house of stormwater information and public participation opportunities. Its use will be tracked through site visits.	Ongoing		18150
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Carolina Clear Facebook (*General public*)	The goal of this page is to provide a forum for public participation, to increase awareness of storm water's effects on water quality, and increase awareness of public participation opportunities. Its effectiveness will be tracked through views.	Ongoing		25372

POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Carolina Clear YouTube (*General public*)	The channel's goal is to provide a clearing house of stormwater information. Its use will be tracked through site views.	Ongoing	This channel hosts 76+ videos that include television commercials, local channel community segments, how-to videos, street interviews, and more.	6612
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	SC Waterways factsheets (*General public*)	These publications' goal is to teach citizens how to have a positive impact on local water quality through their own gardening and daily practice. Their use will be tracked through views.	Ongoing	There are 36 factsheets available.	N/A
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Hurricane Preparedness for HOA's (*Residents*)	The goal of this presentation was to help reduce flooding caused by hurricanes and a lack of maintenance on stormwater BMPs in neighborhoods.	Completed	This presentation, given of 5/24/17, focused on the importance on BMP maintenance to reduce flooding. It was given by The Town of Bluffton and the Bluffton Police.	5
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA, CM	Changing Tides Newsletter (*General public*)	This newsletter is meant to inform the public about recent, current, and upcoming public education and participation opportunities. Their effectiveness will be tracked through views.	Ongoing	The Changing Tides newsletter was published in January, February, April, May, June, and September. The next is scheduled for the beginning of February.	106
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA, CM	Lowcountry Stormwater Partners website (*General public*)	The website's goal is to provide a clearing house of stormwater information and public participation opportunities. Its use will be tracked through site visits	Ongoing	Website was developed and launched on 1/6/2017. It is periodically updated with relevant information.	530
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA, CM	Lowcountry Stormwater Partners Facebook (*General public*)	The goal of this page is to provide a forum for public participation, to increase awareness of storm water's effects on water quality, and increase awareness of public participation opportunities. Its effectiveness will be tracked through "Likes".	Ongoing		198
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA, CM	2016-2018 Strategic Regional Stormwater Outreach Plan (*General public*)	This plan is a living document which details the framework and requirements of Lowcountry Stormwater Partners public education and involvement activities. It was evaluated by local MS4 partners.	Completed	The plan was written, submitted to DHEC, and made accessible to the public.	N/A
POC #1, POC #2,	Presented the Success with Stormwater	This presentation is an in-depth discussion about the	Completed	This presentation was given to Lowcountry Master Naturalists at	10

POC #4, POC #5, GSA	advanced master naturalist training (*Residents*)	importance of the saltmarsh, how stormwater runoff is created, local POCs, and behaviors/BMPs that homeowners can adopt to reduce their stormwater footprint. Its effectiveness will be determined through evaluations.		Crystal Lake on 12/5/2017.	
POC #1, POC #2, POC #4, POC #5, GSA	Presented the Success with Stormwater advanced master naturalist training (*Residents*)	This presentation is an in-depth discussion about the importance of the saltmarsh, how stormwater runoff is created, local POCs, and behaviors/BMPs that homeowners can adopt to reduce their stormwater footprint. Its effectiveness will be determined through evaluations.	In Planning	This presentation is scheduled to be given to a new group of Lowcountry Master Naturalists on 4/25/18.	
POC #1, POC #2, POC #4, POC #5, POC #6, GSA	Providing HOA stormwater pond binders (*Residents, pond managers*)	These binders serve to help pond owners (particularly residents and HOA boards) maintain their stormwater ponds by providing information and materials pertaining to stormwater pond design, function, inspection, and maintenance.	Ongoing	These binders are available in hard copy at the Clemson Extension Office and online at the Clemson Stormwater Pond website.	N/A
POC #1, POC #2, POC #4, POC #5, POC #6, GSA	Neighbors for Clean Water program (*Residents*)	This program will help residents reduce their stormwater footprint through residential BMP trainings.	In Planning	This program is in the beginning development stages. It will be workshopped at the ACE Basin's NERR's Planning Effective Workshops training in January 2018. From there a program will be created and followed.	N/A
POC #1, POC #2, POC #4, POC #5, POC #6, GSA	SCASM Stormwater Best Management Practices and Water Quality (*Technical staff, engineers, developers, supervisory staff, administrators, stormwater managers, field staff, maintenance, facilities*)	This training by SCASM for staff focused upon BMP design, function, and maintenance and general stormwater information.	Completed	This training occurred on 3/2/17 and was hosted by Beaufort County.	4
POC #1, POC #2, POC #4, POC #5, POC #6, GSA	SESWA Emerging Trends in Stormwater BMP's (*Technical staff, engineers, developers, supervisory staff, administrators, stormwater managers, field staff, maintenance,*	This training by SESWA focused upon new and innovative approached to BMP design, installation, maintenance, etc.	Completed	This training occurred on 3/31/17 and was hosted by Beaufort County	4

	facilities)				
POC #1, POC #3, POC #4, GSA	Lowcountry Stormwater Partners branded giveaways (*General Public*)	Lowcountry Stormwater Partners branded materials will be used to attract the public to Lowcountry Stormwater Partners activities and their effectiveness will be tracked through the amount of merchandise taken.	In Planning; Ongoing	The Lowcountry Stormwater Partners is working with Carolina Promotions to re-order branded rain gauges, pet waste bags, and other materials. 400 LSP water bottles were ordered and handed out at the 17th Annual May River Cleanup.	400
POC #1, POC #3, POC #4, POC #5, POC #6, GSA	Buffer planting designs (*Pond managers, residents, PUD, elected & appointed officials, technical staff, supervisory staff, facilities, maintenance, field staff, developers*)	Pre-designed stormwater pond and saltmarsh buffers will make the implementation of the BMP easier for area residents. Their effectiveness will be tracked by the amount used.	In Planning; Ongoing	The Lowcountry Stormwater Partners use the SCDNR "Backyards Buffer" pamphlet, the Clemson Extension "Shorescape" factsheet, and the Clemson Extension "Rain Garden Manual" planting lists to assist owners create buffer designs. Neighborhood groups like Coosaw Point used these materials after the 2017 Beaufort Area Stormwater Pond Conference.	100
POC #1, POC #4, POC #5	Distribution of geese signage for pond areas and parks (*General public*)		In Planning; Ongoing	Scouting potential locations.	N/A
POC #1, POC #4, POC #5, POC #6, GSA	2017 Beaufort Area Stormwater Pond Conference (*Pond managers, residents, PUD, elected & appointed officials, technical staff, supervisory staff, facilities, maintenance, field staff, developers*)	The conference was designed to help stormwater pond owners/HOA representatives, property management professionals, and pond management professionals learn more about current pond management techniques. The conference was split into two tracks, one for pond owners and one for the more technical pond managers, to better serve these audiences. Its effectiveness was determined through evaluations.	Completed	The 2017 Beaufort Area Stormwater Pond Management Conference took place on 10/19 at USCB's Bluffton campus from 8:30am – 4:00pm. The conference was jointly organized by Clemson Extension and the Lowcountry Stormwater Partners, the South Carolina Sea Grant Consortium, the South Carolina Department of Natural Resources, and the Ace Basin National Estuarine Research Reserve to serve a need within the Lowcountry community. 88% of respondents agreed that the conference was a good use of their time and 100% of respondents reported knowledge gain. Finally, 87% of respondents reported that they learned something at the conference that they would apply in the future.	98

POC #1, POC #4, POC #5, POC #6, GSA	Spring 2017 Master Pond Manager course (*Pond managers, technical staff, supervisory staff, facilities, maintenance*)	Participants in the 2017 Spring Master Pond Manager course actively engage in self-paced lectures, discussion, and quizzes in the online classroom. They covered topics such as pond design, inspection, and maintenance as well as limnology, integrated aquatic plant management, fish management, and best management practice (BMP) function, design, and installation. Course participants also can meet with their instructors face-to-face and to apply what they learned in the classroom to real-world situations during two field days.	Completed	32 participants enrolled in this course offering and installed a 300 sqft shoreline planting.	32
POC #1, POC #4, POC #5, POC #6, GSA	Clemson Stormwater Ponds website (*Pond managers, pond owners*)	The website's goal is to provide a clearing house of stormwater pond information. Its use will be tracked through site visits.	Ongoing		13321
POC #1, POC #4, POC #5, POC #6, GSA	Master Pond Manager course (*Pond managers*)	Attendance and certifications	Ongoing	49 participants, 48 certifications. 32 participants already recorded in the Spring course.	17
POC #1, POC #5, GSA	Rain Garden Clean-Up event (*Residents*)	To maintain a Beaufort County Rain Garden and engage citizens in BMP maintenance.	Completed	Master Gardener volunteers spent three hours weeding, mulching, and pruning the Beaufort County Rain Garden on 6/27/17.	5
POC #2	Water conservation program (*Youth*)	This presentation's goal is to educate and involve children with how water conservation affects water quality and their lives.	Completed	This demonstration was given to Town of Bluffton school children by the Beaufort County Soil and Water Conservation District on 7/20/17 to explains why and how to conserve water through everyday activities.	46
POC #2, GSA	Meeting to discuss the drainage concerns for The Farm neighborhood in the Town of Bluffton (Residents)	Key messages included: 1. function of stormwater ponds 2. maintenance requirements of systems by POA 3. personal activities residents can take	Completed	This meeting was held on 10/24/17 and was attended by 50 people.	50
POC #2, GSA	Water "Cycle" presentation (*Youth*)	This presentation's goal is to educate and involve children with how water quality effects their lives.	Completed	Beaufort County students learned about available potable water, how it travels around the globe, and why it is important to protect our water sources on 10/16/17. This presentation was given by the Beaufort County Soil and Water Conservation District.	150

POC #2, GSA	Tour of Port Royal Cypress Wetland (*Youth*)		Completed	On 11/3/17, Town of Port Royal school children were told how these storm water ponds can capture storm water, settling solids and impurities and then slowly release to outfall. This presentation was given by the Beaufort County Soil and Water Conservation District.	13
POC #2, GSA	Presentation to the Outside Foundation's Kids in Kayaks Program (*Youth*)	The goal of the Kids in Kayaks program in to bring local youth outside and to have them participate in experiential learning about their local ecosystems and natural resources.	Completed	On 5/3/207, the Town of Hilton Head gave a presentation to 6th and 7th graders on the function and values of the salt marsh.	100
POC #2, GSA	Presentation to the Outside Foundation's Kids in Kayaks Program (*Youth*)	The goal of the Kids in Kayaks program in to bring local youth outside and to have them participate in experiential learning about their local ecosystems and natural resources.	Completed	On 10/05/17, the Town of Bluffton presented a hands-on water quality monitoring workshop for the Outside Foundation's Kids in Kayaks program and River Ridge 7th graders.	50
POC #2, GSA	Beaufort County Senior Leadership environment days (*Residents*)	The Leadership Program provides information about civic, social, and educational activities. Beaufort County Senior Leadership expands awareness about daily life in the Lowcountry and helps participants navigate their way toward identifying volunteer and community involvement.	In Planning	The Lowcountry Stormwater Partners were a part of the planning committee for the two classes that center around environmental issues and involvement. The consortium will give presentations on both days, which are 3/28/18 and 4/4/2018, and will assist with informing, training, and recruiting volunteers for the consortium.	
POC #2, GSA	Presentation to the Outside Foundation's Kids in Kayaks Program (*Youth*)	The goal of the Kids in Kayaks program in to bring local youth outside and to have them participate in experiential learning about their local ecosystems and natural resources.	Completed	On 10/12/17, the Town of Bluffton presented a hands-on water quality monitoring workshop for the Outside Foundation's Kids in Kayaks program and River Ridge 7th graders.	20
POC #2, POC #3, GSA	17th Annual May River Cleanup and Earth Day Festival (*Residents, youth, higher education students, teachers, commercial businesses, boat owners, operators, marinas, pet owners*)	The goal of the Annual May River cleanup is to engage and involve citizens in removing litter from their environment and marking storm drain to prevent further litter and stormwater pollution. Its effectiveness will be determined through number of volunteers and pounds of litter removed.	Completed	The 17th Annual May River Cleanup took place on 4/22/17. On that day, 350 volunteers picked up litter along 3 miles of the May River shoreline from 9:00am – 11:30am, for a total of 1,200 volunteer hours. The volunteers collected 2,080 lbs. of solid waste (440lbs of which was recycled) and marked more 50 storm drains in Old Town Bluffton.	325

POC #2, POC #3, GSA	May River Cleanup Participation Challenge Reward presentation (*Youth*)		Completed	The Town of Bluffton and Coastal Kingdom gave MC Riley Elementary School a special presentation on 5/17/2017 as a prize for winning the May River Cleanup Participation Challenge Reward.	150
POC #2, POC #3, GSA	Article in Bluffton Today (*General Public*)	This article covered the 17th Annual May River Cleanup and why litter is bad for water quality.	Completed	This article was published on 3/25/17 and can be found at http://www.blufftontoday.com/opinion/2017-03-25/join-may-river-cleanup	N/A
POC #2, POC #3, GSA	Article on Experience Green's website (*General Public*)	This article covered the 17th Annual May River Cleanup and why litter is bad for water quality.	Completed	This article was published on 3/25/17 and is available at http://www.experiencegreen.org/earthday.html	N/A
POC #2, POC #3, GSA	"Keeping Bluffton Clean" article in the Bluffton Breeze (*General Public*)	This article covered the 17th Annual May River Cleanup and why litter is bad for water quality.	Completed	This article was published on 4/2/17 and is available at https://issuu.com/blufftonbreeze/docs/01-48bbapr17lr.	N/A
POC #2, POC #3, GSA	Article in Nextdoor (*General Public*)	This article covered the 17th Annual May River Cleanup and why litter is bad for water quality.	Completed	This article was published on 4/10/17 and is available at https://nextdoor.com/events/sc/bluffton/17th-annual-may-river-cleanup-7th-annual-earth-day-celebration-1140588	N/A
POC #2, POC #3, GSA	Article in the Island Packet (*General Public*)	This article covered the 17th Annual May River Cleanup and why litter is bad for water quality.	Completed	The article was published on 4/17/17 and is available at http://www.islandpacket.com/entertainment/local-events/article145036359.html	N/A
POC #2, POC #3, GSA	Article on WJCL website (*General Public*)	This article covered the 17th Annual May River Cleanup and why litter is bad for water quality.	Completed	This article was published on 4/17/17 and is available at http://www.wjcl.com/article/bluffton-residents-asked-to-help-in-annual-may-river-cleanup/9518628	N/A
POC #2, POC #3, GSA	Article on American Rivers website (*General Public*)	This article covered the 17th Annual May River Cleanup and why litter is bad for water quality.	Completed	This article was published on 4/22/17 and is available at https://www.americanrivers.org/river-cleanup/may-river-cleanup/	N/A
POC #2, POC #3, GSA	Event on the Town of Bluffton Facebook page (*General Public*)	This article covered the 17th Annual May River Cleanup and why litter is bad for water quality.	Completed	This event was published on 4/22/17 and is available at https://www.facebook.com/events/289150451520368/	N/A
POC #2, POC #3, GSA	Video on the Island Packets' YouTube site (*General Public*)	This video covered the 17th Annual May River Cleanup and why litter is bad for water quality.	Completed	This video was published on 4/22/17 and is available at https://www.youtube.com/watch?v=R12bZNntnN8	48
POC #2, POC #3, GSA	Article in Bluffton Today (*General Public*)	This article covered the 17th Annual May River Cleanup and why litter is bad for water quality.	Completed	This article was published on 4/26/17 and is available at http://www.blufftontoday.com/news/2017-04-26/trash-no-match-may-river-cleanup-volunteers	N/A
POC #2, POC #3, GSA	Event posting on BlufftonEvents.com (*General Public*)	This article covered the 17th Annual May River Cleanup and why litter is bad for water quality.	Completed	This posted was live throughout 4/17 and is available at http://www.bluffton.com/events/event/may-river-cleanup/	N/A

POC #2, POC #3, GSA	Article on Celebrate Hilton Head's Celebrate Bluffton and Beyond	This article covered the 17th Annual May River Cleanup and why litter is bad for water quality.	Completed	This article was posted on 4.26.17 and is available at http://www.celebratehiltonhead.com/web_exclusives/5422/17th-annual-may-river-cleanup-saturday-april-22nd	N/A
POC #2, POC #3, POC #4, POC #5, GSA	Provided the Stormwater and the Saltmarsh presentation and enviroscape demonstration (*Youth*)	This presentation is an introduction to the importance of the saltmarsh, how stormwater runoff is created, local POCs, and behaviors/BMPs that homeowners can adopt to reduce their stormwater footprint. Its effectiveness will be determined through evaluations.	Completed	This presentation and demonstration was given to the Hilton Head Christian Academy senior high marine science and environmental science classes on 11/9/2017.	39
POC #2, POC #3, POC #4, POC #5, GSA	Provided enviroscape demonstrations for the St. Helena Elementary Career Day (*Youth*)	The Enviroscape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution.	Completed	This presentation was given on 3/24/2017 at St. Helena Elementary School to their fifth graders.	41
POC #2, POC #3, POC #4, POC #5, GSA	Provided enviroscape demonstrations for the Tanger Outlet's Touch-A-Truck (*Residents, youth*)	The Enviroscape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution.	Completed	These demonstrations were given on 4/1/2017.	120
POC #2, POC #3, POC #4, POC #5, GSA	Provided enviroscape demonstrations for the Outside Foundation's Kids in Kayaks program (*Youth*)	The goal of the Kids in Kayaks program in to bring local youth outside and to have them participate in experiential learning about their local ecosystems and natural resources.	Completed	These presentations were given on 4/24/2017 at the Shelter Cove Marina.	50
POC #2, POC #3, POC #4, POC #5, GSA	Provided enviroscape demonstrations for the Outside Foundation's Kids in Kayaks program (*Youth*)	The goal of the Kids in Kayaks program in to bring local youth outside and to have them participate in experiential learning about their local ecosystems and natural resources.	Completed	These presentations were given on 10/6/2017 at the Shelter Cove Marina.	29
POC #2, POC #3, POC #4, POC #5, GSA	Presentation for the MC Riley Elementary Career Day (*Youth*)	This presentation focused on water quality, the effects of stormwater, and how children can prevent water pollution.	Completed	This presentation was given to all 3rd graders at MC Riley Elementary School on 3/24/17 by the Town of Bluffton.	100
POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Earth Day presentation (*Youth*)	This presentation focused on water quality, the effects of stormwater, and how children can prevent water pollution.	Completed	This Earth Day presentation was given by the Town of Bluffton and the Savannah Metropolitan Planning Commission staff on 4/21/17. It focused on stormwater and how kids can help reduce water pollution. All kindergartener and some 1st graders from River Ridge Academy attended.	100

POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Illicit discharge, construction site management, dry weather, sediment removal, site restoration training (*Technical staff, engineers, developers, supervisory staff, administrators, stormwater managers, field staff, maintenance, facilities*)	To educate staff on general stormwater issues, IDDE, and good housekeeping practices and to be compliant with MCM 6.	Completed	This training occurred on 1/31/17. It was provided by Beaufort County.	55
POC #2, POC #3, POC #4, POC #5, POC #6, GSA	IDDE training (*Technical staff, engineers, developers, supervisory staff, administrators, stormwater managers, field staff, maintenance, facilities*)	To educate staff on general stormwater issues and IDDE, and to be compliant with MCM 6.	Completed	This training occurred on 1/19/17. It was provided by Beaufort County.	55
POC #2, POC #3, POC #4, POC #5, POC #6, GSA,	SESWA Good Housekeeping Measures training (*Technical staff, engineers, developers, supervisory staff, administrators, stormwater managers*)	To educate staff on general stormwater issues, IDDE, and good housekeeping practices and to be compliant with MCM 6.	Completed	This training occurred on 7/20/17 and was hosted by Beaufort County.	4
POC #2, POC #3, POC #4, POC #5, POC #6, GSA, Petroleum products	Good housekeeping training (*Technical staff, engineers, developers, supervisory staff, administrators, stormwater managers*)	To educate staff on general stormwater issues, IDDE, and good housekeeping practices and to be compliant with MCM 6.	Completed	On 11/14/17, the Town of Bluffton Project Management Division staff were trained on general stormwater awareness, good housekeeping practices, and IDDE. There was a focus on sediment and erosion control.	7
POC #2, POC #3, POC #4, POC #5, POC #6, GSA, Petroleum products, Pesticides, FOG, IDDE	Good housekeeping training (*Field staff, maintenance, facilities*)	To educate staff on general stormwater issues, IDDE, and good housekeeping practices and to be compliant with MCM 6.	Completed	On 10/16/17, the Town of Bluffton Public Works staff was trained on general stormwater awareness, good housekeeping practices, and IDDE.	8
POC #2, POC #3, POC #4, POC #5, POC #6, GSA, Toxins,	Enviroscape presentation (*Youth*)	The Enviroscape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution.	Completed	It was used as part of a presentation to Beaufort County school children on 4/11/2017 to demonstrate how stormwater affects water quality. This presentation was given by the Beaufort County Soil and Water Conservation District.	21

Petroleum products, Pesticides					
POC #2, POC #3, POC #4, POC #5, POC #6, GSA, Toxins, Petroleum products, Pesticides	Enviroscape presentation (*Youth*)	The Enviroscape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution.	Completed	It was used as part of a presentation to City of Beaufort schools on 4/17/2017 to demonstrate how stormwater affects water quality. This presentation was given by the Beaufort County Soil and Water Conservation District.	104
POC #2, POC #3, POC #4, POC #5, POC #6, GSA, Toxins, Petroleum products, Pesticides	Enviroscape presentation for the Outside Foundation's Kids in Kayaks program (*Youth*)	The goal of the Kids in Kayaks program in to bring local youth outside and to have them participate in experiential learning about their local ecosystems and natural resources.	Completed	The Enviroscape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution. It was used as part of a Kids in Kayak outing to Shelter Cove Marina for Hilton Head Christian Academy on 5/1/2017. This presentation was given by the Beaufort County Soil and Water Conservation District.	36
POC #2, POC #3, POC #4, POC #5, POC #6, GSA, Toxins, Petroleum products, Pesticides	Enviroscape presentation (*Youth*)	The Enviroscape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution.	Completed	It was used as part of a presentation to Town of Bluffton school children on 6/9/2017 to demonstrate how stormwater affects water quality. This presentation was given by the Beaufort County Soil and Water Conservation District.	59
POC #2, POC #3, POC #4, POC #5, POC #6, GSA, Toxins, Petroleum products, Pesticides	Enviroscape presentation for the Outside Foundation's Kids in Kayaks program (*Youth*)	The goal of the Kids in Kayaks program in to bring local youth outside and to have them participate in experiential learning about their local ecosystems and natural resources.	Completed	The Enviroscape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution. It was used as part of a Kids in Kayak outing to Shelter Cove Marina for Town of Hilton Head school children on 10/4/2017. This presentation was given by the Beaufort County Soil and Water Conservation District.	130
POC #2, POC #3, POC #4, POC #5, POC #6, GSA, Toxins, Petroleum products, Pesticides	Enviroscape presentation (*Youth*)	The Enviroscape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution	Completed	It was used as part of a presentation to Beaufort County school children on 10/16/2017 to demonstrate how stormwater affects water quality. This presentation was given by the Beaufort County Soil and Water Conservation District.	127
POC #2, POC #3, POC #5, GSA	Port Royal Sound Foundation Maritime Center (*General public*)	To advance the awareness of Port Royal Sound and its contributions to the environmental, cultural and economic well-being of our area, the region and the Atlantic Ocean.	Ongoing	The Center features exhibits, classrooms, hands-on learning spaces and other areas where everyone can learn and celebrate the uniqueness of the Port Royal Sound. The Center is open from 10:00AM - 5:00PM, Tuesday through Saturday. There is no charge for admission.	14956

POC #2, POC #3, POC #5, GSA	Port Royal Sound Foundation Maritime Center's Story Time program (*Youth*)	To advance the awareness of Port Royal Sound and its contributions to the environmental, cultural and economic well-being of our area, the region and the Atlantic Ocean.	Ongoing	Special time and water-quality related activities for preschoolers and toddlers at 10 a.m. every Wednesday. No charge. No reservation needed.	409
POC #2, POC #3, POC #5, GSA	Port Royal Sound Foundation Maritime Center's field trip program (*Youth*)	To advance the awareness of Port Royal Sound and its contributions to the environmental, cultural and economic well-being of our area, the region and the Atlantic Ocean.	Ongoing	Through hands-on experiments and discovery, students not only see the amazing life of our local environment, but also experience it firsthand. Participants include in all grades from public, private and charter schools and homes-schooling programs, as well as after-school and summer programs.	2291
POC #2, POC #3, POC #5, GSA	Port Royal Sound Foundation Maritime Center's education events (*General public*)	To advance the awareness of Port Royal Sound and its contributions to the environmental, cultural and economic well-being of our area, the region and the Atlantic Ocean.	Ongoing	Special events that regularly take place at the Center with water-quality and related themes. Examples of these programs include: Tuesday Talks (A classroom series led by area experts on a variety of topics), Eco Boat Excursions (A scientific expedition of the Port Royal Sound area via a classroom on a boat), Dolphin Research Cruises (An Eco-Boat tour meets dolphin research!), and Nautilus LIVE (Researchers aboard E/V Nautilus visit our classroom via LIVE streaming video)	1544
POC #2, POC #3, POC #5, GSA	Port Royal Sound presentation (*General Public*)	To advance the awareness of Port Royal Sound and its contributions to the environmental, cultural and economic well-being of our area, the region and the Atlantic Ocean.	Completed	The Lowcountry Institute gives this presentation multiple times a year to homeowners, interests groups, and other parties. It covers the natural history and anthropogenic threats to the Port Royal Sound.	100
POC #2, POC #3, POC #6, GSA	Water Quality Program (*Youth*)	To educate children on the importance of water quality and the effects of stormwater.	Completed	On 12/6/17, the Town of Bluffton gave a water quality program for all Red Cedar Elementary 3rd graders.	100
POC #2, POC #4	Soil Tunnel presentation (*Youth*)	This presentation's goal is to educate and involve children with how water quality and soil affect their lives.	Completed	Discussion on wells, septic tanks, and ground water recharge for the Beaufort County schools on 3/27/17. This presentation was given by the Beaufort County Soil and Water Conservation District.	174
POC #2, POC #4	Soil Tunnel presentation (*Youth*)	This presentation's goal is to educate and involve children with how water quality and soil affect their lives.	Completed	Discussion on wells, septic tanks, and ground water recharge for the Beaufort County schools on 4/3/17. This presentation was given by the Beaufort County Soil and Water Conservation District.	83
POC #2, POC #4	Soil Tunnel presentation (*Youth*)	This presentation's goal is to educate and involve children with how water quality and soil affect their lives.	Completed	Discussion on wells, septic tanks, and ground water recharge for the Beaufort County schools on 4/19/17. This presentation was given by the Beaufort County Soil and Water Conservation District.	76
POC #2, POC #4	Soil Tunnel presentation (*Youth*)	This presentation's goal is to educate and involve	Completed	Discussion on wells, septic tanks, and ground water recharge for the	143

		children with how water quality and soil affect their lives.		Beaufort County schools on 4/25/17. This presentation was given by the Beaufort County Soil and Water Conservation District.	
POC #2, POC #4	Soil Tunnel presentation (*Youth*)	This presentation's goal is to educate and involve children with how water quality and soil affect their lives.	Completed	Discussion on wells, septic tanks, and ground water recharge for the Beaufort County schools on 5/5/17. This presentation was given by the Beaufort County Soil and Water Conservation District.	63
POC #2, POC #4	Soil Tunnel presentation (*Youth*)	This presentation's goal is to educate and involve children with how water quality and soil affect their lives.	Completed	Discussion on wells, septic tanks, and ground water recharge for the Summerville schools on 5/8/17. This presentation was given by the Beaufort County Soil and Water Conservation District.	93
POC #2, POC #4	Soil Tunnel presentation (*Youth*)	This presentation's goal is to educate and involve children with how water quality and soil affect their lives.	Completed	Discussion on wells, septic tanks, and ground water recharge for the Town of Port Royal schools on 9/27/17. This presentation was given by the Beaufort County Soil and Water Conservation District.	83
POC #2, POC #4	Soil Tunnel presentation (*Youth*)	This presentation's goal is to educate and involve children with how water quality and soil affect their lives.	Completed	Discussion on wells, septic tanks, and ground water recharge for the City of Beaufort school children on 11/15/17. This presentation was given by the Beaufort County Soil and Water Conservation District.	17
POC #2, POC #4, GSA	Hilton Head Island Bluffton Chamber of Commerce Leadership Class presentation (*Residents, businesses*)	The mission of the Leadership Hilton Head Island-Bluffton program is to systematically inform, challenge and educate the participants regarding opportunities and needs in the community, as well as the dynamics and social and economic change; to create a dialogue and rapport among the participants and existing community leaders; and to identify organization and individual opportunities for community involvement and assist in the placement of participants in these positions.	Completed	The Town of Bluffton provided a presentation for the Hilton Head Island Bluffton Chamber of Commerce Leadership Class on 2/8/17.	25
POC #2, POC #4, GSA	May River Watershed Action Plan Advisory Committee meeting (*Elected & appointed officials and high-level staff, field staff, maintenance, facilities, supervisory staff, administrators, stormwater*	The six (6) member May River Watershed Action Plan Implementation Committee is tasked with assisting and advising Town Council by offering guidance and recommendations to implement the opportunities and strategies outlined in the	Completed	Town of Bluffton May River Watershed Action Plan Advisory Committee meeting was held on 2/23/17.	15

	managers)	May River Watershed Action Plan per the Town Council Resolution adopted on May 8, 2012 establishing the Committee.			
POC #2, POC #4, GSA	May River Watershed Action Plan Advisory Committee meeting (*Elected & appointed officials and high-level staff, field staff, maintenance, facilities, supervisory staff, administrators, stormwater managers*)	The six (6) member May River Watershed Action Plan Implementation Committee is tasked with assisting and advising Town Council by offering guidance and recommendations to implement the opportunities and strategies outlined in the May River Watershed Action Plan per the Town Council Resolution adopted on May 8, 2012 establishing the Committee.	Completed	Town of Bluffton May River Watershed Action Plan Advisory Committee meeting was held on 1/27/2017.	15
POC #2, POC #4, GSA	May River Watershed Action Plan Advisory Committee meeting (*Elected & appointed officials and high-level staff, field staff, maintenance, facilities, supervisory staff, administrators, stormwater managers*)	The six (6) member May River Watershed Action Plan Implementation Committee is tasked with assisting and advising Town Council by offering guidance and recommendations to implement the opportunities and strategies outlined in the May River Watershed Action Plan per the Town Council Resolution adopted on May 8, 2012 establishing the Committee.	Completed	Town of Bluffton May River Watershed Action Plan Advisory Committee meeting was held on 3/23/17.	15
POC #2, POC #4, GSA	May River Watershed Action Plan Advisory Committee meeting (*Elected & appointed officials and high-level staff, field staff, maintenance, facilities, supervisory staff, administrators, stormwater managers*)	The six (6) member May River Watershed Action Plan Implementation Committee is tasked with assisting and advising Town Council by offering guidance and recommendations to implement the opportunities and strategies outlined in the May River Watershed Action Plan per the Town Council Resolution adopted on May 8, 2012 establishing the Committee.	Completed	Town of Bluffton May River Watershed Action Plan Advisory Committee meeting was held on 5/4/17.	15
POC #2, POC #4, GSA	May River Watershed Action Plan Advisory Committee meeting	The six (6) member May River Watershed Action Plan Implementation Committee is tasked with	Completed	Town of Bluffton May River Watershed Action Plan Advisory Committee meeting was held on 6/22/17.	15

	(*Elected & appointed officials and high-level staff, field staff, maintenance, facilities, supervisory staff, administrators, stormwater managers*)	assisting and advising Town Council by offering guidance and recommendations to implement the opportunities and strategies outlined in the May River Watershed Action Plan per the Town Council Resolution adopted on May 8, 2012 establishing the Committee.			
POC #2, POC #4, GSA	May River Watershed Action Plan Advisory Committee meeting (*Elected & appointed officials and high-level staff, field staff, maintenance, facilities, supervisory staff, administrators, stormwater managers*)	The six (6) member May River Watershed Action Plan Implementation Committee is tasked with assisting and advising Town Council by offering guidance and recommendations to implement the opportunities and strategies outlined in the May River Watershed Action Plan per the Town Council Resolution adopted on May 8, 2012 establishing the Committee.	Completed	Town of Bluffton May River Watershed Action Plan Advisory Committee meeting was held on 7/27/17.	10
POC #2, POC #4, GSA	May River Watershed Action Plan Advisory Committee meeting (*Elected & appointed officials and high-level staff, field staff, maintenance, facilities, supervisory staff, administrators, stormwater managers*)	The six (6) member May River Watershed Action Plan Implementation Committee is tasked with assisting and advising Town Council by offering guidance and recommendations to implement the opportunities and strategies outlined in the May River Watershed Action Plan per the Town Council Resolution adopted on May 8, 2012 establishing the Committee.	Completed	Town of Bluffton May River Watershed Action Plan Advisory Committee meeting was held on 8/24/17.	10
POC #2, POC #4, GSA	May River Watershed Action Plan Advisory Committee meeting (*Elected & appointed officials and high-level staff, field staff, maintenance, facilities, supervisory staff, administrators, stormwater managers*)	The six (6) member May River Watershed Action Plan Implementation Committee is tasked with assisting and advising Town Council by offering guidance and recommendations to implement the opportunities and strategies outlined in the May River Watershed Action Plan per the Town Council Resolution	Completed	Town of Bluffton May River Watershed Action Plan Advisory Committee meeting was held on 8/28/17.	15

		adopted on May 8, 2012 establishing the Committee.			
POC #4, POC #4, GSA	May River Watershed Action Plan Advisory Committee meeting (*Elected & appointed officials and high-level staff, field staff, maintenance, facilities, supervisory staff, administrators, stormwater managers*)	The six (6) member May River Watershed Action Plan Implementation Committee is tasked with assisting and advising Town Council by offering guidance and recommendations to implement the opportunities and strategies outlined in the May River Watershed Action Plan per the Town Council Resolution adopted on May 8, 2012 establishing the Committee.	Completed	Town of Bluffton May River Watershed Action Plan Advisory Committee meeting was held on 9/28/17.	15
POC #2, POC #4, GSA	May River Watershed Action Plan Advisory Committee meeting (*Elected & appointed officials and high-level staff, field staff, maintenance, facilities, supervisory staff, administrators, stormwater managers*)	The six (6) member May River Watershed Action Plan Implementation Committee is tasked with assisting and advising Town Council by offering guidance and recommendations to implement the opportunities and strategies outlined in the May River Watershed Action Plan per the Town Council Resolution adopted on May 8, 2012 establishing the Committee.	Completed	Town of Bluffton May River Watershed Action Plan Advisory Committee meeting was held on 10/26/17.	10
POC #2, POC #4, GSA	May River Watershed Action Plan Advisory Committee meeting (*Elected & appointed officials and high-level staff, field staff, maintenance, facilities, supervisory staff, administrators, stormwater managers*)	The six (6) member May River Watershed Action Plan Implementation Committee is tasked with assisting and advising Town Council by offering guidance and recommendations to implement the opportunities and strategies outlined in the May River Watershed Action Plan per the Town Council Resolution adopted on May 8, 2012 establishing the Committee.	Completed	Town of Bluffton May River Watershed Action Plan Advisory Committee meeting was held on 11/30/17.	10
POC #2, POC #4, GSA	May River Preserve EPA 319 Grant presentation to homeowner's association (*Residents*)		Completed	This presentation took place on 4/24/2017.	10

POC #2, POC #4, GSA	SE Coastal Resiliency Panel - National Sea Grant Advisory Board (*Elected & appointed officials and high-level staff, technical staff, engineers, developers, supervisory staff, administrators, stormwater manager*s)	The National Sea Grant Advisory Board is the National Sea Grant College Program's Federal Advisory Committee (FAC). The Board advises NOAA and the National Sea Grant College Program on strategies to address the Nation's highest priorities in terms of the understanding, assessment, development, management utilization and conservation of ocean, coastal and Great Lakes resources.	Completed	The Town of Bluffton took part in the National Sea Grant Advisory Board's SE Coastal Resiliency Panel on 10/16/2017.	30
POC #2, POC #4, POC #5, GSA	Provided the Stormwater and the Saltmarsh presentation (*Residents*)	This presentation is an introduction to the importance of the saltmarsh, how stormwater runoff is created, local POCs, and behaviors/BMPs that homeowners can adopt to reduce their stormwater footprint. Its effectiveness will be determined through evaluations.	Completed	This presentation was given on 3/17/2017 to the Rotary Club of the Lowcountry.	20
POC #2, POC #4, POC #5, GSA	Provided the Stormwater and the Saltmarsh presentation (*Residents*)	This presentation is an introduction to the importance of the saltmarsh, how stormwater runoff is created, local POCs, and behaviors/BMPs that homeowners can adopt to reduce their stormwater footprint. Its effectiveness will be determined through evaluations.	Completed	This presentation was given on 6/20/2017 to the Vanlandginham Rotary Club.	35
POC #2, POC #4, POC #5, GSA	Provided the Stormwater and the Saltmarsh presentation (*Residents*)	This presentation is an introduction to the importance of the saltmarsh, how stormwater runoff is created, local POCs, and behaviors/BMPs that homeowners can adopt to reduce their stormwater footprint. Its effectiveness will be determined through evaluations.	Completed	This presentation was given on 8/16/2017 to the Bluffton Rotary Club.	39
POC #2, POC #4, POC #5, GSA	Provided the Stormwater and the Saltmarsh presentation (*Residents*)	This presentation is an introduction to the importance of the saltmarsh, how stormwater runoff is created, local POCs, and behaviors/BMPs that	Completed	This presentation was given on 9/21/2017 to the Indigo Run Women's Garden Club.	10

		homeowners can adopt to reduce their stormwater footprint. Its effectiveness will be determined through evaluations.			
POC #2, POC #4, POC #5, GSA	Provided the Stormwater and the Saltmarsh presentation (*Residents*)	This presentation is an introduction to the importance of the saltmarsh, how stormwater runoff is created, local POCs, and behaviors/BMPs that homeowners can adopt to reduce their stormwater footprint. Its effectiveness will be determined through evaluations.	In Planning	This presentation will be given again in 2018. We are working with local museums to schedule the talk there.	
POC #2, POC #4, POC #5, POC #6, GSA	Cultivating A Carolina Yard workshop Part 1 (*Residents, homeowners*)	This workshop gives a hands-on overview of Clemson Extension's Carolina Yards program. The program seeks to work with residents in creating healthy, watershed-friendly landscapes by using simple and effective gardening methods. Its effectiveness was determined with evaluations.	Completed	This portion of the Cultivating a Carolina Yard workshop was given of Daufuskie Island on 7/5/2017. There were 18 participants at this workshop.	18
POC #2, POC #4, POC #5, POC #6, GSA	Cultivating A Carolina Yard workshop Part 2 (*Residents, homeowners*)	This workshop gives a hands-on overview of Clemson Extension's Carolina Yards program. The program seeks to work with residents in creating healthy, watershed-friendly landscapes by using simple and effective gardening methods. Its effectiveness was determined with evaluations.	Completed	This portion of the Cultivating a Carolina Yard workshop was given of Daufuskie Island on 7/12/2017. There were 20 participants at this workshop. All evaluations came back reporting the workshop was a good use of time, that all participants learned something that they will use, and that they would recommend this workshop to others.	20
POC #2, POC #4, POC #5, POC #6, GSA	Cultivating A Carolina Yard workshop Part 3 (*Residents, homeowners*)	This workshop gives a hands-on overview of Clemson Extension's Carolina Yards program. The program seeks to work with residents in creating healthy, watershed-friendly landscapes by using simple and effective gardening methods. Its effectiveness was determined with evaluations.	Completed	This portion of the Cultivating a Carolina Yard workshop was given of Daufuskie Island on 7/19/2017. There were 10 participants at this workshop. All evaluations came back reporting the workshop was a good use of time, that all participants learned something that they will use, and that they would recommend this workshop to others.	10

POC #2, POC #4, POC #5, POC #6, GSA	Cultivating A Carolina Yard workshop Part 4 (*Residents, homeowners*)	This workshop gives a hands-on overview of Clemson Extension's Carolina Yards program. The program seeks to work with residents in creating healthy, watershed-friendly landscapes by using simple and effective gardening methods. Its effectiveness was determined with evaluations.	Completed	This portion of the Cultivating a Carolina Yard workshop was given of Daufuskie Island on 7/26/2017. There were 14 participants at this workshop. All evaluations came back reporting the workshop was a good use of time, that all participants learned something that they will use, and that they would recommend this workshop to others.	14
POC #2, POC #4, POC #5, POC #6, GSA	Cultivating A Carolina Yard workshop (*Residents, homeowners*)	This workshop gives a hands-on overview of Clemson Extension's Carolina Yards program. The program seeks to work with residents in creating healthy, watershed-friendly landscapes by using simple and effective gardening methods. Its effectiveness was determined with evaluations.	Completed	This workshop was given at the Oldfield River Club on 12/6/2017. There were 16 participants at this workshop. All evaluations came back reporting the workshop was a good use of time, that all participants learned something that they will use, and that they would recommend this workshop to others.	16
POC #2, POC #4, POC #5, POC #6, GSA	Cultivating A Carolina Yard workshop (*Residents, homeowners*)	This workshop gives a hands-on overview of Clemson Extension's Carolina Yards program. The program seeks to work with residents in creating healthy, watershed-friendly landscapes by using simple and effective gardening methods. Its effectiveness was determined with evaluations.	In Planning	This workshop will be given again in the spring of 2018. Currently searching for a community partner.	
POC #2, POC #4, POC #5, POC #6, GSA	Installation of New Riverside Pond floating wetlands (*Residents*)	This project had community members involved in installing floating wetland BMPs to help maintain the New Riverside stormwater pond. Their effectiveness will be determined through water quality testing.	Completed	Volunteers from the North Face Store, led by the Town of Bluffton, installed floating wetland BMPs in the New Riverside Pond on 5/8/17.	2
POC #2, POC #4, POC #5, POC #6, GSA	2017 SESWA Photo Contest Winners (*General Public*)	This contest highlighted regional LID/BMP/green infrastructure efforts in the southeast region and the Town of Bluffton's floating wetlands won alongside two other projects.	Completed	This award was announced on 6/13/17 and the photos can be found at www.seswa.org	N/A

POC #2, POC #4, POC #5, POC #6, GSA	Article in Bluffton Today (*General Public*)	This article covered the benefits and installation of floating wetland BMPs.	Completed	This article was published on 7/8/17 and can be found at http://www.blufftontoday.com/opinion/2017-07-08/benefits-floating-wetlands	N/A
POC #2, POC #4, POC #5, POC #6, GSA	Article in SWS stormwater solutions (*General Public*)	This article covered the benefits and installation of floating wetland BMPs.	Completed	This article was published on 12/5/17 and is available at https://www.estormwater.com/floating-island-wetlands-reduce-coliform-levels-creek	N/A
POC #2, POC #4, POC #5, POC #6, GSA	Article in Coastal Heritage (*General Public*)	This article covered how the Town of Bluffton spoke at the 18th International Conference on Shellfish Restoration	Completed	This was published in the winter of 2017 by SC SeaGrant and is available at http://www.scseagrant.org/pdf_files/Coastal-Heritage-Winter-2017.pdf	N/A
POC #2, POC #4, POC #5, POC #6, GSA	Residential Stormwater BMPs: A Training for Contractors (*Businesses, field staff, contractors, supervisory staff, landscapers, pond managers*)	This workshop is intended for contractors and landscape professionals who want to learn how to install stormwater best management practices (BMPs).	Cancelled	This workshop has been cancelled and will be replaced by the Clemson Extension Master Rain Gardener certification course.	N/A
POC #2, POC #4, POC #5, POC #6, GSA	Community Grants program (*Residents, businesses*)	This application-based mini-grant program will pay contractors to install demonstration stormwater BMPs (rain gardens, rain barrels, shorescaping, geese fencing, pet waste stations, downspout planter boxes, and floating wetlands) on highly visible private property (such as apartment complexes, restaurants, doctor's offices, etc.)	In Planning	The budget is now available to subsidize downspout planter box, pet waste station, and rain barrel installations.	N/A
POC #2, POC #5, GSA	Master Naturalist program (*Residents, teachers, technical staff, field staff, facilities, maintenance*)	The South Carolina Master Naturalist Program aims to create a statewide corps of volunteers sponsored through the Clemson Extension Service providing education, outreach, and service dedicated to the beneficial management of natural resources and natural areas within their communities. Interested South Carolinians become Master Naturalists through training and volunteer service	Ongoing	The Lowcountry Institute holds the 12 session Master Naturalist courses four times a year. Individuals who participate in the program bring diverse skills and experiences that contribute time, energy and ideas in maintaining the native eco-systems throughout the South. After receiving training, Master Naturalists may participate in many different types of volunteer activities. These might include assisting in a nature outreach program at a park, museum, nature center or school; assisting a scientist collecting bird census data; collecting data on water quality or many others.	100

POC #2, POC #5, POC #6	Lowcountry Master Gardner educational services (*Residents, youth, higher education students, elected & appointed officials*)	The Master Gardener program was designed to use the services of trained volunteers who have horticultural knowledge and a willingness to share that knowledge with other county residents through Cooperative Extension.	Ongoing	The Master Gardeners in Beaufort County remain active all year long and provide educational services such as: improving overall efficiency in providing one-on-one service to the non-commercial horticultural clientele in the county, promote increased environmental awareness through the prudent use of fertilizers, pesticides, etc., provide group learning and teaching activities for non-commercial clientele, and forming groups of teaching assistants who enjoy being around other horticulturists and which may evolve into a support group for Extension consumer/urban horticulture efforts.	212492
POC #2, POC #5, POC #6	Lowcountry Master Gardener community services (*Residents, youth, higher education students, elected & appointed officials*)	The Master Gardener program was designed to use the services of trained volunteers who have horticultural knowledge and a willingness to share that knowledge with other county residents through Cooperative Extension.	Ongoing	The Master Gardeners in Beaufort County remain active all year long and provide community involvement services such as: answering home horticulture calls at the Extension office, speaking to garden and civic clubs, speaking with youth or senior groups, and assisting communities with horticultural projects.	1295
POC #2, POC #5, POC #6, GSA	Port Royal Elementary School rain garden (*Youth*)	As part of the Green Steps Schools program, the Lowcountry Stormwater Partners will assist the third graders of this school design and install a demonstration rain garden.	In Planning	Site is selected and materials secured. Will be planted in spring 2018.	
POC #3	Whale Branch Elementary School Green Steps School Projects Kick-Off (*Youth*)	The goal of this meeting was to plan and implement projects for Whale Branch Elementary School's Green Step Schools certification. Its effectiveness will be measured by the success of its projects.	Completed	On 12/1/2017, Whale Branch Elementary School committed to and began implementing the following three projects: 1. Recycling - elimination of litter & trash 2. Composting - elimination of litter & trash 3. Rain Barrel - collect rain water and use to water garden plot (rain barrel installed same day) This was done with the Beaufort County Soil and Water Conservation District.	200
POC #3	Coastal Conservation League table at the Broad Creek Clean Water Festival (*Residents, K-12 students/youth, teachers*)	Participating in this event allowed the organization to directly interact with many stakeholders and educate them about plastic pollution, litter, and the importance of water quality. This strategy's effectiveness will be determined by the amount of people reached.	Completed	The Coastal Conservation League created a table on plastic pollution at the Broad Creek Clean Water Festival on 8/10/17.	75

POC #3	Marine debris display & game at the Broad Creek Clean Water Festival (*General public*)	Participating in this event allowed the organization to directly interact with many stakeholders and educate them about plastic pollution, litter, and the importance of water quality. This strategy's effectiveness will be determined by the amount of people reached.	Completed	The Beaufort County Soil and Water Conservation District exhibit highlighted the negative effect on marine species due to litter and provided a game where participants guessed how long trash takes to decompose. We also distributed Marine Debris flyers at this event on 8/10/17.	150
POC #3	Marine debris display at the Soft-Shell Crab Festival (*General Public*)	Participating in this event allowed the organization to directly interact with many stakeholders and educate them about plastic pollution, litter, and the importance of water quality. This strategy's effectiveness will be determined by the amount of people reached.	Completed	The Beaufort County Soil and Water Conservation District display shows how debris harms aquatic species and has participants guess how long it takes materials decompose in the water. The display was active on 4/15/17.	500
POC #3	Display on plastic bags & suggestions on a county wide ban at the Town of Port Royal's Earth Day Celebration (*General public*)	Participating in this event allowed the organization to directly interact with many stakeholders and educate them about plastic pollution, litter, and the importance of water quality. This strategy's effectiveness will be determined by the amount of people reached.	Completed	The Beaufort County Soil and Water Conservation District provided the body suit of a Plastic Bag "Monster" to bring attention to the problem and utilized it on 4/22/17.	100
POC #3	Beach Sweep (*Residents, youth, higher education students, teachers, commercial businesses, boat owners, operators, marinas, pet owners*)	The goal of the beach sweep is to engage and involve citizens in removing litter from their environment and marking storm drain to prevent further litter and stormwater pollution. Its effectiveness will be determined through number of volunteers and pounds of litter removed.	Cancelled	The 2017 beach sweep was cancelled due to Hurricane Irma and the subsequent maintenance concerns.	N/A
POC #3	Teacher training for Green Steps School (*Teachers*)	This training aims to increase participation in the Green Steps School Program.	Completed	The Green Steps Schools Coordinator with the Beaufort County Soil and Water Conservation District trained teachers and encourage schools to form teams to participate in the program on 8/14/17.	27
POC #3	Recycling presentation (*Youth*)	This presentation was meant to educate children how to recycle and prevent litter.	Completed	Beaufort County school children learned about recycling and how to prevent litter. This presentation was given by Beaufort County Soil and Water Conservation District on	36
POC #3	Beaufort Middle School Grounds Litter Clean Up (*Youth*)	This program was meant to engage students in community involvement and reduce stormwater pollution by picking up	Completed	Beaufort Middle School students cleaned up their school's grounds on 11/29/17 with the Beaufort County Soil and Water Conservation District.	21

		litter.			
POC #3	Digital billboard advertisement for the May River Cleanup (*Residents, K-12 students/youth, higher education students, teachers*)	To advertise and increase awareness of the 17th Annual May River Cleanup	Completed	The Town of Bluffton obtained a digital billboard advertisement for the May River Cleanup was created and sent out through social media and news sites.	290,000
POC #3	Plastic bag presentation (*Commercial business*)	This presentation focused on educating key audiences on the issues with plastic litter. Its effectiveness will be measured by the adoption of a single use plastic bag ban.	Completed	On 1/18/18, the Coastal Conservation League met with the Hilton Head Island-Bluffton Chamber of Commerce to discuss the feasibility of a ban on single use plastic bags.	5
POC #3	Paper Bag Commitment (*Businesses, General public*)	This presentation focused on educating key audiences on the issues with plastic litter. Its effectiveness will be measured by the adoption of a single use plastic bag ban.	Completed	The week of Earth Week, the Coastal Conservation League asked local businesses to commit to offering paper bags (instead of defaulting to single use plastic bags). Several businesses committed to asking customers which they preferred and having paper bags available.	100
POC #3	Reducing Plastic Pollution in the Lowcountry presentation (*Residents*)	This presentation focused on educating key audiences on the issues with plastic litter. Its effectiveness will be measured by the adoption of a single use plastic bag ban.	Completed	On 5/15/17, the Coastal Conservation League gave a presentation to residents of Palmetto Bluff on how to reduce plastic pollution. Included a discussion of a ban on single use plastic bags.	20
POC #3	Reducing Plastic Pollution in the Lowcountry presentation (*Residents, general public*)	This presentation focused on educating key audiences on the issues with plastic litter. Its effectiveness will be measured by the adoption of a single use plastic bag ban.	Completed	On 4/18/17, the Coastal Conservation League gave a presentation to Green Drinks Beaufort on how to reduce plastic pollution. Included a discussion of a ban on single use plastic bags.	50
POC #3	Plastic bag presentation (*Elected & appointed officials and high-level staff)*	This presentation focused on educating key audiences on the issues with plastic litter. Its effectiveness will be measured by the adoption of a single use plastic bag ban.	Completed	On 4/20, the Coastal Conservation League presented to and discussed with members of the Hilton Head Island Planning Commission about exploring the possibility of a ban on single use plastic bags.	2
POC #3	Plastic bag presentation (*Residents, elected & appointed officials and high-level staff)*	This presentation focused on educating key audiences on the issues with plastic litter. Its effectiveness will be measured by the adoption of a single use plastic bag ban.	Completed	On 6/21/17, the Coastal Conservation League gave a presentation on banning single use plastic bags on Hilton Head Island.	40

POC #3	Plastic bag presentation (*Residents)*	This presentation focused on educating key audiences on the issues with plastic litter. Its effectiveness will be measured by the adoption of a single use plastic bag ban.	Completed	On 8/17/17, the Coastal Conservation League gave a presentation about reducing plastic pollution in the Lowcountry to the League of Women Voters in Beaufort.	40
POC #3	Plastic bag presentation (*Elected & appointed officials and high-level staff)*	This presentation focused on educating key audiences on the issues with plastic litter. Its effectiveness will be measured by the adoption of a single use plastic bag ban.	Completed	The Coastal Conservation League gave a presentation to the Natural Resources Committee of Beaufort County Council on 8/22/17 about banning single use plastic bags.	7
POC #3	Plastic bag presentation (*Commercial business*)	This presentation focused on educating key audiences on the issues with plastic litter. Its effectiveness will be measured by the adoption of a single use plastic bag ban.	Completed	The Coastal Conservation League gave a presentation to the Beaufort County Chamber of Commerce on 9/1/17 about banning single use plastic bags.	4
POC #3	Plastic bag presentation (*Residents*)	This presentation focused on educating key audiences on the issues with plastic litter. Its effectiveness will be measured by the adoption of a single use plastic bag ban.	Completed	The Coastal Conservation League gave a presentation at the Port Royal Town Council meeting on 9/13/17 about banning single use plastic bags.	12
POC #3	Beaufort County Council workshop on banning single use plastic bags (*Elected & appointed officials and high-level staff*)	To discuss and work on language for a potential ban on single use plastic bags. Its effectiveness will be determined by a resolution on the matter.	Completed	Beaufort County Council met to discuss banning single use plastic bags on 10/5/17.	25
POC #3	Beaufort County Council workshop on banning single use plastic bags (*Elected & appointed officials and high-level staff*)	To discuss and work on language for a potential ban on single use plastic bags. Its effectiveness will be determined by a resolution on the matter.	Completed	Beaufort County Council met to discuss banning single use plastic bags on 10/16/17.	25
POC #3	Beaufort County Council workshop on banning single use plastic bags (*Elected & appointed officials and high-level staff*)	To discuss and work on language for a potential ban on single use plastic bags. Its effectiveness will be determined by a resolution on the matter.	Completed	Beaufort County Council met to discuss banning single use plastic bags on 10/25/17.	25
POC #3	Beaufort County Council workshop on banning single use plastic bags (*Elected & appointed officials and high-level staff*)	To discuss and work on language for a potential ban on single use plastic bags. Its effectiveness will be determined by a resolution on the matter.	Completed	Beaufort County Council met to discuss banning single use plastic bags on 11/1/17.	25
POC #3	Beaufort County Council workshop on banning single use plastic bags (*Elected & appointed officials*	To discuss and work on language for a potential ban on single use plastic bags. Its effectiveness will be determined by a	Completed	Beaufort County Council met to discuss banning single use plastic bags on 11/8/17.	25

	and high-level staff)	resolution on the matter.			
POC #3	Adopt-A-Highway program (*Residents*)	The Adopt-A-Highway program is a part of Palmetto Pride and Keep Beaufort County Beautiful. Its mission is to eradicate litter and promote beautification in South Carolina. It conducts litter pick-ups and measures effectiveness in number of volunteers, number of active volunteer groups, number of volunteer hours, and pounds of litter removed.	Ongoing	There were 2,996 volunteers who were part of 85 active volunteer groups who spent 3,996 hours picking up 89,160 lbs. of trash.	2996
POC #3, GSA	Intro to Hazardous Waste Generation and Handling (*Technical staff, engineers, developers, supervisory staff, administrators, stormwater managers, field staff, maintenance, facilities*)	This training focused upon proper disposal of hazardous waste and spill procedures. It's education also serves for MCM 6 requirements.		This training took place on 2/6/17. It was provided by Beaufort County.	2
POC #3, GSA	Storm drain marking (*General public, business*)	Storm drain marking seeks to prevent litter and other stormwater runoff pollution from entering waterways by serving as a visual reminder of how the storm sewers connect directly to local waterways.	Completed	The Clemson Extension Water Resources Agent partnered with the Shelter Cove Marina and marked five storm drains with one volunteer on 2/23/2017.	1
POC #3, GSA	Storm drain marking (*General public, business*)	Storm drain marking seeks to prevent litter and other stormwater runoff pollution from entering waterways by serving as a visual reminder of how the storm sewers connect directly to local waterways.	Completed	The Town of Hilton Head Island partnered with 8 volunteers to mark storm drain on of three marinas on Hilton Head Island on 9/1/17.	8
POC #3, GSA	Storm drain marking (*General public, business*)	Storm drain marking seeks to prevent litter and other stormwater runoff pollution from entering waterways by serving as a visual reminder of how the storm sewers connect directly to local waterways.	In Planning	Kits are ready and looking for volunteer groups. Will be recruiting volunteers at the 1/23/18 Lowcountry Master Naturalist Association Meeting.	
POC #3, POC #4, POC #5	Tabling event at Southern Barrel Brewing (*Residents*)	To increase public awareness of water quality and conservation issues.	Completed	On 9/22/17, the Savannah Riverkeeper engaged citizens in discussion about watershed protection and water supply.	46

POC #3, POC #4, POC #5	Presentation for the Sun City Kayak Club (*Residents*)	To increase public awareness of water quality and conservation issues.	Completed	On 1/15/17, the Savannah Riverkeepers gave a presentation for the Sun City Kayak Club that discussed human / waterway interactions and their impacts.	28
POC #3, POC #4, POC #5	Table at the Beaufort Academies solar eclipse event (*Residents*)	To increase public awareness of water quality and conservation issues.	Completed	On 8/21/17, the Savannah Riverkeeper engaged citizens in discussion about watershed protection and water supply.	27
POC #3, POC #4, POC #5, GSA, Pesticides	EPA brochure "Make your home the solution to stormwater pollution" A homeowner's guide to healthy habits for clean water (*Residents*)	This brochure reviews general behaviors and BMPs homeowners can adopt to reduce their stormwater footprint.	Ongoing	This brochure is available at the Town of Hilton Head town offices.	100
POC #3, POC #4, POC #5, Toxins, Petroleum products, Pesticides, FOG	WEF Household Hazardous Waste brochure (*Residents, technical staff, engineers, developers, field staff, maintenance, facilities, contractors, PUD*)	This brochure is meant to assist citizens with proper disposal of hazardous waste materials. Its effectiveness will be tracked by how many copies are distributed.	Ongoing	The brochure is available at the Town of Hilton Head offices, Beaufort County Public Works building, and the Clemson Extension office.	100
POC #3, POC #5, GSA	South Carolina Adopt-A-Stream citizen monitoring (*Residents*)	South Carolina Adopt-a-Stream (SC AAS) creates a network of watershed stewardship, engagement, and education through involvement. SC AAS volunteers can play an important role in monitoring and tracking water quality while sharing information about local water resources with their communities. In providing baseline information about stream conditions, volunteers, local communities, educators, and local government agencies can partner to protect and restore our waters. Its effectiveness will be monitored by the number of trained volunteer groups.	Ongoing	Marketing materials for this program are on display at the Clemson Extension Office. However, no volunteer groups can form until a saltwater monitoring program is created.	N/A
POC #4	Soil Tunnel presentation (*Youth*)	This presentation's goal is to educate and involve children with how water quality and soil affect their lives.	Completed	Discussion on wells, septic tanks, and ground water recharge for the Bridges Prep school on 3/3/17. This presentation was given by the Beaufort County Soil and Water Conservation District.	68

POC #4	Broad Creek Management Plan septic system brochure (*Residents, elected & appointed officials and high-level staff, contractors*)	To inform the public about the importance of septic system maintenance, how to perform said maintenance, and how lack of maintenance can negatively impact water quality.	Completed	This outreach material was funded by DHEC, and NOAA grant #NA970Z0198.	100
POC #4	Septic System Awareness campaign (*Homeowners*)	This program will focus on encouraging septic system owners to follow best practices through social marketing and educational materials development.	In Planning	A needs assessment is currently being designed to better target the educational materials.	
POC #4, GSA	2018 pet waste mass media campaign development (*Pet owners*)	The Lowcountry Stormwater Partners are working with other Carolina Clear consortiums to perform social market research to develop a mass media campaign targeted at pet owners to encourage them to pick up their pets' waste. Evaluation methods are being determined.	In Planning	The Lowcountry Stormwater Partners attended three brainstorming and planning meetings and are contributing to social market research. The consortium will also participate in the campaign once the details are finalized.	N/A
POC #4, POC #5	Pet waste station installation (*Pet owners*)	Install one new pet waste station per year	In Planning	As part of the 2018 Pet Waste Mass Media campaign, a pet waste station will be installed.	N/A
POC #4, POC #5, GSA	Fats, oils, and grease disposal education materials (*General public*)	Distribute educational materials relating to FOG to education partners and stakeholders. Their effectiveness will be determined through the amount distributed.	Ongoing	There are four stormwater displays that contain FOG materials: one at the Beaufort County Clemson Extension Office, one at the Town of Bluffton Watershed Management Division, one at the Town of Hilton Head Island town offices, and one at the Beaufort County Public Works building.	N/A
POC #4, POC #5, POC #6, GSA	Carolina Yards program (*Homeowners*)	Clemson Extension's Carolina Yards program works with residents to create healthy, watershed-friendly landscapes. Using simple and effective gardening methods, create a low maintenance yard that works with nature, rather than against it. Carolina Yards also regularly offers a five week, online course designed to help Carolina gardeners learn to grow and maintain a low maintenance and low impact yard. The program's success will be measured in newly certified yards.		No courses were offered this year, but there were 22 newly certified yards.	22

POC #4, POC #5, POC #6, GSA	Carolina Yards website (*Homeowners*)	The website's goal is to provide a clearing house of information on how to use simple and effective principles and actions to help guide you towards a low maintenance and positive environmental impact yard. Its use will be tracked through site visits.	Ongoing		18985
POC #4, POC #5, POC #6, GSA	Carolina Yards Facebook (*Homeowners*)	The goal of this page is to provide a forum for public participation, to increase awareness of simple and effective actions to help guide residents towards a low maintenance and environmentally friendly yard, and to increase awareness of course offerings. Its effectiveness will be tracked through "Likes".	Ongoing		541
POC #5, GSA, CM	Co-presented the "Cooperative Education and Involvement Programming" lecture at the 17th Annual Southeast Stormwater Association Conference in Louisville, KY (*Pond managers, stormwater staff, technical staff, supervisory staff, field staff, facilities, maintenance*)	This presentation described the cooperative education model that Clemson Extension's Carolina Clear program employs within its consortiums. The Lowcountry Stormwater Partner's strategic planning process was highlighted in this presentation as a case study for the professional audience. This presentation's effectiveness was measured by evaluations.	Completed	This presentation was given to stormwater professionals on 10/12/2017. It was a joint effort between Clemson Extension, the Anderson Pickens Stormwater consortium, the Lowcountry Stormwater Partners, and Beaufort County. 29 people who attended the session turned in evaluations. The evaluations rated on a scale of 1-7, where 7 was an excellent presentation and 1 was a poor presentation. 38% of respondents rated us at a 7, 45% of respondents rated us at a 6, and 14% of respondents rated us at a 5.	29
POC #5, POC #6, GSA	Making It Grow! (*Homeowners*)	Its use will be tracked by views (number reported is the average number of persons per household applied to the projected number of households that viewed Making It Grow! during the 2016 calendar year. This number is conservative as it does not account for the SC Channel and only represents one episode's viewing).	Ongoing	*Number reported is the average number of persons per household applied to the projected number of households that viewed Making It Grow! from May 2016 through November 2017. This number is conservative as it does not account for the SC Channel and only represents one episode's viewing.	22162
POC #5, POC #6, GSA	Water Chemistry Summary presentation (*Residents, technical staff, engineers, developers, field*	The presentation focused mainly on nutrients loads and the possible bmp strategy that could lessen future nutrient levels in a sustainable manner.	Completed	The Town of Hilton Head Island presented a water chemistry summary to the Palmetto Dunes wetland committee on 11/13/17.	12

	staff, maintenance, facilities)				
POC #6, GSA	Board of Zoning Appeals and Design Review Board presentation (*Elected & appointed officials and high-level staff*)		Completed	At the 6/22/17 meeting of the Town of Hilton Head Island Board of Zoning Appeals and Design Review Board, the Town of Hilton Head gave a presentation on beaches, how they erode and accrete and what natural services beach plants provide.	15
POC #6, GSA	Silt Fence and Beyond: Erosion and Sediment Control Best Practices	Silt Fence and Beyond: Erosion and Sediment Control Best Practices is a full day workshop for contractors, inspectors, and regulators who wish to learn more about saving time and money on job sites through proper selection, installation, and maintenance of construction BMPs. Topics covered include: Establishing vegetative cover, Hydro mulching, Erosion control blankets, Turf reinforcement mats, and more!	In Planning	Speakers are identified and looking to schedule.	N/A
Total Number of Individuals Impacted					**829,124**

C. Control Measure Evaluation (5.3)

1. Evaluate the success of this MCM. Refer to goals implemented and achieved, and adherence to the implementation schedule:

The implementation of MCM#1 was successful in the Hilton Head Urbanized Area for several reasons. One reason is that the Lowcountry Stormwater Partners grew into a larger, more well defined stormwater consortium. The Lowcountry Stormwater Partners began when Beaufort County, the City of Beaufort, the Town of Bluffton, the Town of Hilton Head Island, and the Town of Port Royal agreed to work together across municipal and watershed boundaries to address stormwater education and awareness needs. With this commitment, the communities selected to work with the Clemson Extension's Carolina Clear program. This program seeks to develop outreach and involvement opportunities that lead to sustained behavior changes which, in turn, protect water resources. This approach is best accomplished through meaningful partnerships; thus, the founding organizations selected to work locally as the Lowcountry Stormwater Partners and to invite other educational institutions, utilities, non-profits, and companies to deliver consistent outreach programming to target audiences. In the 2017 reporting year, the Lowcountry Stormwater Partners recruited four new organizations to the consortium as well as created a vision statement, a mission statement, specific goals, a logo, and a fully functional website. These steps amplify the Lowcountry Stormwater Partners educational messaging, as citizens and stakeholders will be able to recognize the consortium and seek its assistance.

To craft the vision statement, mission statement, and goals, partners and stakeholders provided feedback at the consortium meeting in January 2017. Then, a steering committee built of MS4 community representatives met on 4/3/17 to fine tune these suggestions. The meeting resulted in the Lowcountry Stormwater Partners consortium's vision statement, "The Lowcountry Stormwater Partners strive for healthy, fishable, swimmable waterways to continue the prosperity of the region" as well as its' mission statement, "To protect and restore

healthy, productive Lowcountry waterways by engaging citizens in stormwater education and public involvement opportunities through a network of partnerships with local governments, organizations, and businesses." This meeting also saw the formation of the consortium's goals. The goals are:

1. Help the Lowcountry Stormwater Partners' local SMS4s meet and stay compliant with the NPDES Phase II Stormwater Program permit requirements for MCM1 (public education and outreach) and MCM 2 (public involvement) by providing local resources and services.
2. Leverage the Lowcountry Stormwater Partners network of partners to maximize the efficiency of stormwater education and involvement efforts using a regional approach.
3. Develop and implement targeted outreach programs that address primary stormwater pollutants of concern.
4. Encourage positive behavioral changes in support of environmental protection and awareness through stormwater education.
5. Foster and expand upon citizen involvement in stormwater management through education and participation in programs.
6. Facilitate collaboration among local organizations interested in watershed-related education to best meet the needs of local communities.

At a later meeting, the same steering committee created a timeline for focusing on POCs. 2017 will focus upon POC #1 and POC #6, 2018 will focus upon POC #4 and POC #5, and POC #3 and POC #2 will be focused upon throughout these years through existing and other programs. This year, the steering committee will meet once more to decide if these two pollutants should be the focus of 2019. However, aside from planning and creating a more effective consortium, the Lowcountry Stormwater Partners also kept up with our implementation schedule according to the 2016-2018 Lowcountry Stormwater Partners Strategic Regional Stormwater Outreach Plan and created several successful educational programs.

An example of one such program was the 2017 Beaufort Area Stormwater Pond Management Conference. The conference took place on 10/19 at USCB's Bluffton campus from 8:30am – 4:00pm. It provided a forum to give the latest information, resources and tools on pond management. The conference was jointly organized by Clemson Extension and the Lowcountry Stormwater Partners, the South Carolina Sea Grant Consortium, the South Carolina Department of Natural Resources, and the Ace Basin National Estuarine Research Reserve to serve a need within the Lowcountry community and maintain the implantation schedule on the 2016-2018 Lowcountry Stormwater Partners Strategic Regional Stormwater Outreach Plan. The 2017 conference was part of a series of six pond conferences along the South Carolina coast that have been taking place since 2012. The conference was designed to help stormwater pond owners/HOA representatives, property management professionals, and pond management professionals learn more about current pond management techniques. The conference was split into two tracks, one for pond owners and one for the more technical pond managers, to better serve these audiences. Each participant received presentations and advice from local and regional experts in pond management, opportunities to interact with organizations and businesses in the pond management industry, a resource package with information and reference materials, lunch, and continuing education credits. Conference topics included integrated weed management, shoreline stabilization, and wildlife management. 111 people pre-registered for the conference and 98 people attended. Out of the 98 participants, 62 people turned in evaluations. The evaluations revealed that 43% of respondents were HOA/community members and 24% were business representatives. 88% of respondents agreed that the conference was a good use of their time and 100% of respondents reported knowledge gain. Finally, 87% of respondents reported that they learned something at the conference that they would apply in the future.

The "Cultivating a Carolina Yard" workshop is another example of a successful Lowcountry Stormwater Partners education program. This program is designed to give a basic overview of Clemson Extension's Carolina Yards program, which teaches homeowners how using simple and effective gardening methods can create a low maintenance yard that works with nature, rather than against it. This workshop uses a

combination of PowerPoint, lecture, conversation, and hands-on field activities to convey this information and to encourage participants to enroll in the Carolina Yards course. To produce this workshop, the Lowcountry Stormwater Partners work with local communities who provides the space and course materials. Course participants receive a Carolina Yards Workbook and 12 Clemson HGIC printouts in their own folder. This year, the Lowcountry Stormwater Partners partnered with the Daufuskie Island Conservancy and the Haig Point community to host this workshop in a series of four, 90-minute sessions on 7/5/17, 7/12/17, 7/19/17, and 7/26/17. A total of 33 individuals attended these offerings. 18 people attended the first session, 20 attended the second, 10 attended the third, and 14 attended the fourth. We collected a total of 40 evaluations from this series. Each evaluation reported that the information presented was very useful, that the participant gained knowledge, and that the participant would recommend this program to others. The Lowcountry Stormwater Partners also worked with the Oldfield Community to offer this workshop as a one-time, six-hour course on 12/6/17. 16 people attended the workshop and all participants turned in an evaluation. All respondents indicated that they found the training very useful, that they gained knowledge, that they planned to use the knowledge gained in the future, and that they would recommend the workshop to others. To further evaluate this program, we will follow up in with the participants after the planting season in March to see if the participants applied the knowledge gained. If they do apply the knowledge gained, participants will be able to save money, reduce time working in the yard, and/or protect water quality by getting their soil tested, applying the appropriate amount of fertilizer, watering wisely, reducing stormwater runoff, creating integrated pest management systems, and/or using native plants.

Another successful education program that the Lowcountry Stormwater Partners created this year was the “Success with Stormwater” advanced master naturalist training, which was given on 12/5/17. This hands-on workshop focused on why water quality is important to Beaufort County, how stormwater runoff is created, and how the negative impacts of stormwater runoff can be offset through the adoption of certain behaviors and residential stormwater best management practices. The workshop was held at Crystal Lake park from 9:00AM until 12:00PM and was divided into three sections: a jeopardy-style game to review watershed principles and the Lowcountry Master Naturalist material, a PowerPoint presentation and lecture on stormwater runoff with an Enviroscape demonstration, and a walking tour and discussion residential stormwater best management practices.10 people attended the training and everyone turned in an evaluation. All respondents indicated that they found the training very useful, that they gained knowledge, that they planned to use the knowledge gained in the future, and that they would recommend the workshop to others. The program was so popular, that the consortium was asked to give the training again on 4/25/18.

A final example of the Lowcountry Stormwater Partners successful education programming is the hosting of the 2017 Spring Master Pond Manager Course. In this course, 32 participants actively engaged in self-paced lectures, discussion, and quizzes in the online classroom, managed by the Lowcountry Stormwater Partners. They covered topics such as pond design, inspection, and maintenance as well as limnology, integrated aquatic plant management, fish management, and BMP function, design, and installation. However, on 5/11/17 and 5/12/17, course participants had the opportunity to meet with their instructors face-to-face and to apply what they learned in the classroom to real-world situations. On 5/11/17, we hosted the Master Pond Manager Stormwater Pond Field Day. At this event, 25 participants learned how to read construction drawings and how to perform detailed stormwater pond inspections. The highlight of the day, though, was the opportunity to install a shoreline buffer, or shorescape. Working together, the 25 participants planted a 300sqft shorescape along a pond at the Beaufort County Administration Complex with native plants. Then, on 5/12/17, we hosted the Master Pond Manager Recreational Field Day. At this event, 16 participants toured Spring Island and discussed pond design, rookery management, and practiced delineating wetlands. The highlight of the day was the opportunity to sample fish populations in the pond using fish traps, seine nets, and cast net. The students were encouraged to identify and measure fish as well as draw some preliminary conclusions about the state of the ponds’ fisheries.

The Lowcountry Stormwater Partners credits the success of these programs to the creation and direction of the 2016-2018 Lowcountry Stormwater Partners Strategic Regional Stormwater Outreach plan and the

consortium's commitment to partnership. This success was recognized by the MS4 and municipal partners, which encouraged the Lowcountry Stormwater Partners to participate as a speaker at the 17th Southeast Stormwater Association Annual Conference in Louisville, KY on 10/12/17. We co-presented a 30-minute program called, "Cooperative Education and Involvement Programming", alongside Clemson's Extension's Carolina Clear program, Anderson & Pickens Counties Stormwater Partners consortium. The presentation covered how Clemson Extension's Carolina Clear program cooperatively educates communities about water quality, water quantity, and the cumulative effects of stormwater. It demonstrated to participants how Clemson Extension's Carolina Clear program can be a model for other states. The presentation encouraged the audience to consider working regionally and to educate and involve target audiences in stormwater pollution prevention for NPDES permit compliance. The Lowcountry Stormwater Partners were responsible for describing how the Clemson Extension's Carolina Clear consortiums create and modify strategic education plans. 29 people who attended the session turned in evaluations. The evaluations rated on a scale of 1-7, where 7 was an excellent presentation and 1 was a poor presentation. 38% of respondents rated us at a 7, 45% of respondents rated us at a 6, and 14% of respondents rated us at a 5.

However, the Lowcountry Stormwater Partners have not settled for the progress that has already been made. We are participating in and planning to launch a pet waste campaign in 2018 as part of the Clemson Extension's Carolina Clear's newest mass media campaign. Currently, the project is conducting a needs assessment and market research on dog owners and will forward into a logic model to describe the appropriate activities to be taken later in the year. We are also planning the Beaufort County Senior Leadership environmental days, which will take place in late April, to educate, create, and train volunteers. Also, the Neighbors for Clean Water program was workshopped in January and the program design indicated that a needs assessment needed to be done prior to project planning. This needs assessment will be done in 2018. This needs assessment will also form the base information for further campaigns, such as septic awareness.

2. Provide an evaluation of where the program needs improvement and explain any actions that will be taken to achieve objectives:

The Lowcountry Stormwater Partners reached its improvements goals outlined in the 2016 annual report, which were expanding its outreach efforts as well as directly engaging with specific target audiences. Our total impacts have significantly increased from 161, 098 to 829, 124. This is an increase of over 400%! However, the Lowcountry Stormwater Partners could make their programs even more effective by conducting more needs assessments prior to developing programs. We are addressing that need by participating in the 2018 Carolina Clear Local Perceptions Survey and conducting a needs assessment for the Neighbor for Clean Water program. Another area where the Lowcountry Stormwater Partners can improve is developing a more detailed program evaluation. The current evaluation forms indicated that our existing programs are positive and informative experiences, but lack some robustness in clarifying what was learned and if there was a subsequent behavior change. This year, the Lowcountry Stormwater Partners will use a similar, but more detailed evaluation form and follow-up more with program participants to see if there were any behavior changes.

III. Minimum Control Measures (MCM)

D. Minimum Control Measure 2: Public Involvement/Participation (4.2.2, 5.3)

Use the table below to summarize public involvement opportunities, goals, and progress for the current reporting year. In the "activities conducted and planned" section, focus on activities that were conducted in the last reporting year and those that are planned for the upcoming reporting year, providing implementation dates. Add rows where needed and attach additional sheets if necessary.

In the "Pollutant of Concern" column in the following tables, the following abbreviations are used:

Abbreviation	Pollutant of Concern
POC #1	Post-construction maintenance
POC #2	Freshwater (runoff volume)
POC #3	Litter
POC #4	Bacteria
POC #5	Nutrients
POC #6	Sediment
GSA	General Stormwater Awareness
CM	Consortium Management
FOG	Fats, Oils, and Grease

Please see the attached "2016-2018 Strategic Regional Stormwater Outreach Plan" for a complete list of all activities planned for the upcoming year. Below are last year's accomplishments as well as the activities that are furthest along in their planning stages

Pollutant of Concern	Outreach Strategy *(include target audiences)*	Measurable Goal(s)	Progress on Goal(s)	Activities Conducted and Planned *(specific implementation dates)*	Number of People Reached
CM, GSA	Lowcountry Stormwater Partners partner recruitment		Ongoing	By engaging with local organizations and involving them in the consortium has helped to increase Lowcountry Stormwater Partners' reach and ability to provide stormwater education and involvement opportunities.	4
GSA	Staff training on good housekeeping (*Technical staff, engineers, developers, field staff, maintenance/facilities staff, supervisory staff, administrators, stormwater managers*)	To educate staff on general stormwater issues, IDDE, and good housekeeping practices and to be compliant with MCM 6.	Completed	The Town of Hilton Head Island identified all their staff to be trained. Training occurred on 2/27/17 (27 participants), 7/20/17 (8 participants), and 11/15/17 (7 participants).	45

GSA	Lowcountry Stormwater Partners Partner Facebook (*General public*)	These pages are managed by partner organizations but will assist the Lowcountry Stormwater Partners in spreading information about public participation opportunities and other relevant information. Their effectiveness will be tracked through "Likes".	Ongoing		68192
GSA	Community Development Department Arbor Day Tree Planting (*General public*)	The goal of this event was to engage citizen in a community involvement activity and to mitigate water quality and other environmental concerns by planting trees. Its effectiveness was determined by the number of volunteers and trees planted.	Completed	On 12/1/17, the volunteers and Town of Hilton Head Island staff planted 75 seedling live oaks in hurricane damaged areas of 2 public parks to help replace some of the trees lost to hurricanes	100
GSA, CM	Lowcountry Stormwater Partners consortium meetings (*Consortium members, general public*)	These meetings are for partners to update each other and to address consortium business such as workshops, current events, etc.	Ongoing	One meeting was held on 11/28/2017. 13 individuals attended.	13
POC #1, GSA	Toured ponds and offered pond management advise to the Rose Hill Plantation board (*Residents*)	The Rose Hill Plantation Board invited Clemson Extension into their community to discuss management strategies for creating healthier, more sustainable stormwater ponds.	Completed	The Clemson Extension Water Resources agent was invited to the Rose Hill Plantation because of their participation in the 2017 Beaufort Area Stormwater Pond Conference. She visited on 11/1/2017, saw 8 ponds and recommended BMPs to improve their function. She will partner with them in the future as part of their upcoming pond education campaign.	3
POC #1, POC #6, GSA	Certified Erosion Prevention and Sediment Control Inspector (CEPSCI) (*Technical staff, stormwater managers, field staff, construction workers*)	The purpose of the CEPSCI Program is to educate field personnel on the proper installation, maintenance and inspection of erosion prevention and sediment control measures at construction sites to meet state and local regulations. Its success will be measured in number of participants.	Ongoing		1208

POC #1, GSA	Certified Stormwater Plan Reviewer (CSPR) (*Technical staff, planners, engineers, stormwater managers, developers*)	The purpose of the CSPR Program is to educate personnel on the proper design and review of stormwater and sediment control plans for development sites to meet state and local regulations. Its success will be measured in number of participants	Ongoing		55
POC #1, GSA	Post Construction Best Management Practice Inspector (*Technical staff, stormwater managers, field staff*)	Post Construction BMP Inspector program provides online and field-based training focused on inspection and maintenance of best management practices used for stormwater management. Students have the chance to discuss and view bioswales, dry detention basins, wet detention basins, green roofs, pervious pavement, rainwater harvesting and more. Its success will be measured in number of participants.	Ongoing	The class was offered twice in 2017, with field days hosted at the Trident Technical College Campus, in North Charleston (10/25/17) and at Furman University in Greenville (6/1/17). A total of 46 individuals participated in BMP in 2017.	46
POC #1, POC #2, POC #3, POC #4, POC #5, GSA	Educational stormwater display at the Port Royal Farmer's Market (G*eneral public*)	This display will be source of stormwater and better management practice information and consist of brochures, post cards, fact sheets, etc. This strategy's effectiveness will be determined by the amount of people reached.	Ongoing	Clemson Extension Agents and Master Gardener volunteers were present with stormwater outreach materials at 3 farmer's markets.	N/A
POC #1, POC #2, POC #3, POC #4, POC #5, GSA	2nd Annual Charles Fraser Sustainable Resort Development Conference (*Homeowners, commercial businesses, PUDs*)	The goal of this conference was to arm attendees with the information, tools, and motivation needed to implement sustainable practices at their own resorts and organizations.	Completed	This conference was held on 9/6/2017 and 100 individuals attended.	100
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Carolina Clear Facebook (*General public*)	The goal of this page is to provide a forum for public participation, to increase awareness of storm water's effects on water quality, and increase awareness of public participation opportunities. Its effectiveness will be tracked through views.	Ongoing		25372

POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Carolina Clear YouTube (*General public*)	The channel's goal is to provide a clearing house of stormwater information. Its use will be tracked through site views.	Ongoing	This channel hosts 76+ videos that include television commercials, local channel community segments, how-to videos, street interviews, and more.	6612
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA, CM	Lowcountry Stormwater Partners Facebook (*General public*)	The goal of this page is to provide a forum for public participation, to increase awareness of storm water's effects on water quality, and increase awareness of public participation opportunities. Its effectiveness will be tracked through "Likes".	Ongoing		198
POC #1, POC #2, POC #4, POC #5, POC #6, GSA	Providing HOA stormwater pond binders (*Residents, pond managers*)	These binders serve to help pond owners (particularly residents and HOA boards) maintain their stormwater ponds by providing information and materials pertaining to stormwater pond design, function, inspection, and maintenance.	Ongoing	These binders are available in hard copy at the Clemson Extension Office and online at the Clemson Stormwater Pond website.	N/A
POC #1, POC #2, POC #4, POC #5, POC #6, GSA	Neighbors for Clean Water program(*Residents*)	This program will help residents reduce their stormwater footprint through residential BMP trainings.	In Planning	This program is in the beginning development stages. It will be workshopped at the ACE Basin's NERR's Planning Effective Workshops training in January 2018. From there a program will be created and followed.	N/A
POC #1, POC #4, POC #5, POC #6, GSA	2017 Beaufort Area Stormwater Pond Conference (*Pond managers, residents, PUD, elected & appointed officials, technical staff, supervisory staff, facilities, maintenance, field staff, developers*)	The conference was designed to help stormwater pond owners/HOA representatives, property management professionals, and pond management professionals learn more about current pond management techniques. The conference was split into two tracks, one for pond owners and one for the more technical pond managers, to better serve these audiences. Its effectiveness was determined through evaluations.	Completed	The 2017 Beaufort Area Stormwater Pond Management Conference took place on 10/19 at USCB's Bluffton campus from 8:30am – 4:00pm. The conference was jointly organized by Clemson Extension and the Lowcountry Stormwater Partners, the South Carolina Sea Grant Consortium, the South Carolina Department of Natural Resources, and the Ace Basin National Estuarine Research Reserve to serve a need within the Lowcountry community. 88% of respondents agreed that the conference was a good use of their time and 100% of respondents reported knowledge gain. Finally, 87% of respondents reported that they learned something at the conference that they would apply in the future.	98

POC #1, POC #4, POC #5, POC #6, GSA	Spring 2017 Master Pond Manager course (*Pond managers, technical staff, supervisory staff, facilities, maintenance*)	Participants in the 2017 Spring Master Pond Manager course actively engage in self-paced lectures, discussion, and quizzes in the online classroom. They covered topics such as pond design, inspection, and maintenance as well as limnology, integrated aquatic plant management, fish management, and best management practice (BMP) function, design, and installation. Course participants also can meet with their instructors face-to-face and to apply what they learned in the classroom to real-world situations during two field days.	Completed	32 participants enrolled in this course offering and installed a 300 sqft shoreline planting.	32
POC #1, POC #4, POC #5, POC #6, GSA	Master Pond Manager course (*Pond managers*)	Attendance and certifications	Ongoing	49 participants, 48 certifications	49
POC #1, POC #5, GSA	Rain Garden Clean-Up event (*Residents*)	To maintain a Beaufort County Rain Garden and engage citizens in BMP maintenance.	Completed	Master Gardener volunteers spent three hours weeding, mulching, and pruning the Beaufort County Rain Garden on 6/27/17.	5
POC #2, GSA	Beaufort County Senior Leadership environment days (*Residents*)	The Leadership Program provides information about civic,social, and educational activities. Beaufort County Senior Leadership expands awareness about daily life in the Lowcountry and helps participants navigate their way toward identifying volunteer and community involvement.	In Planning	The Lowcountry Stormwater Partners were a part of the planning committee for the two classes that center around environmental issues and involvement. The consortium will give presentations on both days, which are 3/28/18 and 4/4/2018, and will assist with informing, training, and recruiting volunteers for the consortium.	
POC #2, POC #3, GSA	17th Annual May River Cleanup and Earth Day Festival (*Residents, youth, higher education students, teachers, commercial businesses, boat owners, operators, marinas, pet owners*)	The goal of the Annual May River cleanup is to engage and involve citizens in removing litter from their environment and marking storm drain to prevent further litter and stormwater pollution. Its effectiveness will be determined through number of volunteers and pounds of litter removed.	Completed	The 17th Annual May River Cleanup took place on 4/22/17. On that day, 350 volunteers picked up litter along 3 miles of the May River shoreline from 9:00am – 11:30am, for a total of 1,200 volunteer hours. The volunteers collected 2,080 lbs. of solid waste (440lbs of which was recycled) and marked more 50 storm drains in Old Town Bluffton.	325

POC #2, POC #3, GSA	May River Cleanup Participation Challenge Reward presentation (*Youth*)		Completed	The Town of Bluffton and Coastal Kingdom gave MC Riley Elementary School a special presentation on 5/17/2017 as a prize for winning the May River Cleanup Participation Challenge Reward.	150
POC #2, POC #3, POC #4, POC #5, GSA	Provided Enviroscape demonstrations for the St. Helena Elementary Career Day (*Youth*)	The Enviroscape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution.	Completed	This presentation was given on 3/24/2017 at St. Helena Elementary School to their fifth graders.	41
POC #2, POC #3, POC #4, POC #5, GSA	Provided Enviroscape demonstrations for the Tanger Outlet's Touch-A-Truck (*Residents, youth*)	The Enviroscape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution.	Completed	These demonstrations were given on 4/1/2017.	120
POC #2, POC #3, POC #4, POC #5, GSA	Provided Enviroscape demonstrations for the Outside Foundation's Kids in Kayaks program (*Youth*)	The goal of the Kids in Kayaks program in to bring local youth outside and to have them participate in experiential learning about their local ecosystems and natural resources.	Completed	These presentations were given on 4/24/2017 at the Shelter Cove Marina.	50
POC #2, POC #3, POC #4, POC #5, GSA	Provided Enviroscape demonstrations for the Outside Foundation's Kids in Kayaks program (*Youth*)	The goal of the Kids in Kayaks program in to bring local youth outside and to have them participate in experiential learning about their local ecosystems and natural resources.	Completed	These presentations were given on 10/6/2017 at the Shelter Cove Marina.	29
POC #2, POC #3, POC #4, POC #5, POC #6, GSA, Petroleum products	Good housekeeping training (*Technical staff, engineers, developers, supervisory staff, administrators, stormwater managers*)	To educate staff on general stormwater issues, IDDE, and good housekeeping practices and to be compliant with MCM 6.	Completed	On 11/14/17, the Town of Bluffton Project Management Division staff were trained on general stormwater awareness, good housekeeping practices, and IDDE. There was a focus on sediment and erosion control.	7
POC #2, POC #3, POC #4, POC #5, POC #6, GSA, Petroleum products, Pesticides, FOG, IDDE	Good housekeeping training (*Field staff, maintenance, facilities*)	To educate staff on general stormwater issues, IDDE, and good housekeeping practices and to be compliant with MCM 6.	Completed	On 10/16/17, the Town of Bluffton Public Works staff was trained on general stormwater awareness, good housekeeping practices, and IDDE.	8
POC #2, POC #3, POC #5, GSA	Port Royal Sound Foundation Maritime Center's field trips program (*Youth*)	To advance the awareness of Port Royal Sound and its contributions to the environmental, cultural and economic well-being of our area, the region	Ongoing	Through hands-on experiments and discovery, students not only see the amazing life of our local environment, but also experience it firsthand. Participants include in all grades from public, private and charter schools and homes-schooling programs, as	2291

		and the Atlantic Ocean.		well as after-school and summer programs.	
POC #2, POC #3, POC #5, GSA	Port Royal Sound Foundation Maritime Center's education events (*General public*)	To advance the awareness of Port Royal Sound and its contributions to the environmental, cultural and economic well-being of our area, the region and the Atlantic Ocean.	Ongoing	Special events that regularly take place at the Center with water-quality and related themes. Examples of these programs include: Tuesday Talks (A classroom series led by area experts on a variety of topics), Eco Boat Excursions (A scientific expedition of the Port Royal Sound area via a classroom on a boat), Dolphin Research Cruises (An Eco-Boat tour meets dolphin research!), and Nautilus LIVE (Researchers aboard E/V Nautilus visit our classroom via LIVE streaming video)	1544
POC #2, POC #4, POC #5, POC #6, GSA	Installation of New Riverside Pond floating wetlands (*Residents*)	This project had community members involved in installing floating wetland BMPs to help maintain the New Riverside stormwater pond. Their effectiveness will be determined through water quality testing.	Completed	Volunteers from the North Face Store, led by the Town of Bluffton, installed floating wetland BMPs in the New Riverside Pond on 5/8/17.	2
POC #2, POC #4, POC #5, POC #6, GSA	Community Grants program (*Residents, businesses*)	This application-based mini-grant program will pay contractors to install demonstration stormwater BMPs (rain gardens, rain barrels, shorescaping, geese fencing, pet waste stations, downspout planter boxes, and floating wetlands) on highly visible private property (such as apartment complexes, restaurants, doctor's offices, etc.)	In Planning	The budget is now available to subsidize downspout planter box, pet waste station, and rain barrel installations.	N/A

POC #2, POC #5, GSA	Master Naturalist program (*Residents, teachers, technical staff, field staff, facilities, maintenance*)	The South Carolina Master Naturalist Program aims to create a statewide corps of volunteers sponsored through the Clemson Extension Service providing education, outreach, and service dedicated to the beneficial management of natural resources and natural areas within their communities. Interested South Carolinians become Master Naturalists through training and volunteer service	Ongoing	The Lowcountry Institute holds the 12 session Master Naturalist courses four times a year. Individuals who participate in the program bring diverse skills and experiences that contribute time, energy and ideas in maintaining the native eco-systems throughout the South. After receiving training, Master Naturalists may participate in many different types of volunteer activities. These might include assisting in a nature outreach program at a park, museum, nature center or school; assisting a scientist collecting bird census data; collecting data on water quality or many others.	100
POC #2, POC #5, POC #6	Lowcountry Master Gardener community services (*Residents, youth, higher education students, elected & appointed officials*)	The Master Gardener program was designed to use the services of trained volunteers who have horticultural knowledge and a willingness to share that knowledge with other county residents through Cooperative Extension.	Ongoing	The Master Gardeners in Beaufort County remain active all year long and provide community involvement services such as: answering home horticulture calls at the Extension office, speaking to garden and civic clubs, speaking with youth or senior groups, and assisting communities with horticultural projects.	1295
POC #2, POC #5, POC #6, GSA	Port Royal Elementary School rain garden (*Youth*)	As part of the Green Steps Schools program, the Lowcountry Stormwater Partners will assist the third graders of this school design and install a demonstration rain garden.	In Planning	Site is selected and materials secured. Will be planted in spring 2018.	
POC #3	Whale Branch Elementary School Green Steps School Projects Kick-Off (*Youth*)	The goal of this meeting was to plan and implement projects for Whale Branch Elementary School's Green Step Schools certification. Its effectiveness will be measured by the success of its projects.	Completed	On 12/1/2017, Whale Branch Elementary School committed to and began implementing the following three projects: 1. Recycling - elimination of litter & trash 2. Composting - elimination of litter & trash 3. Rain Barrel - collect rain water and use to water garden plot (rain barrel installed same day) This was done with the Beaufort County Soil and Water Conservation District.	200
POC #3	Beach Sweep (*Residents, youth, higher education students, teachers, commercial businesses, boat owners, operators, marinas, pet owners*)	The goal of the beach sweep is to engage and involve citizens in removing litter from their environment and marking storm drain to prevent further litter and stormwater pollution. Its effectiveness will be determined through	Cancelled	The 2017 beach sweep was cancelled due to Hurricane Irma and the subsequent maintenance concerns.	N/A

		number of volunteers and pounds of litter removed.			
POC #3	Beaufort County Council workshop on banning single use plastic bags (*Elected & appointed officials and high-level staff*)	To discuss and work on language for a potential ban on single use plastic bags. Its effectiveness will be determined by a resolution on the matter.	Completed	Beaufort County Council met to discuss banning single use plastic bags on 10/5/17.	25
POC #3	Beaufort County Council workshop on banning single use plastic bags (*Elected & appointed officials and high-level staff*)	To discuss and work on language for a potential ban on single use plastic bags. Its effectiveness will be determined by a resolution on the matter.	Completed	Beaufort County Council met to discuss banning single use plastic bags on 10/16/17.	25
POC #3	Beaufort County Council workshop on banning single use plastic bags (*Elected & appointed officials and high-level staff*)	To discuss and work on language for a potential ban on single use plastic bags. Its effectiveness will be determined by a resolution on the matter.	Completed	Beaufort County Council met to discuss banning single use plastic bags on 10/25/17.	25
POC #3	Beaufort County Council workshop on banning single use plastic bags (*Elected & appointed officials and high-level staff*)	To discuss and work on language for a potential ban on single use plastic bags. Its effectiveness will be determined by a resolution on the matter.	Completed	Beaufort County Council met to discuss banning single use plastic bags on 11/1/17.	25
POC #3	Beaufort County Council workshop on banning single use plastic bags (*Elected & appointed officials and high-level staff*)	To discuss and work on language for a potential ban on single use plastic bags. Its effectiveness will be determined by a resolution on the matter.	Completed	Beaufort County Council met to discuss banning single use plastic bags on 11/8/17.	25
POC #3	Adopt-A-Highway program (*Residents*)	The Adopt-A-Highway program is a part of Palmetto Pride and Keep Beaufort County Beautiful. Its mission is to eradicate litter and promote beautification in South Carolina. It conducts litter pick-ups and measures effectiveness in number of volunteers, number of active volunteer groups, number of volunteer hours, and pounds of litter removed.	Ongoing	There were 2,996 volunteers who were part of 85 active volunteer groups who spent 3,996 hours picking up 89,160 lbs. of trash.	2996
POC #3, GSA	Storm drain marking (*General public, business*)	Storm drain marking seeks to prevent litter and other stormwater runoff pollution from entering waterways by serving as a visual reminder of how the storm sewers connect directly to local waterways.	Completed	The Clemson Extension Water Resources Agent partnered with the Shelter Cove Marina and marked five storm drains with one volunteer on 2/23/2017.	1

POC #3, GSA	Storm drain marking (*General public, business*)	Storm drain marking seeks to prevent litter and other stormwater runoff pollution from entering waterways by serving as a visual reminder of how the storm sewers connect directly to local waterways.	Completed	The Town of Hilton Head Island partnered with 8 volunteers to mark storm drain on of three marinas on Hilton Head Island on 9/1/17.	8
POC #3, GSA	Storm drain marking (*General public, business*)	Storm drain marking seeks to prevent litter and other stormwater runoff pollution from entering waterways by serving as a visual reminder of how the storm sewers connect directly to local waterways.	In Planning	Kits are ready and looking for volunteer groups. Will be recruiting volunteers at the 1/23/18 Lowcountry Master Naturalist Association Meeting.	
POC #3, POC #5, GSA	South Carolina Adopt-A-Stream citizen monitoring (*Residents*)	South Carolina Adopt-a-Stream (SC AAS) creates a network of watershed stewardship, engagement, and education through involvement. SC AAS volunteers can play an important role in monitoring and tracking water quality while sharing information about local water resources with their communities. In providing baseline information about stream conditions, volunteers, local communities, educators, and local government agencies can partner to protect and restore our waters. Its effectiveness will be monitored by the number of trained volunteer groups.	Ongoing	Marketing materials for this program are on display at the Clemson Extension Office. However, no volunteer groups can form until a saltwater monitoring program is created.	N/A
POC #4, POC #5, POC #6, GSA	Carolina Yards Facebook (*Homeowners*)	The goal of this page is to provide a forum for public participation, to increase awareness of simple and effective actions to help guide residents towards a low maintenance and environmentally friendly yard, and to increase awareness of course offerings. Its effectiveness will be tracked through “Likes”.	Ongoing		541

POC #4, POC #5, POC #6, GSA	Carolina Yards program (*Homeowners*)	Clemson Extension's Carolina Yards program works with residents to create healthy, watershed-friendly landscapes. Using simple and effective gardening methods, create a low maintenance yard that works with nature, rather than against it. Carolina Yards also regularly offers a five week, online course designed to help Carolina gardeners learn to grow and maintain a low maintenance and low impact yard. The program's success will be measured in newly certified yards.		No courses were offered this year, but there were 22 newly certified yards.	22
POC #5, POC #6, GSA	Making It Grow! (*Homeowners*)	Its use will be tracked by views (number reported is the average number of persons per household applied to the projected number of households that viewed Making It Grow! during the 2016 calendar year. This number is conservative as it does not account for the SC Channel and only represents one episode's viewing).	Ongoing	*Number reported is the average number of persons per household applied to the projected number of households that viewed Making It Grow! from May 2016 through November 2017. This number is conservative as it does not account for the SC Channel and only represents one episode's viewing.	22162
Total Number of Individuals Impacted					**134,149**

E. Control Measure Evaluation (5.3)

1. Evaluate the success of this MCM. Refer to goals implemented and achieved, and adherence to the implementation schedule:

The implementation of MCM#2 was successful in the Hilton Head Urbanized Area for several reasons. The most notable success was the 2017 Beaufort Area Stormwater Pond Management Conference. The conference took place on 10/19 at USCB's Bluffton campus from 8:30am – 4:00pm. It provided a forum to give the latest information, resources and tools on pond management. The conference was jointly organized by Clemson Extension and the Lowcountry Stormwater Partners, the South Carolina Sea Grant Consortium, the South Carolina Department of Natural Resources, and the Ace Basin National Estuarine Research Reserve to serve a need within the Lowcountry community and to maintain the implantation schedule on the 2016-2018 Lowcountry Stormwater Partners Strategic Regional Stormwater Outreach Plan. The 2017 conference was part of a series of six pond conferences along the South Carolina coast that have been taking place since 2012. The conference was designed to help stormwater pond owners/HOA representatives, property management professionals, and pond management professionals learn more about current pond management techniques. The conference was also split into two tracks, one for pond owners and one for the more technical pond managers,

to better serve these audiences. Each participant received presentations and advice from local and regional experts in pond management, opportunities to interact with organizations and businesses in the pond management industry, a resource package with information and reference materials, lunch, and continuing education credits. Participants also went outside and participated in a stormwater pond inspection and created their own results form. Conference topics included integrated weed management, shoreline stabilization, and wildlife management. 111 people pre-registered for the conference and 98 people attended. Out of the 98 participants, 62 people turned in evaluations. The evaluations revealed that 43% of respondents were HOA/community members and 24% were business representatives. 88% of respondents agreed that the conference was a good use of their time and 100% of respondents reported knowledge gain. Finally, 87% of respondents reported that they learned something at the conference that they would apply in the future.

An unforeseen consequence of this conference was two large HOA communities reaching out to the Lowcountry Stormwater Partners to become more involved in stormwater pond management. The Rose Hill Plantation Board reached out to the Clemson Extension Water Resources Agent and invited her to tour their ponds and give feedback on their current management strategies as well as to comment upon future management ideas that were inspired by their attendance at the conference. Similarly, the Coosaw Point HOA Board also reached out to the Clemson Extension Water Resources Agent for advice on designing and installing a shorescape, a BMP that was described at the conference. This is a perfect example of community involvement leading to behavior changes.

Another example of a successful community involvement program is how the Lowcountry Stormwater Partners hosted the 2017 Spring course of the Master Pond Manager program. In this course, 32 participants actively engaged in self-paced lectures, discussion, and quizzes in the online classroom, managed by the Lowcountry Stormwater Partners. They covered topics such as pond design, inspection, and maintenance as well as limnology, integrated aquatic plant management, fish management, and BMP function, design, and installation. However, on 5/11/17 and 5/12/17, course participants had the opportunity to meet with their instructors face-to-face and to apply what they learned in the classroom to real-world situations. On 5/11/17, we hosted the Master Pond Manager Stormwater Pond Field Day. At this event, 25 participants learned how to read construction drawings and how to perform detailed stormwater pond inspections. The highlight of the day, though, was the opportunity to install a shoreline buffer, or shorescape. Working together, the 25 participants planted a 300sqft shorescape along a pond at the Beaufort County Administration Complex with native plants. Then, on 5/12/17, we hosted the Master Pond Manager Recreational Field Day. At this event, 16 participants toured Spring Island and discussed pond design, rookery management, and practiced delineating wetlands. The highlight of the day, though, was the opportunity to sample fish populations in the pond using fish traps, seine nets, and cast net. The students were encouraged to identify and measure fish as well as draw some preliminary conclusions about the state of the ponds' fisheries.

The Lowcountry Stormwater Partners furthered engaged the community in stormwater pollution prevention by partnering with the Town of Bluffton, Clemson Extension, Beaufort County, Conservation District, Port Royal Sound Foundation, USC-B, DNR, Savannah Riverkeeper, Walmart, Starbucks, Marshgrass Adventures, Be Green Packaging, Adams Outdoor Advertising, Bojangles, Outside Hilton Head, Beaufort County Solid Waste & Recycling, Keep Beaufort County Beautiful, Palmetto Pride, Experience Green, American Rivers, i2 Recycle, The Outside Foundation, and MC Riley Elementary to put on the 17th Annual May River Cleanup. The 17th Annual May River Cleanup took place on 4/22/17. On that day, 350 volunteers picked up litter along 3 miles of the May River shoreline from 9:00am – 11:30am, for a total of 1,200 volunteer hours. The volunteers collected 2,080 lbs. of solid waste (440lbs of which was recycled) and marked more 50 storm drains in Old Town Bluffton. The Lowcountry Stormwater Partners led a group of five volunteers at the May River cleanup that marked these 50 storm drains.

Finally, the Lowcountry Stormwater Partners continued to make strides towards fulfilling MCM#2 by completing goals such as the upkeep of a consortium website, social media platforms, and regular e-newsletters. These platforms allow the public to seek out and engage with the Lowcountry Stormwater Partners from a

computer or smart phone. Being present at partner and community events like the Outside Foundation's Kids in Kayaks program, the Tanger Outlets' Touch-A-Truck Event, the St. Helena Elementary School Field Day, and the SCASM exhibitor's hall is also a great way to be present and available for the public. Events like these are especially useful as they allow for educational outreach at the same time, which can spark a conversation on how anyone can become involved in stormwater activities.

2. Provide an evaluation of where the program needs improvement and explain any actions that will be taken to achieve objectives:

The Lowcountry Stormwater Partners reached its' improvement goals outlined in the 2016 annual report, which were expanding its outreach efforts as well as directly engaging with specific target audiences. Our total impacts have significantly increased from 103, 694 to 134,149. This is an increase of approximately 30%! These events not only combined an educative aspect, but also skill building and partnership affirmation. The Lowcountry Stormwater Partners will continue these efforts as well as continue to update its social media platforms and website to keep citizens fully engaged and involved. Finally, the Lowcountry Stormwater Partners is also continuing to work to become more of a presence at partner events and more recognizable and approachable in the public's eye.

However, one area of improvement that the Lowcountry Stormwater Partners can work on is community engagement within neighborhoods. That's why in 2018, we plan to launch the Lowcountry Stormwater Partners community grants program. This application-based mini-grant program will pay for the installation of demonstration stormwater BMPs on highly visible private property such as apartment complexes, restaurants, doctor's offices, etc. The Lowcountry Stormwater Partners will also install improved pet waste stations in Beaufort County as part of the 2018 Carolina Clear mass media campaign.

Lowcountry Stormwater Partners
2016-2018 Strategic Regional Stormwater Outreach Plan

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12/1/2016

Introduction

Beaufort County, the City of Beaufort, Town of Bluffton, Town of Hilton Head Island, and Town of Port Royal have agreed to work together across municipal and watershed boundaries to address stormwater education and awareness needs. With this commitment, the communities have selected to work with the Clemson Extension Carolina Clear program. Carolina Clear seeks to develop outreach and involvement opportunities that lead to sustained behavior changes that protect water resources. This is best accomplished through meaningful partnerships; thus, the region has selected to work locally as the Lowcountry Stormwater Partners (LSP), inviting other educational institutions, utilities, non-profits, property management companies, and the supporting municipal and county partners to deliver consistent outreach programming to target audiences. Additionally, the partnership will work towards a comprehensive and whole community change in increasing personal responsibility for the discharge of polluted stormwater runoff and freshwater impacts to this unique marine system in the Lowcountry of South Carolina.

Through surveys, regional communication, and data gathering, LSP has worked towards the development of a strategic outreach plan to address major concerns of partners, relevant and involved audiences, and documented water quality concerns. This strategic outreach plan is believed to also meet the public education and involvement requirements of the 2013 National Pollution Discharge Elimination System (NPDES) General Permit for Storm Water Discharges from Regulated Small Municipal Separate Storm Sewer Systems (SMS4s) and will be implemented beginning in July 2016 through 2018.

In the development of this strategic stormwater education and involvement plan, Carolina Clear and partners worked together to identify the Hilton Head Urbanized Area (UA) pollutants of concern. Multiple methods were used to identify the pollutants of concern, including:

- Resident stormwater awareness and knowledge surveys that were used to identify target behaviors and audiences.
- Public Works and Engineering staff surveys that identified potential issues, audiences, and concerns of those most directly involved in stormwater management.
- Ongoing area water quality monitoring results that were evaluated.
- A strategic planning meeting with local Municipal Separate Storm Sewer Systems (MS4s) and educational partners was held in order to determine the current state of water quality, ongoing stormwater projects, and to discuss potential pollutants of concern and related behaviors.
- Small group discussions were facilitated during the meeting to further evaluate audiences associated with these polluting behaviors or the decision-making processes affecting these runoff-associated pollutants. Information on events, opportunities for education, and motivation for adoption of water-protecting behaviors was collected.

The following is a summary of these efforts, accompanying the presentation of the strategic stormwater education and involvement plan for the Hilton Head UA.

I. Local Perspectives and Knowledge Surveys

In 2015, a survey was instrumented online and in-person to determine awareness, knowledge, and behaviors related to local stormwater issues in Beaufort County. Ten percent of the surveys were

collected at public locations, and 90% of the surveys were collected online at MS4 websites. There were over 700 respondents, and 50% of respondents stated that they lived in gated communities. Findings were supplemented with the results of the 2014 Carolina Clear Environmental Awareness, Knowledge and Behaviors Survey. The results were the following:

- Seventy-three percent of respondents recognized that stormwater is not treated before reaching surface waters.
- Thirty-one percent of respondents recognized the most correct definition of a watershed.
- There was some confusion between wastewater and stormwater.
- Respondents identified a wide array of audiences who they felt needed stormwater education (Figure 1).
- Eighty-five percent of respondents think pet waste contributes to water pollution.
- Eighty-one percent dispose of oil and paint at drop off centers.
- Residents did not strongly perceive stormwater ponds, feeding wildlife, boating, or golf courses as contributors to stormwater pollution (Figure 2).
- Drainage was referenced as a common issue.
- Respondents were interested in water conservation, as long as watering could occur.

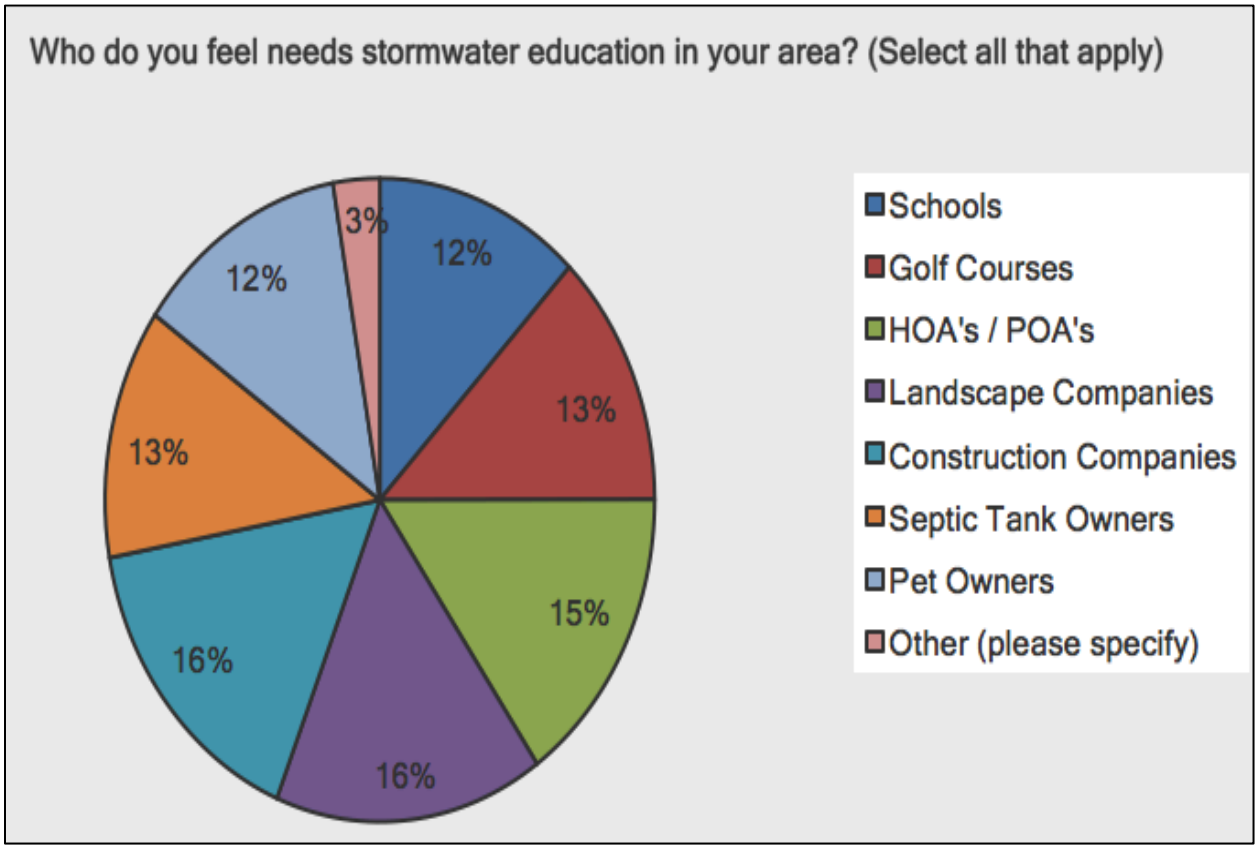


Figure 1. Public perceptions on which audiences need stormwater education in Beaufort County. These data were collected from the 2015 public stormwater awareness survey.

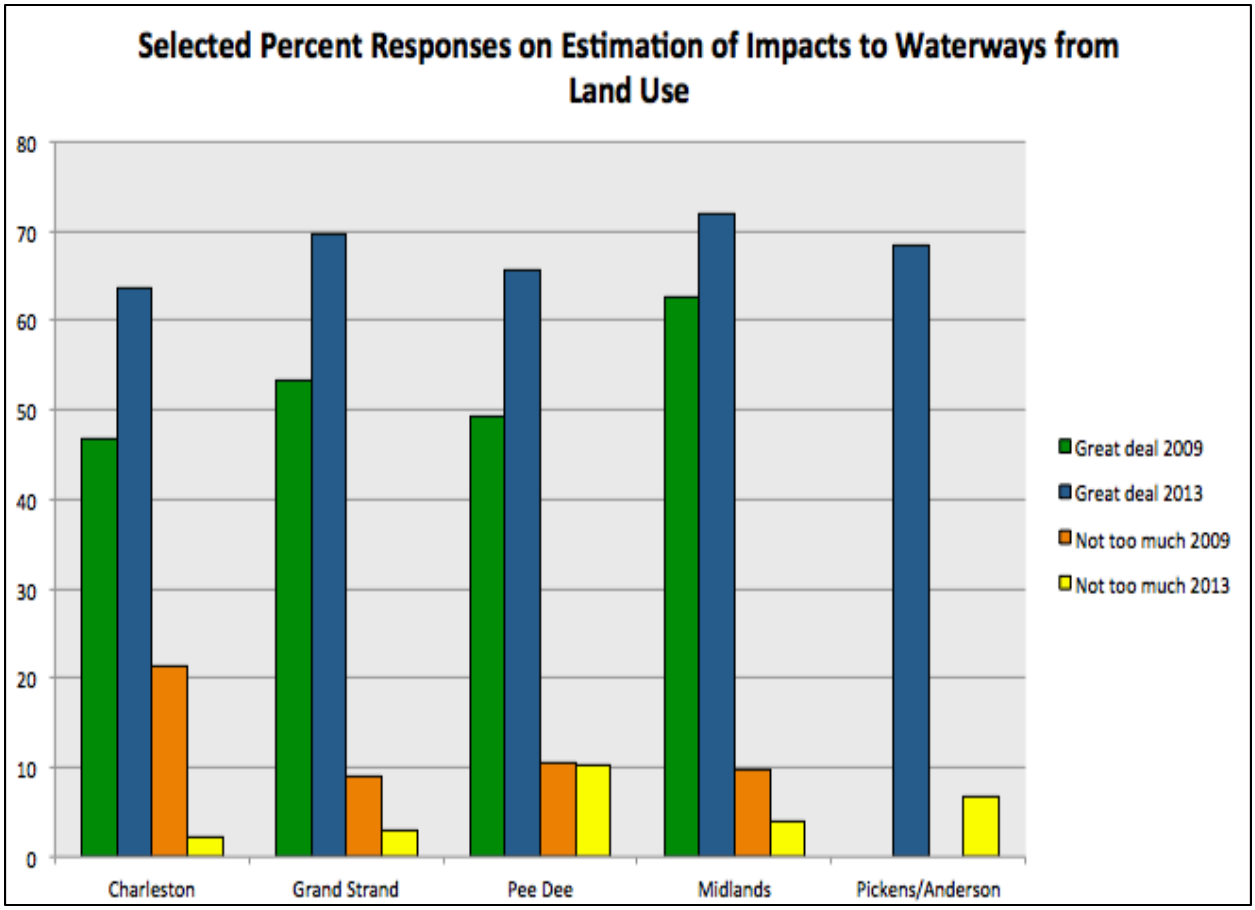


Figure 2. Public perceptions from selected areas on the estimation of impacts to waterways from land use. Charleston is the closest geographic area to Beaufort County. These data were collected from the 2014 Carolina Clear Environmental Awareness, Knowledge and Behaviors Survey.

In 2016, Carolina Clear created a survey for area Public Works' employees through Survey Monkey; its intent was to identify audiences, behaviors, and overall stormwater education needs from the perspectives of those most on-the-ground conducting stormwater management and maintenance. This survey was not made public; the 19 respondents included those familiar with stormwater operations, issues, and complaints across the region. The findings were the following:

- The priority target audiences for stormwater education are engineers, developers, landscapers, contractors, designers, HOA board members, and homeowners (Figure 3).
- The priority target pollutants to be addressed through education are bacteria, sediment from construction sites, dissolved oxygen (DO), contaminants, and trash (Figure 4).
- Forty-seven percent of the responding staff witnessed an illegal discharge or illicit connection over three times per year during their tenure.

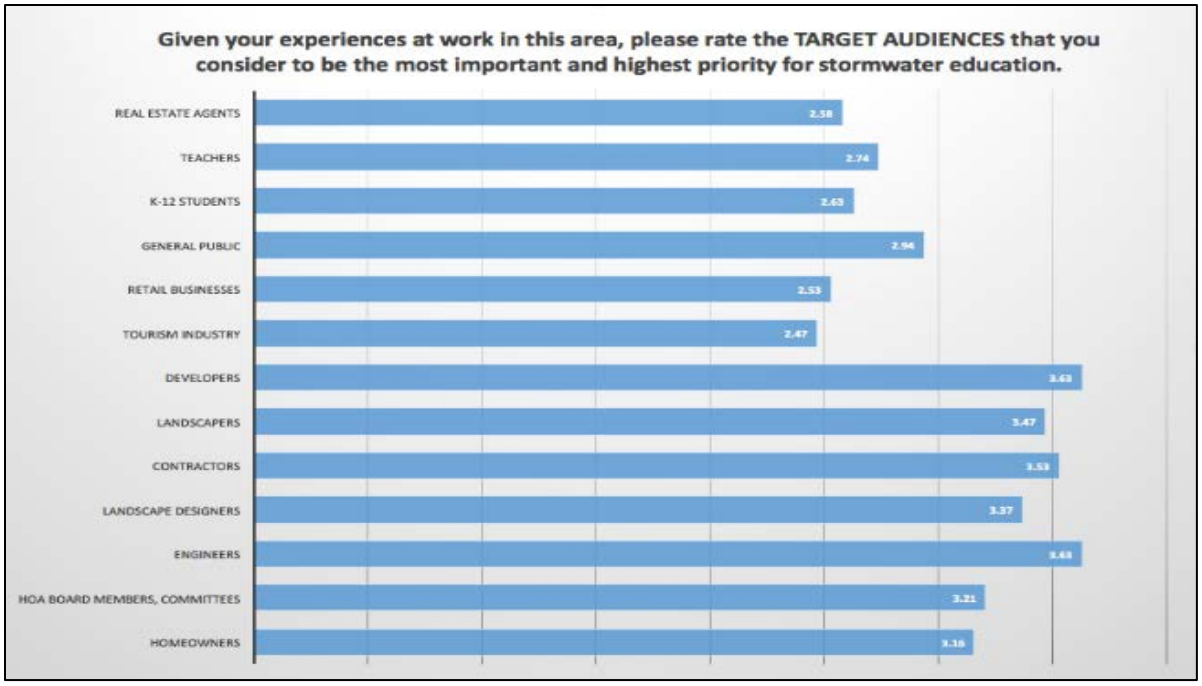


Figure 3. Perceptions of Beaufort County Public Works employees concerning target audiences for stormwater education, according to the 2016 survey conducted by Carolina Clear.

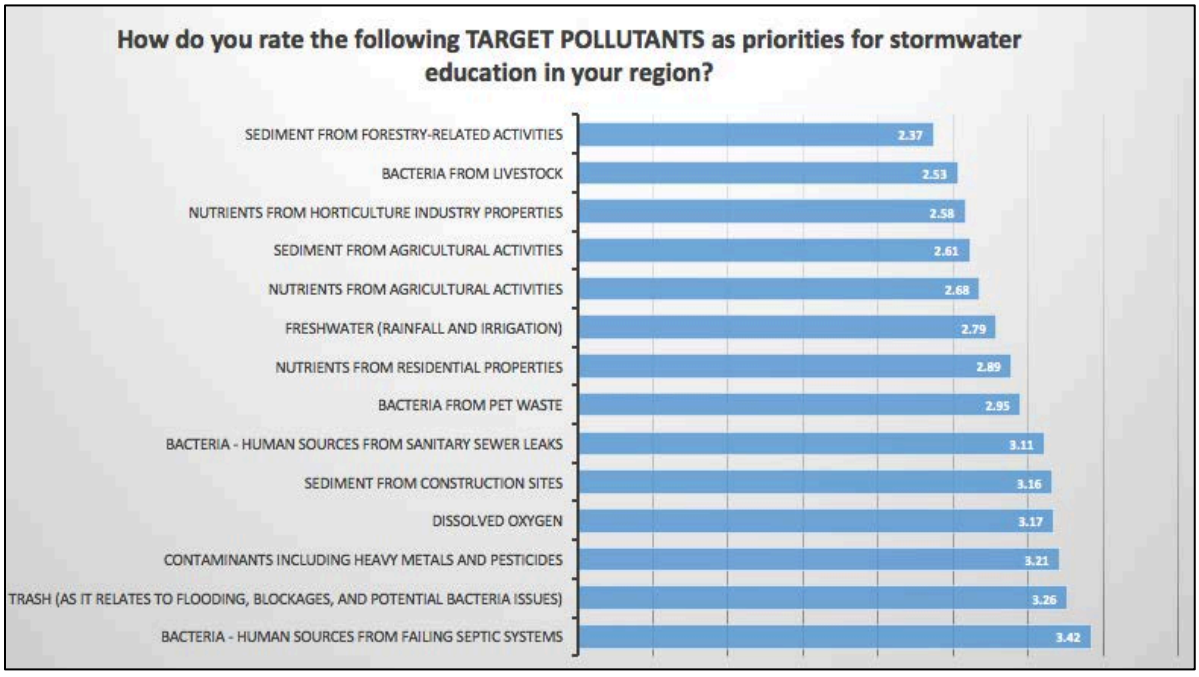


Figure 4. Perceptions of Beaufort County Public Works employees concerning target pollutants for the region, according to the 2016 survey conducted by Carolina Clear.

Results of the current 2016 Applied Technology & Management (ATM) study regarding local watershed modeling will be considered in regards to developing and implementing education and outreach programs, but is not listed here as the data have not been finalized.

II. Strategic Planning Meeting

The strategic planning meeting was held on September 29, 2016 at the Port Royal Sound Foundation, Okatie, SC. The agenda was as follows:

1. A presentation of the findings from the Local Perspectives and Knowledge surveys.
2. Presentations by the county and each of the local municipalities on the current status of water quality and stormwater programming in their area.
3. Given the presented information, a facilitated large group discussion worked to identify all pollutants of concern related to stormwater in the area.
4. Primary pollutants of concern (POCs) were identified through this list via a prioritization exercise and then discussed in small groups to identify target audiences and behaviors as well as to identify potential partners and programs.

MS4 Presentations

Beaufort County

- Adopted volume control to meet Total Maximum Daily Loads (TMDLs).
- Sample for fecal coliform due to shellfish bed closures.
- Okatie River: Fecal Coliform TMDL and on the 303(d) List of Impaired Waterbodies for Fecal Coliform
- Battery Creek: Impaired for bacteria
- Beaufort River: TMDL for DO

City of Beaufort

- Retrofitting detention pond with 319 funds

Town of Bluffton

- New River: Increasing Biological Oxygen Demand (BOD) and pH. On the 303(d) list for Enterococcus.
- May River: On the 303(d) list for Fecal Coliform
- Okatie River: Fecal Coliform TMDL
- Colleton River: Increasing BOD and decreasing pH and DO. On the 303(d) list for DO
- Monitoring program used to help inform Capital Improvement Program projects, development requirements and to determine the efficacy of Best Management Practices (BMPs)

Town of Hilton Head Island

- One beach monitoring station added to 303(d) list for enterococcus
- Monitoring samples for E. coli in freshwater, Fecal Coliform in saltwater, for nutrients (Total Nitrogen, Total Phosphorous), and for metals.
- No current TMDLs

Town of Port Royal

- No current TMDLs
- Cypress wetlands rehabbed into stormwater system
- Town attraction and working effectively as evidenced by accumulated sediment and maintenance requirements.

Hilton Head UA POC Group Discussion and Identification

Table 1. The list of all pollutants of concern and target behaviors and activities in Beaufort County identified during the strategic planning meeting. This list is not in any priority order.

Pollutant and Behaviors of Concern	Target Behavior and/or Activity
Post-Construction Maintenance	Stormwater pond focus
Runoff Volume	Dilution of saltwater, impacts on estuary and ecosystem, influence on pollutant loading
Littering	Plastic litter, tires, trash, environmental hazards, health hazards
Bacteria	Bacteria's impact to waterways and risk to public health awareness for area residents
Fertilizer (Nutrients)	Proper application of fertilizers, use of natural fertilizers (e.g. leaves, grass clippings, compost, etc.)
Irrigation Practices	Proper timing and amounts of irrigation
Irrigation Source	Pond water, reclaimed water, collecting stormwater
Septic Tanks	Installation, proper maintenance, knowledge of septic safe materials
Construction Runoff	Awareness of sediment control options, safe options around trees
Sanitary Sewer Overflows	User disposal practices
Failing Infrastructure	Maintenance, knowing when to call for repairs, public versus private infrastructure
Linking Land Use Change to Natural Resources	Quality of community, livelihoods of fisherman, shrimpers, and oyster farmers, property values, human health
Illegal Dumping	Proper disposal practices, supplies for spill prevention and control
Lawn Debris	Proper disposal of grass clippings and other landscape debris
Infiltration	Site-specific better management practices, reducing and/or mitigating impervious cover
Pesticides	Proper use and application of pesticides, Integrate Pest Management (IPM) as an alternative
Copper	Pond applications, toxicity to organisms
Commercial Grease Trap Maintenance	Awareness and regular maintenance
Boat/Dock/Marina Maintenance	Awareness of boat maintenance practices, local ordinances, and proper waste disposal
Gas Stations	Maintenance and runoff
Commercial Car Washes	Polluted runoff, pop-up, and charity car washes
Pharmaceuticals	Opportunity to properly dispose of pharmaceuticals
Pool Discharge	Proper de-chlorination, low or no impact draining
Large Item Dumping	Proper disposal, illegal dumping, link to bacteria and rodents, flooding concerns in ditches

*Though not listed in the table, industrial sites will be a priority of Beaufort County.

III. LSP Strategic Public Education and Outreach Plan

Primary POCs Ranked through Group Discussion Exercise

1. Post-Construction Maintenance and Inspection, especially related to Stormwater Ponds
2. Runoff Volume Mitigation and Minimization of Freshwater Loading to Estuarine Systems
3. Illegal Littering
4. Bacteria Impact Awareness and Septic System Management
5. Fertilizer Need, Selection, and Application
6. Sediment Related to Construction Site Runoff

Identifying Target Audiences, Behaviors, Potential Partners, and Programs for Primary POCs with Small Group Discussions

1. Post-Construction Maintenance and Inspection, especially related to Stormwater Ponds

- *Concern:* Failure to maintain an engineered stormwater practice is affecting the quality of receiving waters and could be contributing to municipal and county operations and monitoring requirements.
- *Target Audiences*: Homeowner Association (HOA) management, property management companies, golf course management, commercial property management, county/municipal staff, developers, elected officials, waterfront residents, pond management and landscape companies
- *Messages*: the purpose of BMPs and their function, regular maintenance is required for long-term BMP function and healthy waterways, recognition of ownership and responsibilities (public versus private), relationship to stormwater utility fee, benefits of maintenance
- *Resources and Partners:* Lagoon committees, Marsh Association, pond management companies, Department of Natural Resources (DNR), Port Royal Sound Fountain (PRSF), State/MS4 design manuals
- *Short-term Goals*: To increase awareness of proper inspection and maintenance practices
- *Long-term Goals*: Demonstrate the application of this knowledge and training for better site control, maintenance, and less polluted discharge

2. Runoff Volume Mitigation and Minimization of Freshwater Loading to Estuarine Systems

- *Concern*: Large amount of freshwater runoff is harming the local ecosystem and shellfish harvests.
- *Target Audiences*: elected officials and local planning departments (to set up comprehensive plan for development impacts), developers and engineers (designing with Low Impact Development (LID)), HOAs, residents (landscaping choices), schools
- *Messages:* Freshwater as a conveyance for other pollutants, grassroots approach to drive political will, saltwater vs freshwater, impact to local seafood – shellfish and finfish – and the subsequent economic impact to the community
- *Resources and Partners*: Eco-tours, Department of Natural Resources (DNR), Lowcountry Institute, local communities, Experience Green, Savannah River Keeper, native plant nurseries, existing presentations to HOA groups, existing Low Impact Development (LID) presentations, rain barrel giveaways, county credit program, Port Royal Sound Foundation (PRSF)

- *Short-term Goals*: To increase awareness of the effect of freshwater on saltwater ecosystems, increase use of infiltration and retention practices
- *Long-term Goals*: Community-wide acceptance of infiltration and retention practices to curb freshwater intrusion

3. Illegal Littering

- *Concern*: Poorly maintained dumpsters, unsecured trash in vehicles, illegal dumping, and tourist generated trash as well as plastic, tires, grass clippings are contributing marine debris and reducing the quality of local waterways for both wildlife and residents
- *Target Audiences*: Tourists, boating community, motorists, residents, commercial businesses, contractors, schools
- *Messages:* Prevent litter in the first place instead of picking it up
- *Resources and Partners*: Palmetto Pride, Keep Beaufort County Beautiful, National Oceanic and Atmospheric Administration (NOAA) Marine Debris program, Adopt-A-Highway, Department of Transportation (DOT), Beaufort County environmental crime unit and app, Sea Grant Clean Marine program, Port Royal Sound Foundation (PRSF)
- *Short-term Goals*: To increase awareness of proper disposal practices
- *Long-term Goals*: To decrease the amount of litter in local waterways and to receive feedback from residents detailing a reduced amount of illegal dumping and littering in their neighborhoods

4. Bacteria Impact Awareness

- *Concern*: There public needs to be made aware of the multiple sources of bacteria in our watersheds and their impacts on our waterways.
- *Target Audiences*: Pet owners, area residents, commercial businesses, schools
- *Message*: High levels of bacteria within our waterways can be a risk to shellfish beds, awareness of bacteria sources in watersheds
- *Resources and Partners*: Department of Health and Environmental Control (DHEC), National Resources Conservation Service (NRCS), Soil and Water Conservation District (SWCD), University of South Carolina Beaufort (Dr. Warren), Department of Natural Resources (DNR), National Estuarine Research Reserves (NERR), Port Royal Sound Foundation (PRSF)
- *Short-term Goals*: To increase awareness of the sources of bacteria in local watersheds and the impact bacteria has on local waterways
- *Long-term Goals*: Affect practices that contribute to bacterial loading in waterways

5. Septic System Management

- *Concern:* Septic systems that are not properly designed, maintained, or used can become a source of bacteria in local waterways and cause negative environmental and health impacts.
- *Target Audiences:* septic system owners
- *Messages:* identification and responsibility of ownership of septic systems, better management practices for septic systems, improved record keeping of septic system maintenance
- *Resources and Partners:* Installers, Department of Health and Environmental Control (DHEC), National Resources Conservation Service (NRCS), Soil and Water Conservation District (SWCD), University of South Carolina Beaufort (Dr. Warren), Department of Natural Resources (DNR), National Estuarine Research Reserves (NERR), Port Royal Sound Foundation (PRSF)
- *Short-term Goals*: To increase awareness of proper septic system inspection and maintenance

- *Long-term Goals*: Septic system owners reporting knowledge gain and application in regards to awareness, inspection, and maintenance

6. Fertilizer Need, Selection, and Application

- *Concern:* Residents and landscapers applying fertilizer without acquiring a soil test first can apply too much fertilizer, select a fertilizer which doesn't suit their needs (leading to over application), and/or apply fertilizer when the plants will be less able to absorb it, leading to nutrient-rich stormwater runoff
- *Target Audiences:* Homeowners, landscapers, turf industry
- *Messages:* Don't guess- soil test!, apply fertilizer based upon need, soil testing and selecting the appropriate type and amount of fertilizer for the need can save time, money, and protect local waterways, over application of fertilizer can lead to higher levels of nutrients in waterways which can cause oxygen depletion, fish kills, harmful algal blooms, and unsightly conditions.
- *Resources and Partners:* Experience Green, National Resources Conservation Service (NRCS), Soil and Water Conservation District (SWCD), University of South Carolina Beaufort (Dr. Warren), Department of Natural Resources (DNR), National Estuarine Research Reserves (NERR), Port Royal Sound Foundation (PRSF)
- *Short-term Goals*: To increase awareness of soil testing, facilitate following and interpreting soil test results, and proper fertilizer selection and application
- *Long-term Goals*: Demonstrate increase in soil testing awareness, knowledge gain and application of knowledge in regards to fertilizer need, selection, when to fertilize and/or how much fertilizer to use

7. Sediment Related to Construction Site Runoff

- *Concern:* When construction sites do not properly install, use, and/or maintain sediment and erosion control measures, it indicates a lack of understanding of the importance of these measures as well as local compliance and enforcement policies. The sediment leaving these sites can impact the quality of local waterways and shellfish beds.
- *Target Audiences*: Engineers, developers, contractors, sub-contractors
- *Messages:* Sediment and erosion controls are important and necessary parts of an active construction site; their maintenance and combination of practices protects water quality, maintains a site as active and in compliance, and minimizes costly revisits and frequent replacements of BMPs.
- *Resources and Partners:* Soil and Water Conservation District (SWCD), local planning departments, local stormwater inspectors, developers, engineering firms
- *Short-term Goals*: To increase awareness of how to stay in compliance with local construction ordinances, to increase awareness of sediment and erosion control measure function and maintenance
- *Long-term Goals*: Local stormwater divisions reporting a decrease in the number of violations after construction sites receive education

Supporting Information for Addressing Priority POCs

Events and outreach activities for each priority POC have been identified for the region and are listed in the attached spreadsheet. This is a fluid plan, with expectations that modifications will be made along the way as new partners are identified, and opportunities arise to address an audience or provide a workshop, demonstration, presentation, or other activity.

In order for this outreach plan to be effective, an analysis of this behavior or pollutant and related audience has been conducted. This analysis includes the concern as it relates to polluted stormwater runoff, related and involved audience(s), consistent and effective messaging, and also considers motivations for change, interests in a topic, and convenience of receiving that message.

It is recognized that education and assistance to those target audiences evolves and must include systematic changes in how individuals consider their own personal sense of responsibility in pollution and waterway protection; the value of healthy waterways and the relationship to quality of life and community; an operational norm or pressure to change a practice or behavior; the realization of these impacts in water quality and watershed management perspectives. The LSP have chosen to select these priorities recognizing that this work is only beginning. All programs will include some type of assessment or evaluation; an instrumented survey will be used to broadly capture changes in awareness, knowledge, and behaviors that may be the result of stormwater and watershed education and involvement efforts.

Key Educational Messages

Overall larger messages of water resource protection and personal responsibility are currently in development for use towards consistency in outreach materials and events. Overall, the regional consortium seeks to incorporate messages that include a sense of personal responsibility for stormwater pollution and regional water quality as well as the recognition that the quality of local waterways directly impacts the livelihoods, health, and quality of local communities. These messages will be partly based upon previous work with focus groups in the greater Bluffton area, where the theme of personal responsibility for water quality was ubiquitous. Specific messages containing information about local compliance and enforcement mechanisms will also be developed.

The LSP are also considering the creation of a character and costume that can be used by all partners for outreach activities. The intention will be to create a recognizable and approachable steward of local waterways. This initiative will be further discussed at future consortium meetings.

IV. LSP Strategic Participation/Involvement Plan

Opportunities for Public Input

Opportunities for public input are received through community-wide surveys, program evaluations, social media, and other regional communication.

1. Surveys
    - The third iteration of Carolina Clear's Environmental Attitudes, Knowledge, and Perceptions Survey, currently in planning for 2018-2019, will also be made available to Beaufort County residents. This survey will be used to shape outreach activities and measure changes over time.

Many of the questions in Carolina Clear's Environmental Attitudes, Knowledge, and Perceptions Survey are similar to the 2015 Beaufort County survey to allow for comparison and measuring changes that can be related to education and involvement programming as well as to identify successful programs, audiences that could be served by additional programming, and additional target pollutants.

2. Program Evaluation
    - Each program will include a form of evaluation or assessment that will be used to tailor educational programs to best fit the audience's needs and enhance their overall experience.

3. Social media
    - The LSP will continue a Facebook page to be used as a means to receive input from the public. Posts will be made once a week with information about upcoming events and pictures of past events. Social media allows for the public to stay up to date on upcoming events and programs, as well as share their experience on programs where they have participated.

4. Regional Communication
    - The LSP will also provide opportunities for public input through their upcoming website, monthly e-newsletter to interested members of the public, and regular consortium meetings.
    - Beaufort County developed the 311 mobile application where the public can report stormwater issues, illicit discharges, and other concerns throughout the region. The LSP will promote this application through all of their educational efforts.

Education Through Involvement

The LSP seek to educate through involvement, teaching individuals how to prevent pollution through responsible, simple changes in practices, behaviors, and procedures. There are many program efforts that are regional activities, which include:

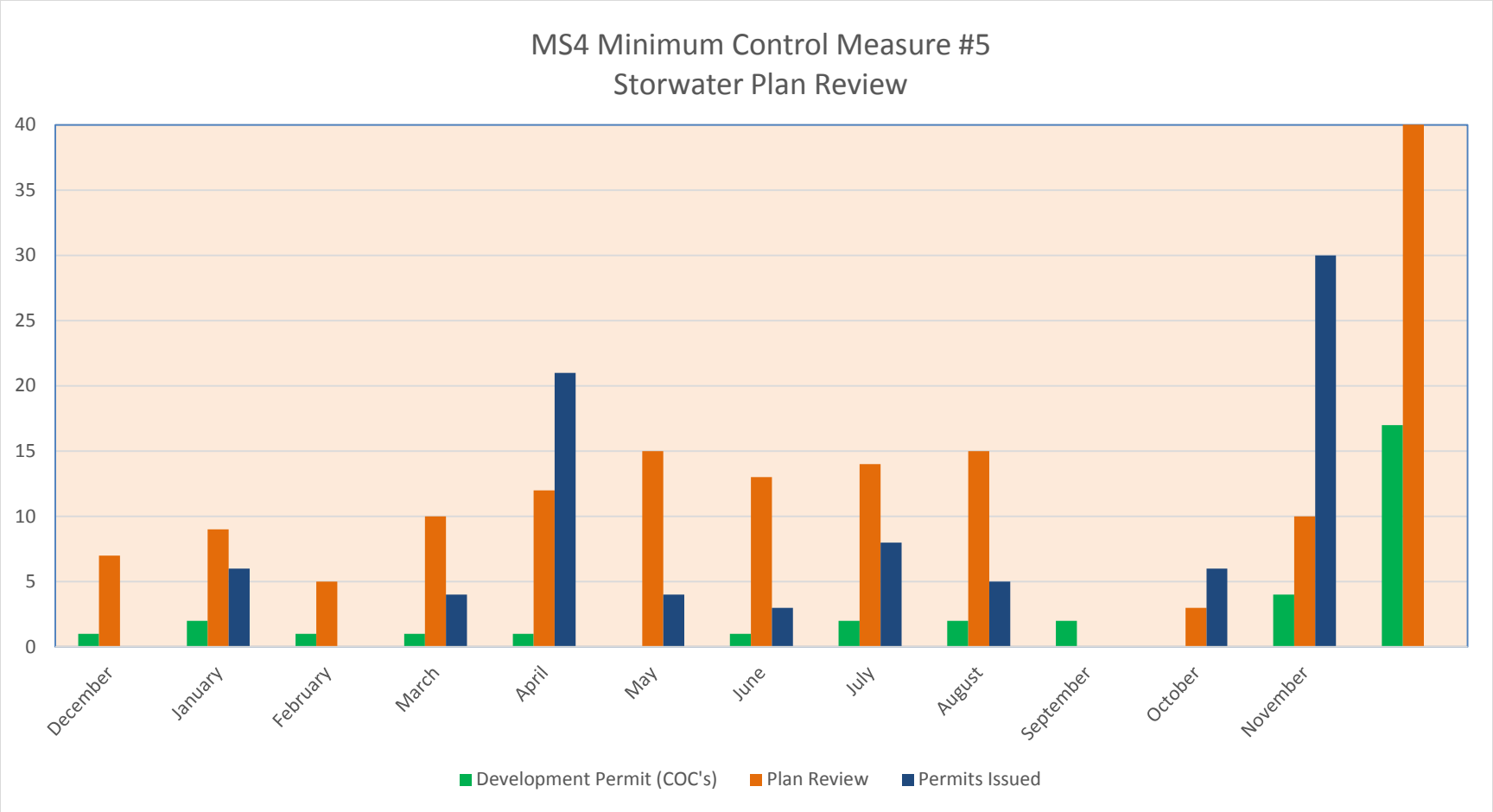
- Publicizing and hosting the post-construction BMP inspector certification course to increase the number of trained professionals conducting post-construction BMP inspections
- Rain garden workshops, where participants install a rain garden at the end of classroom instructions.
- Rain barrel sales with information and demonstrations on installation
- Carolina Yards workshops with opportunities for soil testing and demonstrations
- Storm drain Marking

Activities more targeted to Beaufort County include:

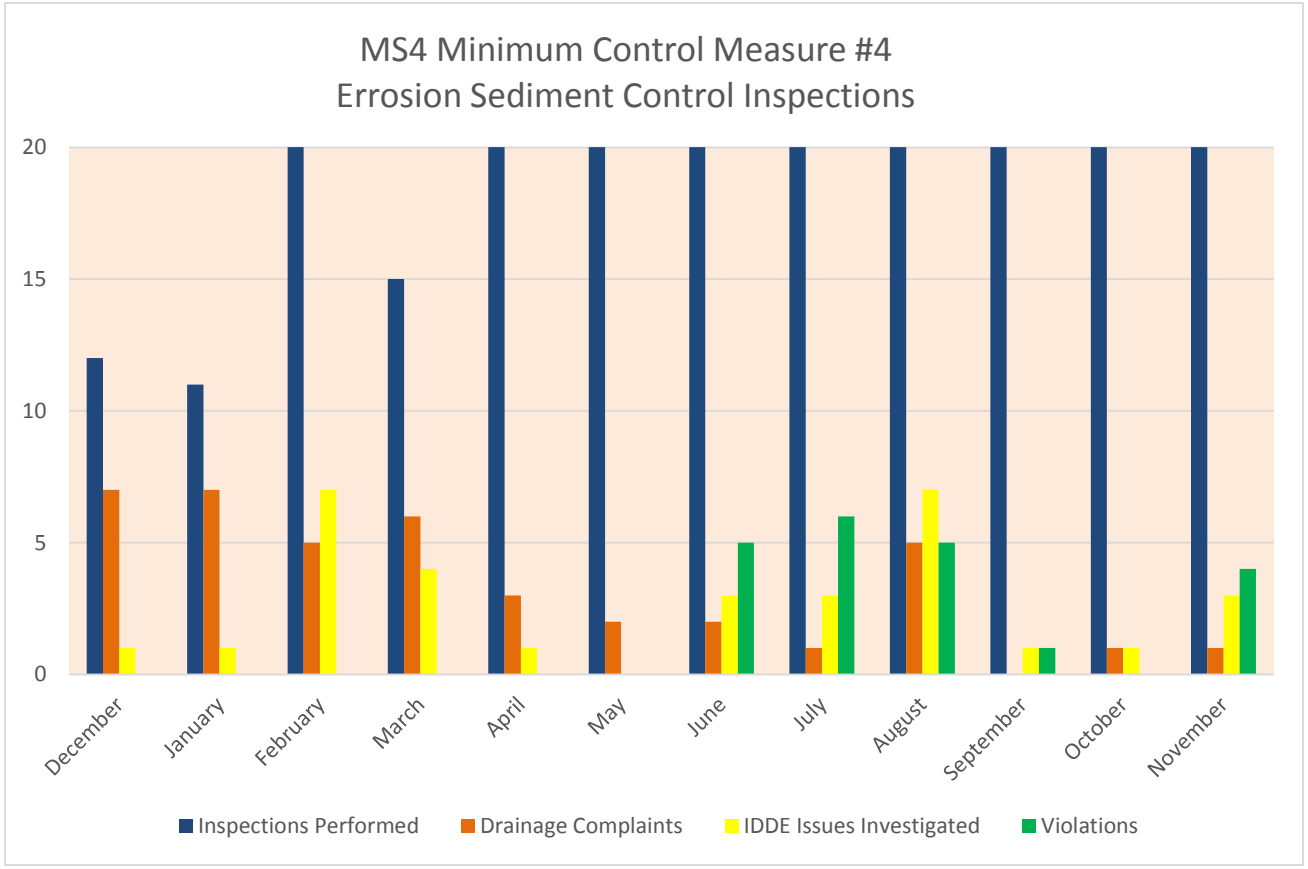
- Shorescaping workshops, where participants install a shorescape at the end of classroom instructions.
- Regional river clean-up and beach sweeps
- Septic Inspection Training, where citizens learn to inspect their own septic tanks.
- Citizen monitoring of local waterways through the promotion of the South Carolina Adopt-A-Stream resources and distribution of kits to local interest groups.

Projects completed through public participation and involvement allow for more demonstration sites in Beaufort County, a more involved public, and a training grounds for professional development, while making meaningful water quality improvements.

Exhibit E



TYPE	December	January	February	March	April	May	June	July	August	September	October	November	FY 2017
Development Permit (COC's)	1	2	1	1	1	0	1	2	2	2	0	4	17
Plan Review	7	9	5	10	12	15	13	14	15	0	3	10	113
Permits Issued	0	6	0	4	21	4	3	8	5	0	6	30	87



TYPE	December	January	February	March	April	May	June	July	August	September	October	November	Year To Date
Inspections Performed	12	11	29	15	32	74	50	84	65	67	73	74	586
Drainage Complaints	7	7	5	6	3	2	2	1	5	0	1	1	40
IDDE Issues Investigated	1	1	7	4	1	0	3	3	7	1	1	3	32
Violations	0	0	0	0	0	0	5	6	5	1	0	4	21

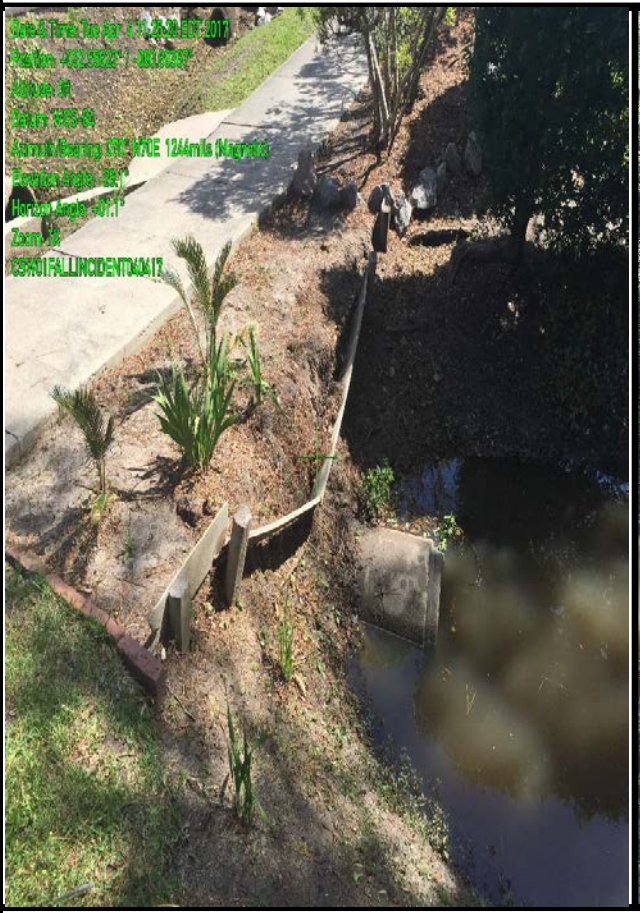
Exhibit F

USCB WATER QUALITY LAB
BEAUFORT COUNTY
First Quarter MS4 Site Monitoring Status
1 May 2017

Authored and Presented by
Danielle Mickel and Michael Monday

CSW01
Kean Neck C/S Crawford Dr.
32.556240 -80.693540

Event Type	Fecal (GM)	E. Coli (GM)
DRY	ND	ND
WET	454.4 MPN	486.4 MPN



SITE ASSESMENT

Tidal Influence: None

Weather Influence: Observed no discharge after ~8 hours of an 0.15" rain event (MCAS 2/16). Observed low-moderate flow ~7 hours after 0.21" reported rainfall (2/28). Dry event sampling, discharge is minimal to none.

Special Considerations:
Discharge measurement appears optimal 7-8 hours after > 0.2 " rain event.

SITE DESCRIPTION:

Site is open channel flow through a 24" concrete pipe located in a residential area of Dale in close proximity of several residential homes. An ephemeral ditch leads from a densely wooded area with heavy overgrowth from the north leading into this site then is discharged behind numerous residential homes to the south.

RECOMMENDATIONS

Site should remain without any significant changes to current sample strategy. Site should be scheduled for collection 7-8 hours after a rain event of > 0.2 inches. Site should be assessed for discharge on each dry event. A discharge measurement should be recorded at the outfall pipe that is greater than 1/3 full.

CSW02
On Kinloch Rd, approx. 0.8 miles north of Wimbee Creek Rd.
32.580180 -80.699481

Event Type	Fecal (GM)	E. Coli (GM)
DRY	ND	ND
WET	132.5 MPN	538.0 MPN

SITE ASSESMENT

Tidal Influence: Yes

Weather Influence: Site is dependent on tidal height and amount of rainfall.

Special Considerations:
Sample collection is optimal during a 3.5 hour period after high tide ebbs. After which time, it is observed, a disconnect btwn pool and outfall drainage occurs. An undetermined amount of precip is needed to flood pool to connect with the outfall drainage. Outfall pipe is obstructed by rip-rap into the pooled area.

SITE DESCRIPTION:

Site is open channel flow through a 24” concrete pipe into a pooled area which connects to drainage that converges with drainage from CSW02A that flows into the main tributary towards Wimbee Creek. The site is located in a sparsely populated area surrounded by maritime forest and marsh. A large area is designated as silviculture and agriculture.

RECOMMENDATIONS

Site sample collection should be scheduled before tides are half ebb. Discharge measurements should be relocated to the east approx. 85 meters. This new discharge measurement site will also accommodate discharge from a proposed add-on site (CSW02A) which converge into this relocated site.

CSW02A (Proposed New)
On Kinloch Rd, approx. 20 meters S of CSW02.
32.579883 -80.699228

Event Type	Fecal (GM)	E. Coli (GM)
DRY	ND	ND
WET	256.0 MPN	232.0 MPN

SITE ASSESMENT

Tidal Influence: Yes

Weather Influence: Site is dependent on tidal height and amount of rainfall.

Special Considerations:
Sample collection is optimal during a 3.5 hour period after high tide ebbs. After which time, it is observed, a disconnect btwn pool and outfall drainage occurs. An undetermined amount of precip is needed to flood pool to connect with the outfall drainage. Outfall pipe is obstructed by rip-rap into the pooled area.

SITE DESCRIPTION:

Site is open channel flow through a 18” concrete pipe into a pooled area which connects to drainage that converges with drainage from CSW02 that flows into the main tributary towards Wimbee Creek. The site is located in a sparsely populated area surrounded by maritime forest and marsh. A large area is designated as silviculture and agriculture.

RECOMMENDATIONS

Site sample collection should be scheduled before tides are half ebb. Discharge measurements should be relocated to the east approx. 95 meters. This new discharge measurement site will also accommodate discharge from CSW02 which converge into this relocated site.

MRG04
Holly Hall Rd, ~65 meters west of Little Caper's Rd
32.444164 -80.627131

Event Type	Fecal (GM)	E. Coli (GM)
DRY	ND	ND
WET	1049.0 MPN	2305.5 MPN

SITE ASSESMENT

Tidal Influence: None

Weather Influence: Observed no discharge ~1 hour after a 0.44" rain event (MCAS 3/14). Discharge flow was observed from a rain event of 1.05" (MCAS 4/4). No discharge has been observed during dry events.

Special Considerations:
Further observations of rain events >0.44" are required to determine when discharge movement occurs.

SITE DESCRIPTION:
Site is open channel flow through a 24" concrete pipe located in a moderately dense residential area of Lady's Island. Site is located in a low lying area off a highly trafficked road and is surrounded by a dense wooded area. Site is located approx. 200 meters NE of Coleman Pond. This site collects the drainage from this 3.5 acre pond and SW discharge from the west along Holly Hall.

RECOMMENDATIONS

Site should remain without any significant changes to current sample strategy. Site should be scheduled for collection after a rain event of ≥ 0.5 inches until it is determined which amount of rainfall necessary for discharge movement to occur.

MRG03
Little Capers Rd, ~ 77 meters NE of Fairfield Rd
32.430800-80.630610

Event Type	Fecal (GM)	E. Coli (GM)
DRY	137.5 MPN	2586.0 MPN
WET	278.5 MPN	776.5 MPN

SITE ASSESMENT

Tidal Influence: Yes; on extreme tide; this site has a higher elevation.

Weather Influence: Observed flow after 0.21" rain event 1 hour prior to low tide. During a dry event, flow was recorded at ¾ ebb tide.

Special Considerations:
Tides greater than half flood will detain any outgoing discharge resulting in erroneous flow measurements.

SITE DESCRIPTION:
Site is open channel flow through a 36" concrete pipe located in a densely populated residential area thru a highly vegetated ephemeral ditch that leads directly into Capers Crk.

RECOMMENDATIONS

Site should remain without any significant changes to current sample strategy. Site should be scheduled for collection prior to half flood tide on either event; dry or wet events.

BATT04
Old Jericho Rd ~0.25 miles S of Old Salem Rd off from bridge
32.424450 -80.725150

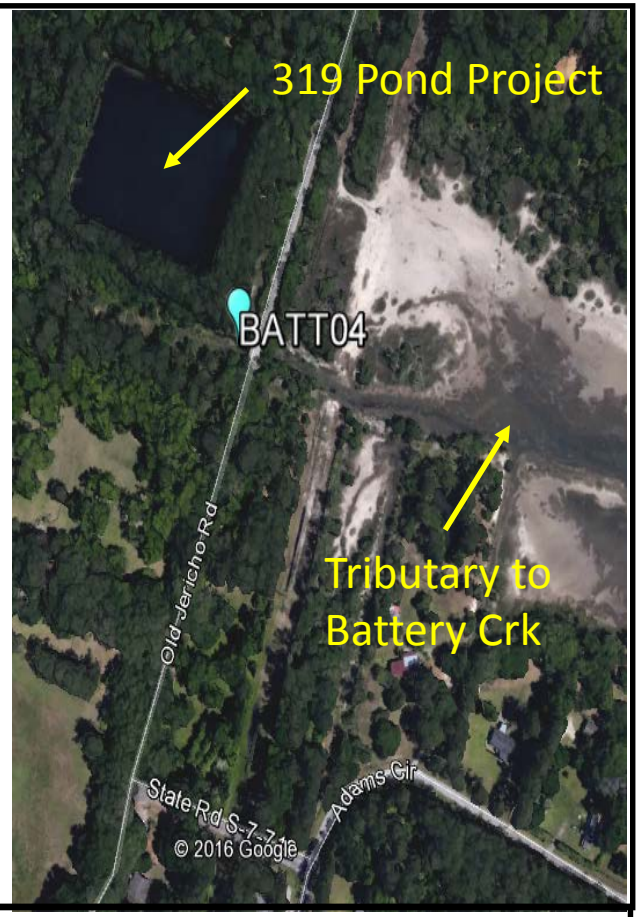
Event Type	Fecal (GM)	E. Coli (GM)
DRY	20.5 MPN	37.5 MPN
WET	352.8 MPN	539.9 MPN

SITE ASSESMENT

Tidal Influence: Yes

Weather Influence: Flow appears continual even during dry conditions.

Special Considerations: Continual outfall flow allows flow measurements, however, incoming tide will create eddy's on peripheral edges of channel resulting in erroneous flow measurements.



SITE DESCRIPTION:

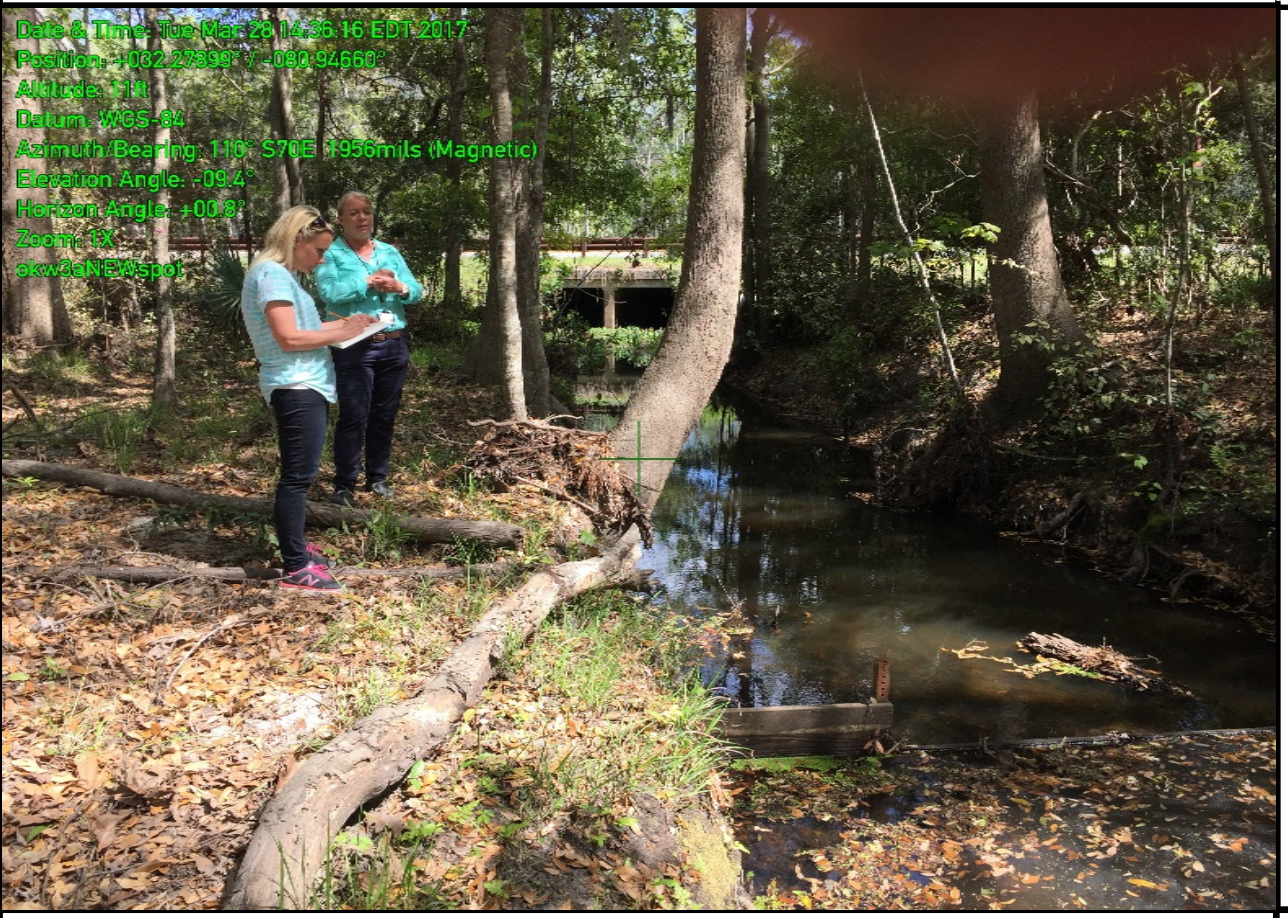
Site is an open channel flow through a ephemeral ditch into the head waters of Battery Creek. Site is highly trafficked with 3 storm water input sources from the north, west and south. There is a moderate cluster of residential homes nearby to the south. There is a continual outfall discharge toward open waters during most normal tidal ranges. Cut-bank erosion is evident. Site is thick with woody over-growth and has current development in close proximity.

RECOMMENDATIONS

Site should remain without any significant changes to current sample strategy.

OKW3A (REPLACE OKW3 SITE)
Hwy 170 (Bluffton Prkwy) near Okatie Maint. Yard
32.278760 -80.945870

Event Type	Fecal (GM)	E. Coli (GM)
DRY	ND	ND
WET	1123.5 MPN	1627.5 MPN



SITE ASSESMENT

Tidal Influence: None

Weather Influence: Flow appears continual even during dry conditions.

Special Considerations: During heavy rainfall events, flow depths may be greater than hand-held flow tracker can record data.

SITE DESCRIPTION:

Site is an open channel flow from a SW detention pond that flows eastward thru a heavy wooded wetland area surrounded by a densely populated development. There is a continual outfall discharge across Hwy 170 into wetland areas further eastward. Cut-bank erosion is evident.

RECOMMENDATIONS

Site should remain without any significant changes to current sample strategy. Site can be collected after any qualifying rain event provided Flow Tracker can accurately measure flow. Suggest BC install an IQ flow-type meter.

MRW02
Cahill Market 1055 May River Rd.
32.240785 -80.885964

Event Type	Fecal (GM)	E. Coli (GM)
DRY	2737.5 MPN	3244.0 MPN
WET	556.0 MPN	710.5 MPN

SITE ASSESMENT

Tidal Influence: No; unless extreme high tide may detain outfall flow.

Weather Influence: Flow appears continual even during dry conditions other than extreme high tide.

Special Considerations: Extreme high tide in the May River may detain outfall discharge.

SITE DESCRIPTION:

Site is an open channel flow from an upstream wetland area with commercial and residential development that flows toward the May River. Site is located on Cahill farm near a chicken coup and the restaurant/market. This site is highly vegetated with a continual low flow.

RECOMMENDATIONS

Site should remain without any significant changes to current sample strategy. Site can be collected after any qualifying rain event. Discharge data should be recorded on normal tidal ranges.

NRW01
South on Hwy 46 at boat landing on New River
32.236193 -81.013512

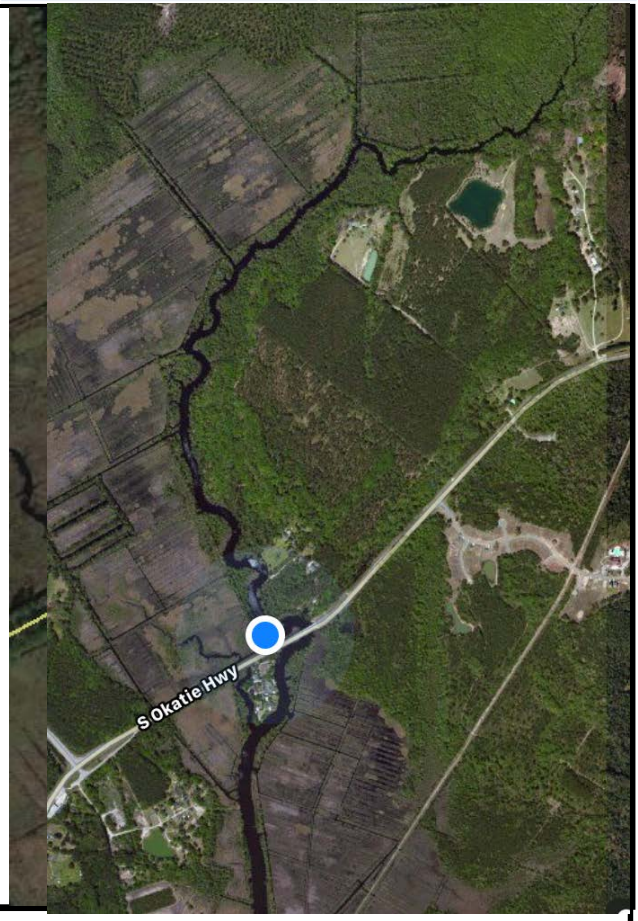
Event Type	Fecal (GM)	E. Coli (GM)	Enterococcus (GM)
DRY	611.5 MPN	750.0 MPN	2014.0 MPN
WET	290.8 MPN	593.0 MPN	710.5 MPN

SITE ASSESMENT

Tidal Influence: Yes

Weather Influence: None known at this time. Further assessment is necessary when discharge measurements can be obtained.

Special Considerations: Discharge measurements are not conducive at this locations. Site does not support an even and uniform flow pattern. An abundant amount of sub-tidal debris exists. Flow of river is very turbulent with numerous eddies preventing accurate discharge measurements.



SITE DESCRIPTION:

Site is an open channel flow in a marine estuary system and is classified as state waters surrounded by moderate vegetation. Site is located at the boat landing near Hwy 46 bridge and has a high traffic volume. Site has low density population with some land disturbance due to on-going development. with. Cut bank erosion with sub-tidal debris and timber present.

RECOMMENDATIONS

Site should remain without any significant changes to current sample strategy with the exception of implementing discharge equipment conducive to measuring discharge in this environment. Alternative equipment and locations were discussed between TOB, USCB lab and BC.

CBS01
On Moss Creek Dr., approx. 120 meters NW of Stable Gate Rd
32.241518 -80.811203

Event Type	Fecal (GM)	E. Coli (GM)
DRY	ND	ND
WET	1244.5 MPN	480.0 MPN

SITE ASSESMENT

Tidal Influence: Yes

Weather Influence: Not known at this time. Further assessment is necessary.

Special Considerations: At lower ebb tide range, discharge measurement may be necessary in the open channel not from the pipe.

SITE DESCRIPTION:

Site is open channel flow through a 48” PVC corrugated pipe from a storm water detention pond that discharges into a tributary leading into Moss Creek. Site is surrounded by densely populated residential development with numerous golf courses and detention ponds. Site appears to have continuous outfall discharge.

RECOMMENDATIONS

Site should remain without any significant changes to current sample strategy. Further site assessment is necessary to determine minimum amount of rainfall necessary to record discharge measurements in relationship to tidal ranges. Suggest BC re-evaluate distance between site locations to meet required analytical hold times.

First and Second Quarter Sampling Summary
1st Qtr. 21 Dec 2016 – 20 Mar 2017
2sd Qtr. 21 Mar 2017 - Present

SITE	1st QRT		2nd QRT	
	WET	DRY	WET	DRY
CSW01	S/F	NS/NF	S/ND	
CSW02	NS/ND/IC	NS/ND/IC	S/ND	
CSW02A	NA	NA	S/ND	
MRG04	NS/NF	NS/NF	S/F	
MRG03	NS/ND/IC	S/F	S/F	
BATT04	S/F	S/F	S/ND/IQ	
OKW3	S/F	S/F	NA	
OKW3A	NA	NA	S/ND/IQ	
MRW02	NS/ND/IC	S/F	S/ND snk	
NRW01	S/ND	S/ND	S/ND/IQ	
CBS01	NS/ND/IC	NS/ND/IC	S/ND/IQ	

Sites	1st QRT Summary		2nd QRT Summary	
Collected Analyzed	4	5	NA	NA
Recored Flow	3	4	NA	NA
Collection Deficit	5	4	NA	NA
Discharge Deficit	6	5	NA	NA
Adjusted Deficit	2	2	NA	NA

1st Quarter Deficit Justification	
WET	DRY
	Dry site or stagnant water (Prior to Eric change)
Tide/Anal constraints; No makeup; no qual rain event	Tide/Anal constraints; No makeup; no qual rain event
Amt precip not sufficient for flow	Dry site or stagnant water (Prior to Eric change)
Incoming tide caused erroroneous flow data	
Extreme tide height held back flow	
Unable to record flow w/Flow Tracker (BC IQ meter)	Unable to record flow w/Flow Tracker (BC IQ meter)
Tide/Anal constraints; No makeup; no qual rain event	Tide/Anal constraints; No makeup; no qual rain event

OVERALL RECOMMENDATIONS:

1. Implement an additional monitoring site CSW02A; Retrieve discharge measurements further downstream toward Wimbee Creek.

2. Increase the minimum rainfall criteria to greater than 0.20 inches; based off from observations at CSW01, CSW02, MRG03 and MRG04.

3. County acquire and install Flow Tracker IQ discharge data sondes at NRW01 and OKW3A.

Battery Creek Section 319 Grant Efficacy Project

2 Sample Site Locations:

- Batt01
- Batt02

Normal State:

- Batt02 has abundant amount of debris.
- Catch Basin water level very low.
- Discharge is minimal to stagnated.
- Location of discharge entry point into pond is undetermined.

- Main Pond water level varies with storm water input. Waterfowl are present on most occasions. A concrete pipe is located on the NW corner that has occasional discharges.

- Batt01 water level inside catch basin is low with observed continual outfall discharge thru a 24” concrete pipe into an ephemeral ditch. Discharge is obstructed preventing accurate measurements.

Battery Creek Section 319 Grant Efficacy Project

Rainfall Conditions:
4/5/2017 Rain Event with 1.05”

- Batt02 has a breech condition over rip-rap into ephemeral ditch that has a direct discharge eastward into Battery Creek (thru Batt04).
- Massive amount of debris around Catch Basin indicates water levels exceeded containment.
- Between both site locations, extreme flooding was evident with sheet flow conditions present at time of sampling.

- Main Pond water level was extremely high with evidence that it had also breeched the rip-rap at the south end.

- Batt01 catch basin submerged (no boat to access).

- Under all conditions discharge measurements are unobtainable at both sample sites.

Graphical Longitudinal Analysis of DHEC Shellfish Monitoring Stations 18-01, 18-02, 18-07, 18-08, 18-16 and 18-17

D. Alan Warren, Danielle Mickel and Mike Monday
USCB Water Quality Laboratory
December 6, 2017

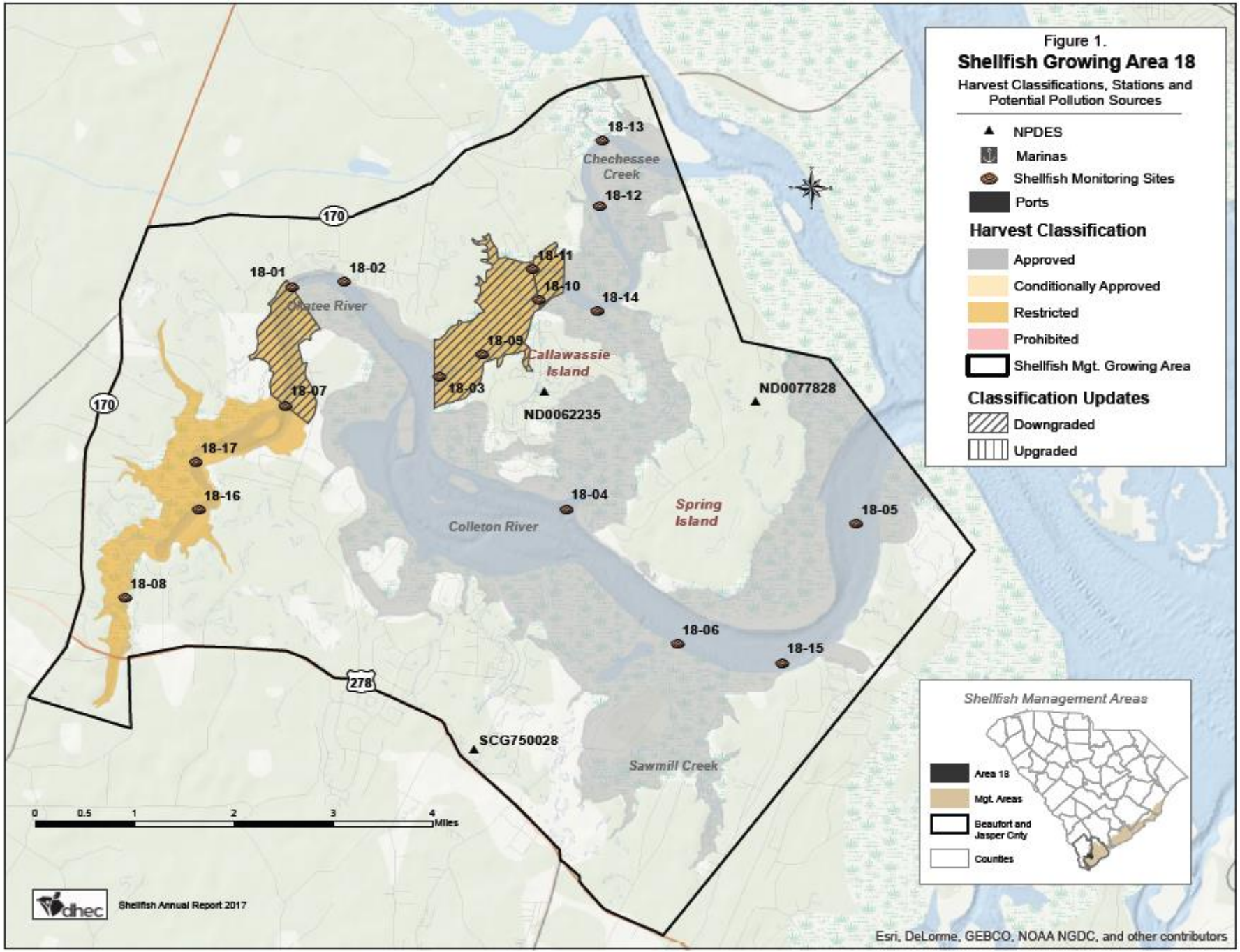
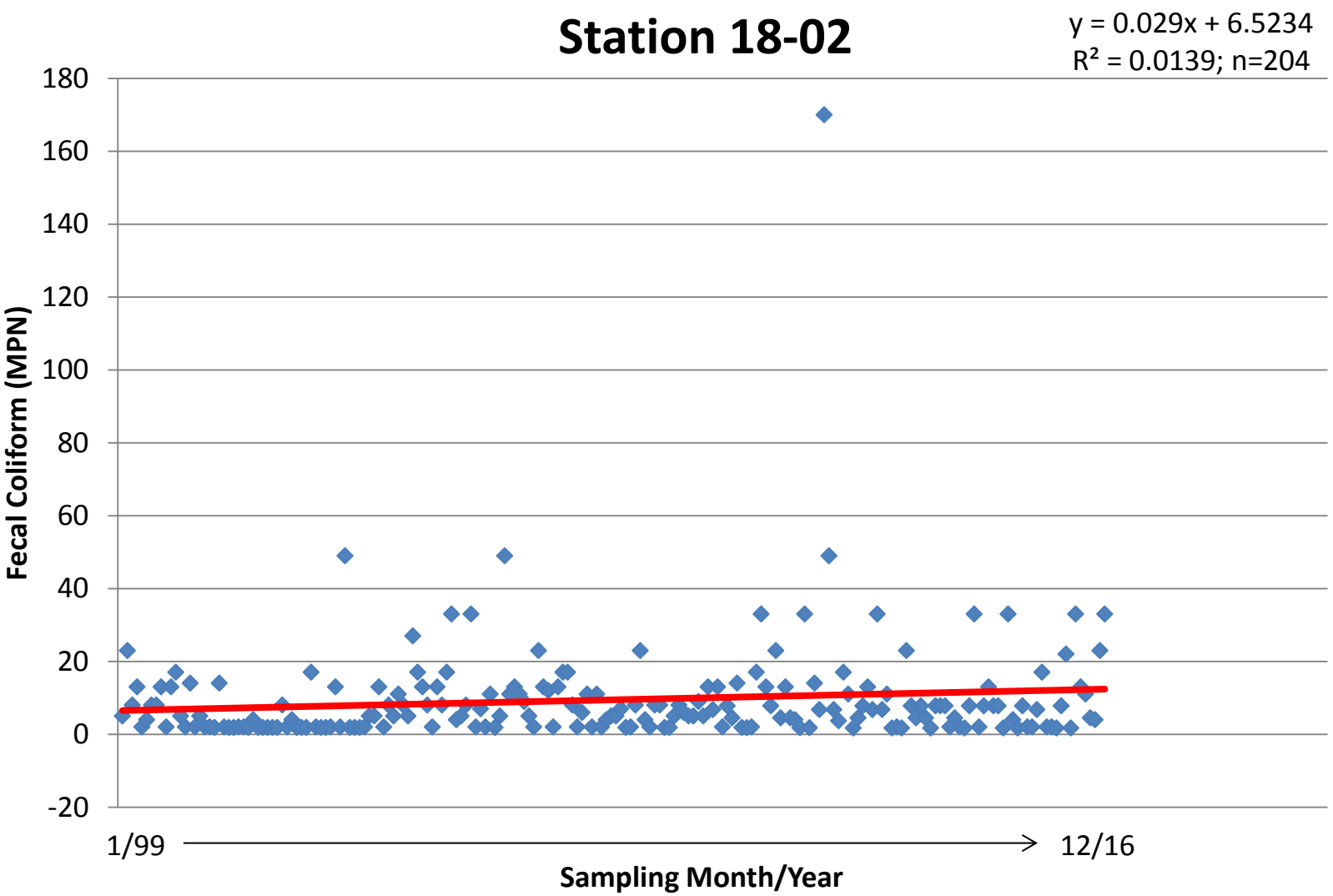
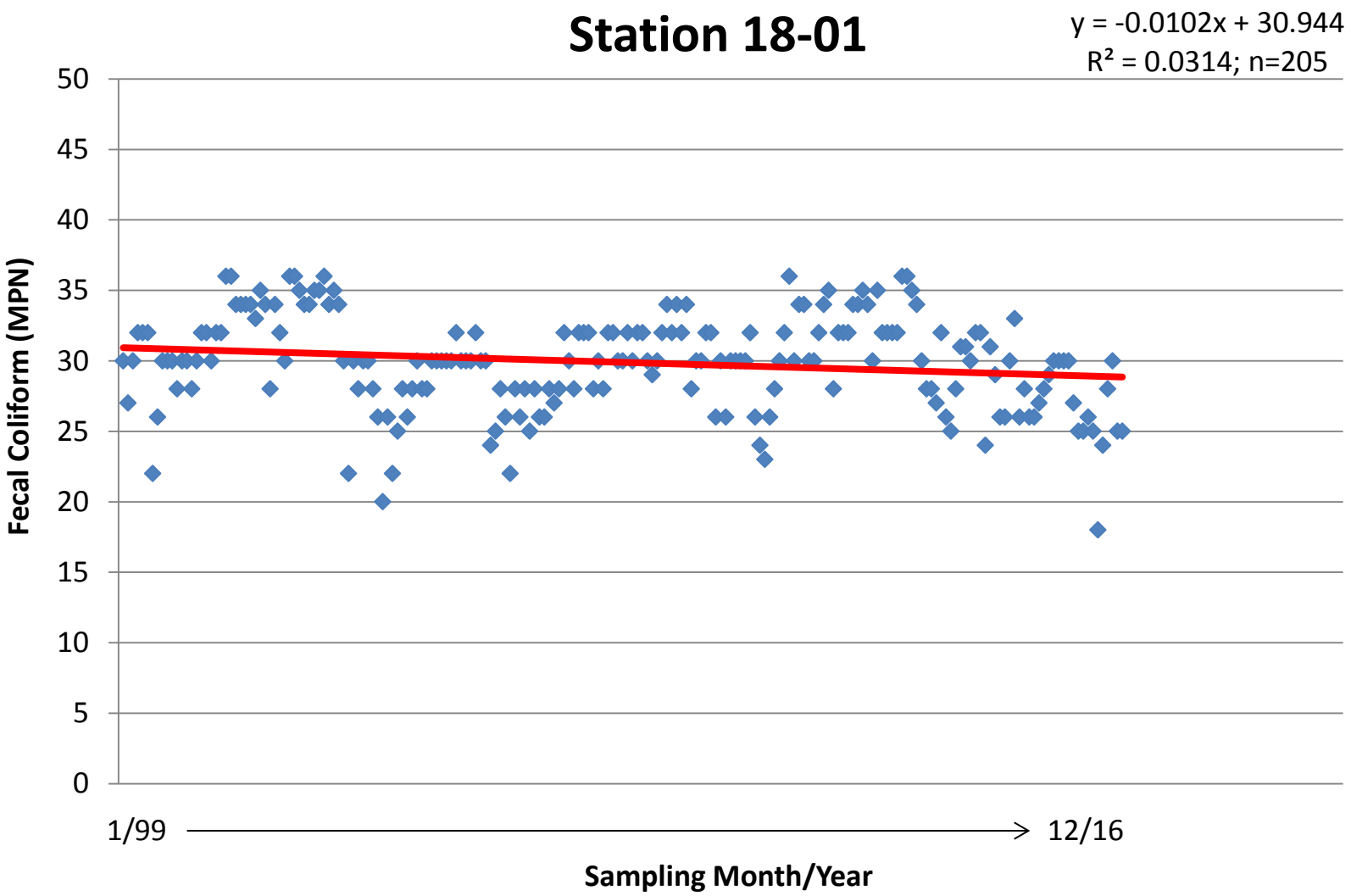


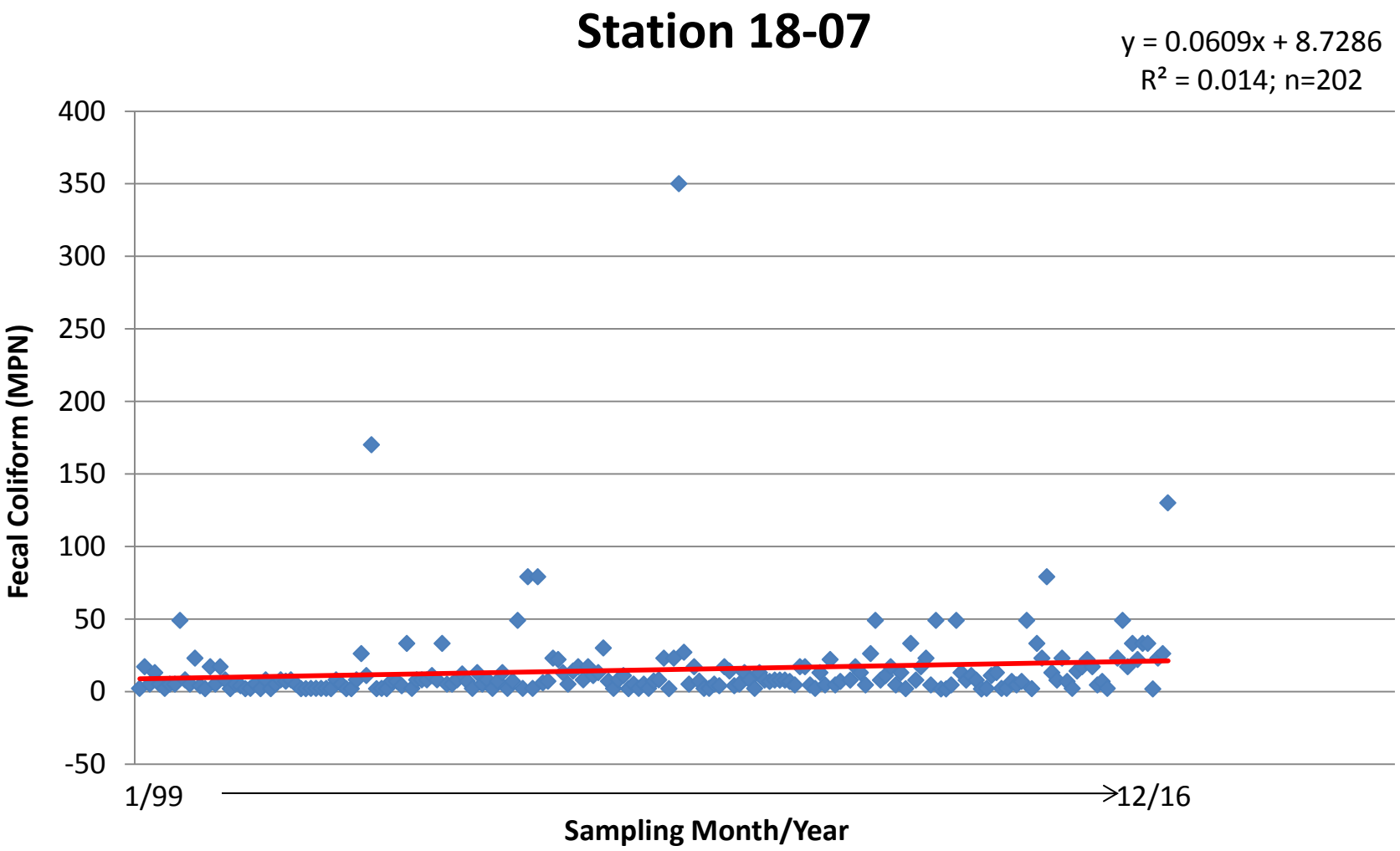
Figure 1.
Shellfish Growing Area 18
Harvest Classifications, Stations and Potential Pollution Sources
NPDES
Marinas
Shellfish Monitoring Sites
Ports
Harvest Classification
Approved
Conditionally Approved
Restricted
Prohibited
Shellfish Mgt. Growing Area
Classification Updates
Downgraded
Upgraded
18-13
Chechessee Creek
18-12
18-11
18-10
18-14
18-01
18-02
Okatee River
18-09
Callawassie Island
18-03
18-07
ND0062235
ND0077828
18-17
18-16
18-04
Spring Island
Colleton River
18-05
18-08
18-06
18-15
SCG750028
Sawmill Creek
170
278
0 0.5 1 2 3 4 Miles
Shellfish Annual Report 2017
Shellfish Management Areas
Area 18
Mgt. Areas
Beaufort and Jasper Cnty
Counties
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors

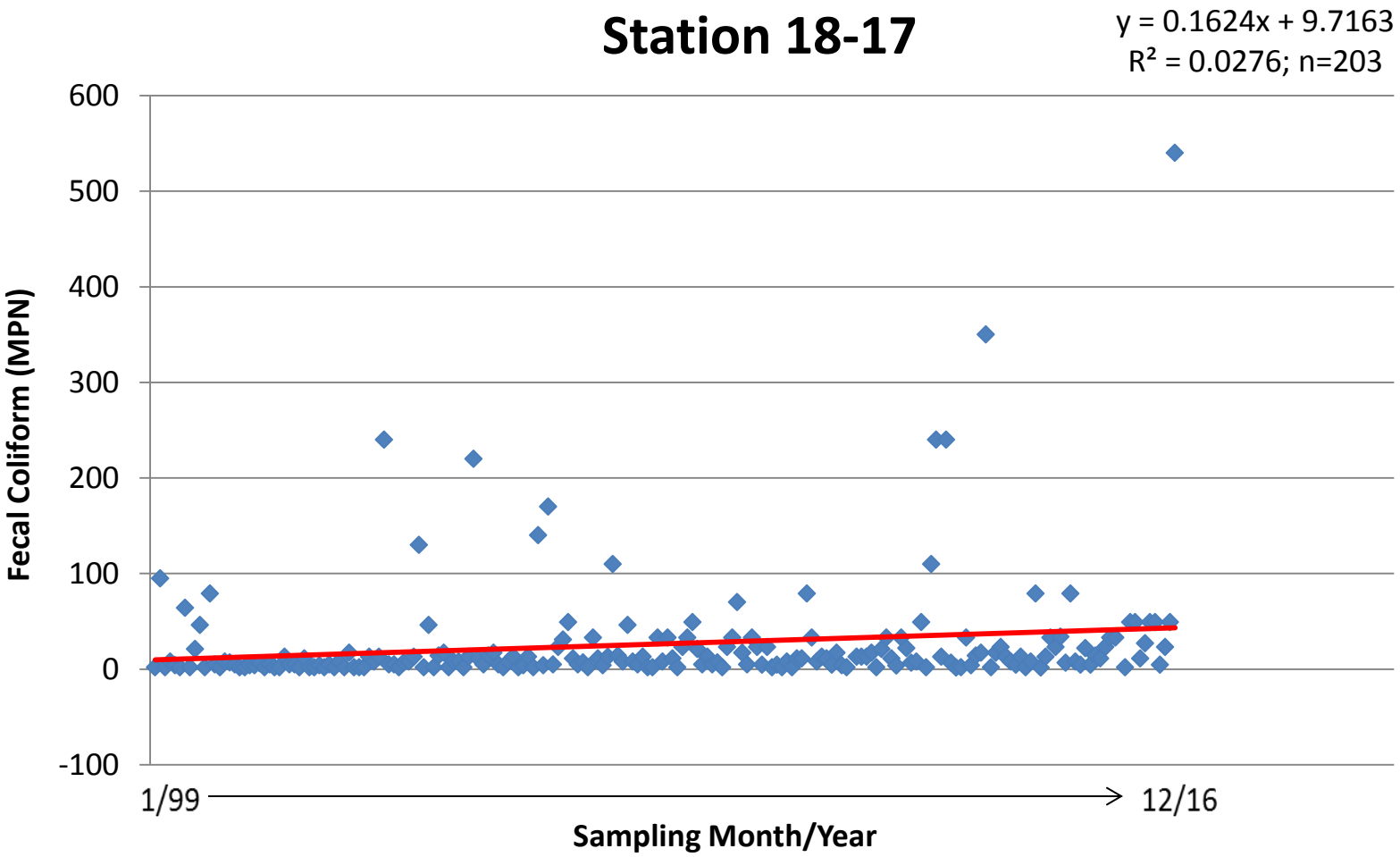
Monitoring Station Descriptions

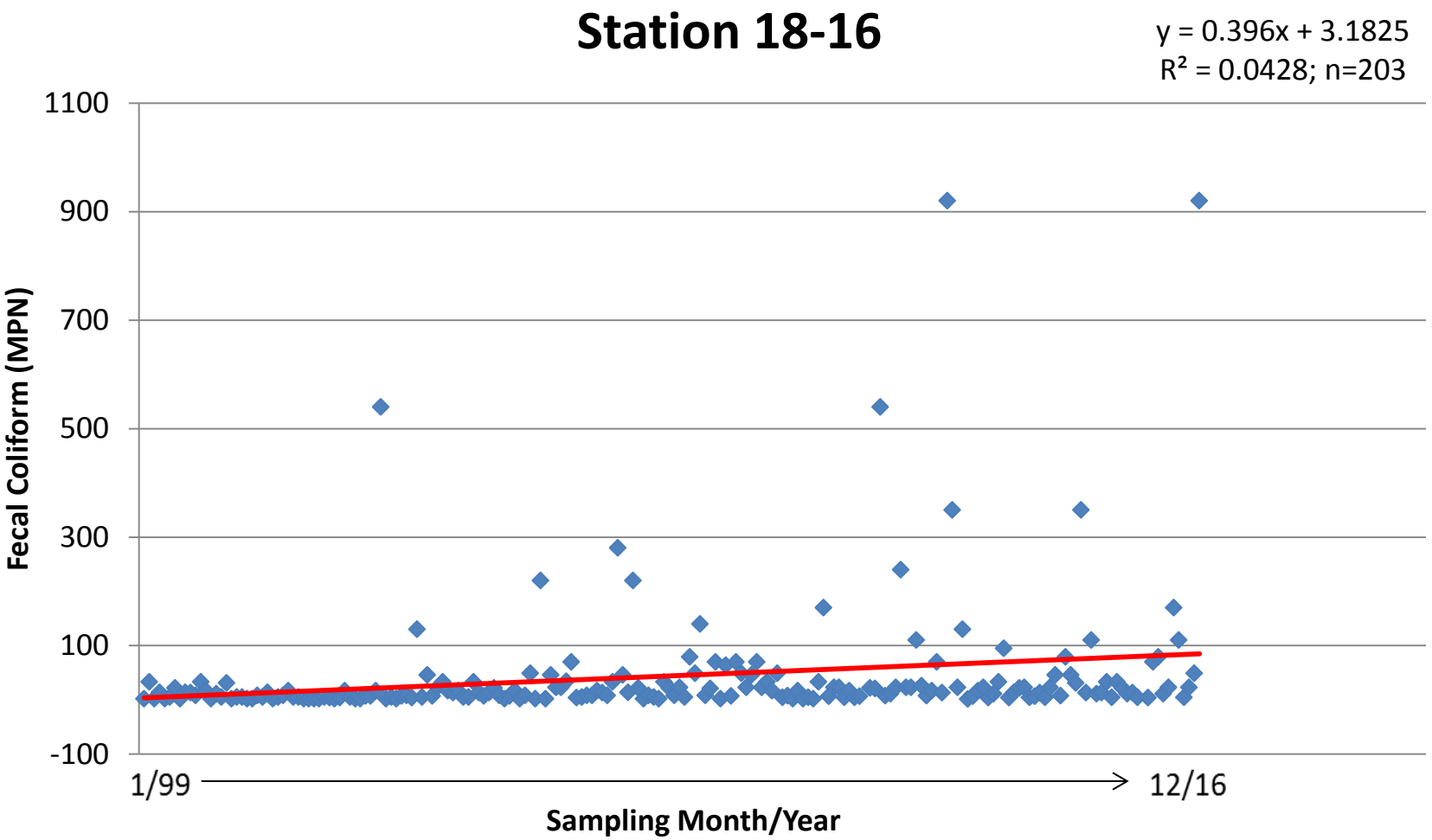
Station	Description
18-02	Okatie River Behind Bailey's Oyster Dock
18-01	Okatie River at Camp St. Mary's Dock
18-07	Okatie River at Indigo Plantation
18-17	Okatie River at Confluence of Cherry Point Tributary
18-16	Okatie River at Confluence of Pickney Colony Tributary
18-08	Okatie River at Dock without House

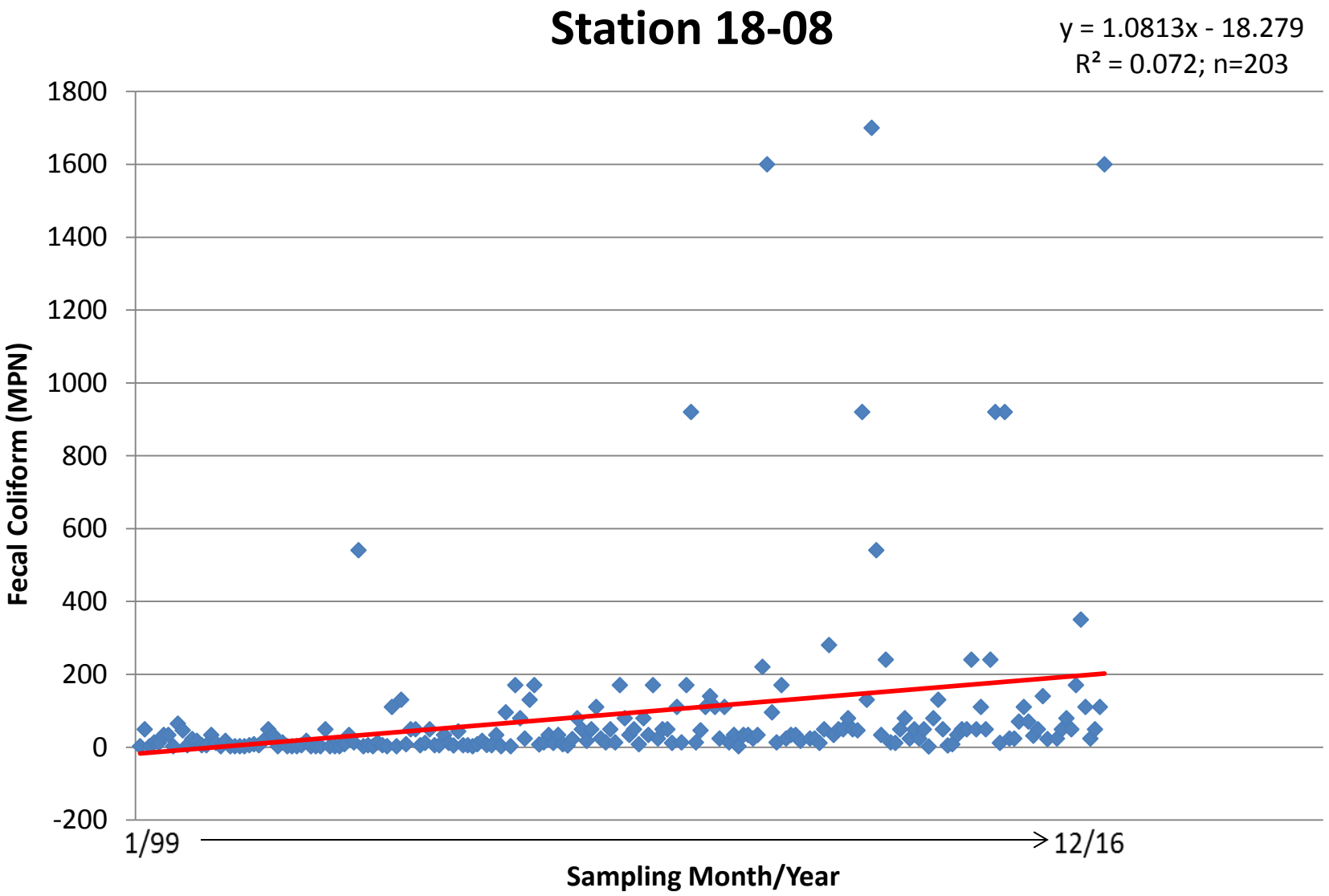

Station 18-02
y = 0.029x + 6.5234
R² = 0.0139; n=204
180
160
140
120
100
80
60
40
20
0
-20
Fecal Coliform (MPN)
1/99
12/16
Sampling Month/Year


Station 18-01
y = -0.0102x + 30.944
R² = 0.0314; n=205
Fecal Coliform (MPN)
50
45
40
35
30
25
20
15
10
5
0
1/99
12/16
Sampling Month/Year


Station 18-07
y = 0.0609x + 8.7286
R² = 0.014; n=202
400
350
300
250
200
150
100
50
0
-50
Fecal Coliform (MPN)
1/99
12/16
Sampling Month/Year


Station 18-17
y = 0.1624x + 9.7163
R² = 0.0276; n=203
600
500
400
300
200
100
0
-100
Fecal Coliform (MPN)
1/99
12/16
Sampling Month/Year


Station 18-16
y = 0.396x + 3.1825
R² = 0.0428; n=203
1100
900
700
500
300
100
-100
Fecal Coliform (MPN)
1/99
12/16
Sampling Month/Year


Station 18-08
y = 1.0813x - 18.279
R² = 0.072; n=203
1800
1600
1400
1200
1000
800
600
400
200
0
-200
Fecal Coliform (MPN)
1/99
12/16
Sampling Month/Year

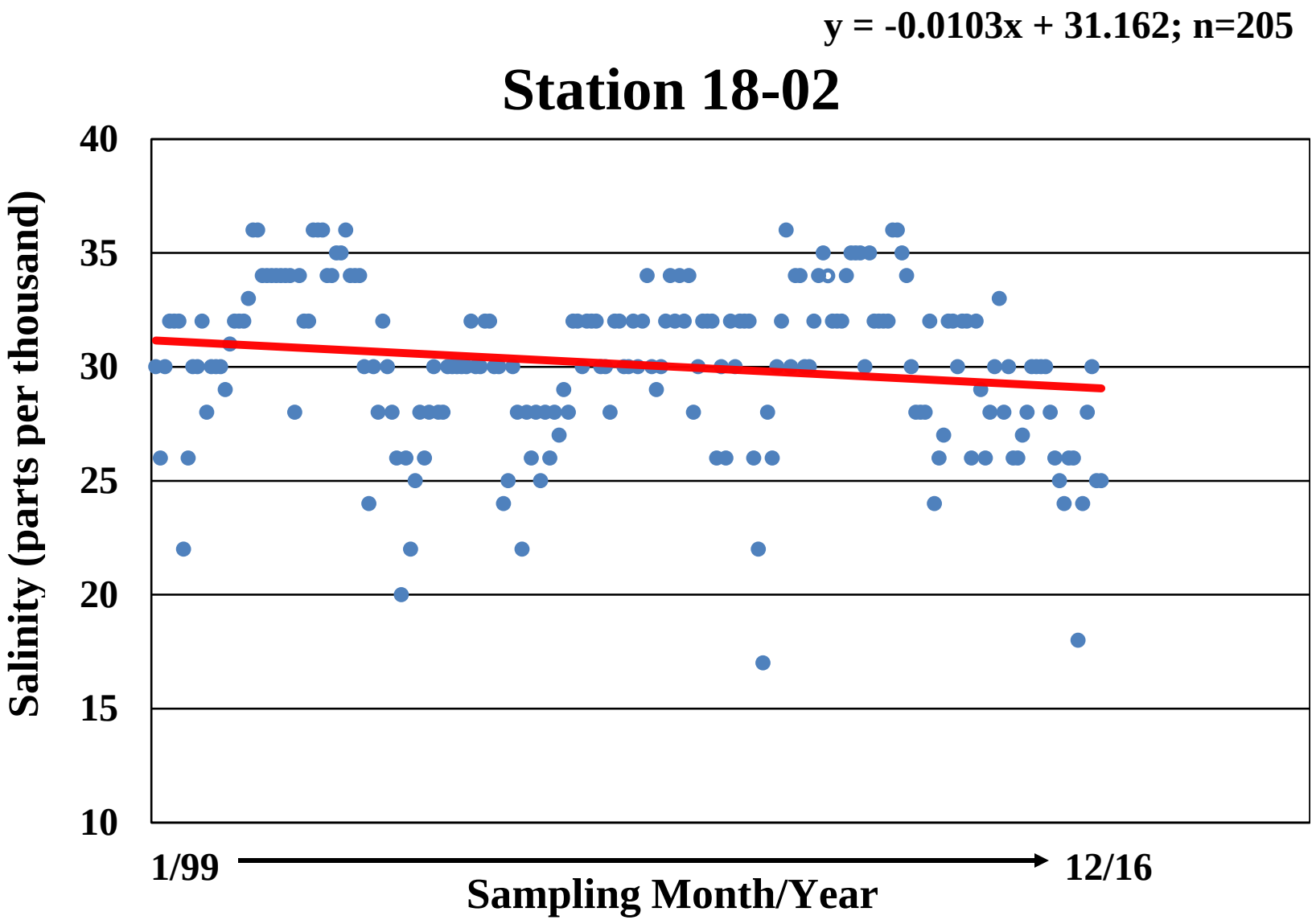
Trendline Slopes and Summary

Station	Trendline Slope
18-02	+ 0.029
18-01	- 0.0102
18-07	+ 0.0609
18-17	+ 0.1624
18-16	+ 0.396
18-08	+ 1.0813

Summary: Based on linear trendlines of positive slope that were fitted to DHEC water quality data, five of the six monitoring stations saw increasing trends in fecal coliform concentration during the period 1/99 to 12/16. Of those stations showing trends of increasing concentration, the rate of increase was greatest at station 18-08, occurring at a rate 2.7- and 6.7- fold that of stations 18-16 and 18-17, respectively. Considerably more modest rates of increase were seen at stations 18-02 and 18-07, while a slightly decreasing concentration trend was observed at station 18-01. In general, the rate of increase in fecal coliform concentration is, at least in part, a function of where a particular monitoring station is located relative to the headwaters of the Okatie River (i.e., the rate of increase became greater as one moved further up river). In addition, the same pattern emerges when one examines the average concentration of fecal coliform bacteria at each monitoring station over the period from 1/99 to 12/16 (i.e., average fecal coliform concentrations were 9.5, 29.9, 15.0, 26.4, 43.9 and 91.9 MPN at monitoring stations 18-02, 18-01, 18-07, 18-17, 18-16 and 18-08, respectively).

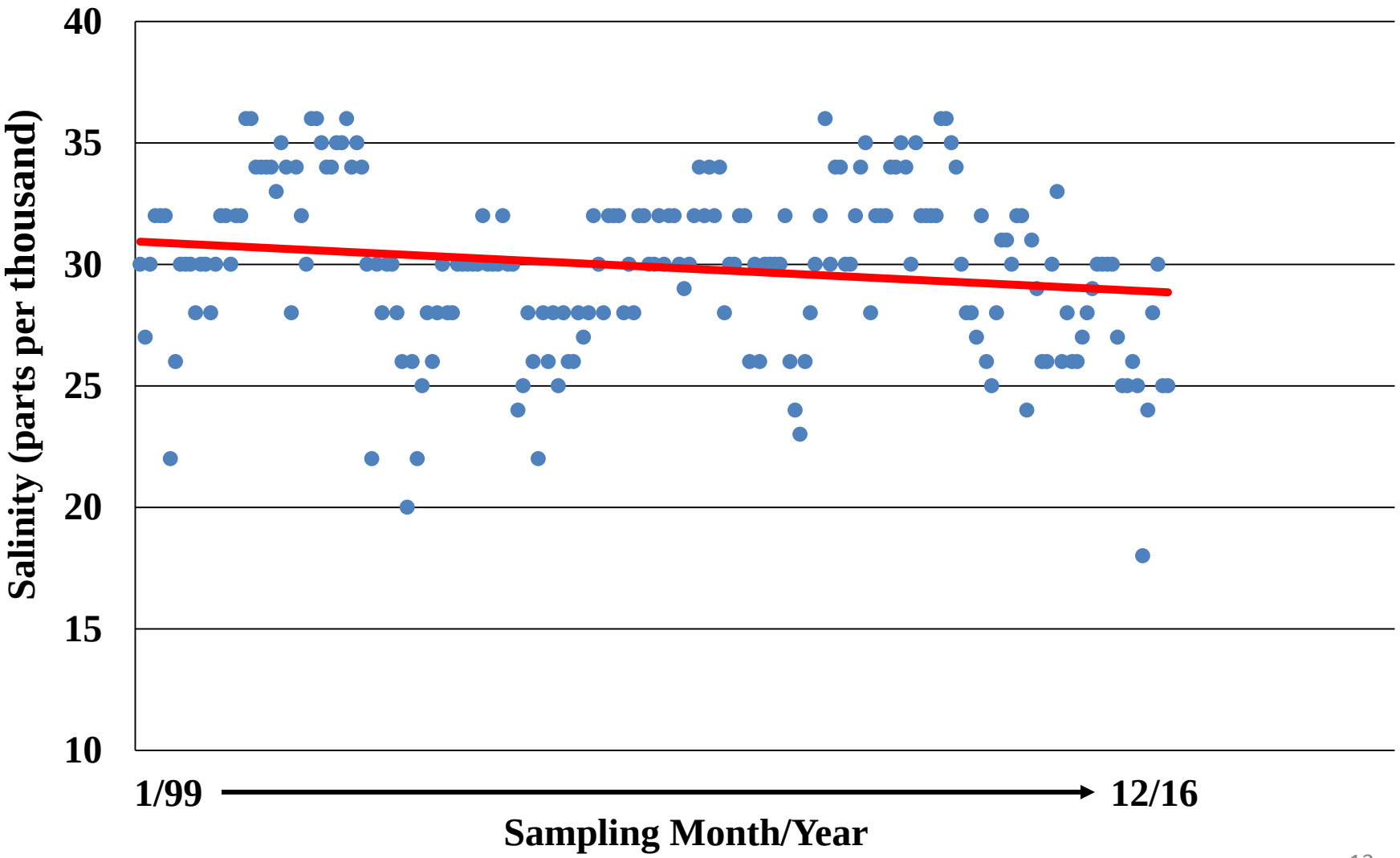
Salinity vs. Time at DHEC Shellfish Monitoring Stations 18-01, 18-02, 18-07, 18-08, 18-16 and 18-17

D. Alan Warren, Danielle Mickel and Mike Monday
USCB Water Quality Laboratory
December 6, 2017


y = -0.0103x + 31.162; n=205
Station 18-02
Salinity (parts per thousand)
40
35
30
25
20
15
10
1/99
12/16
Sampling Month/Year

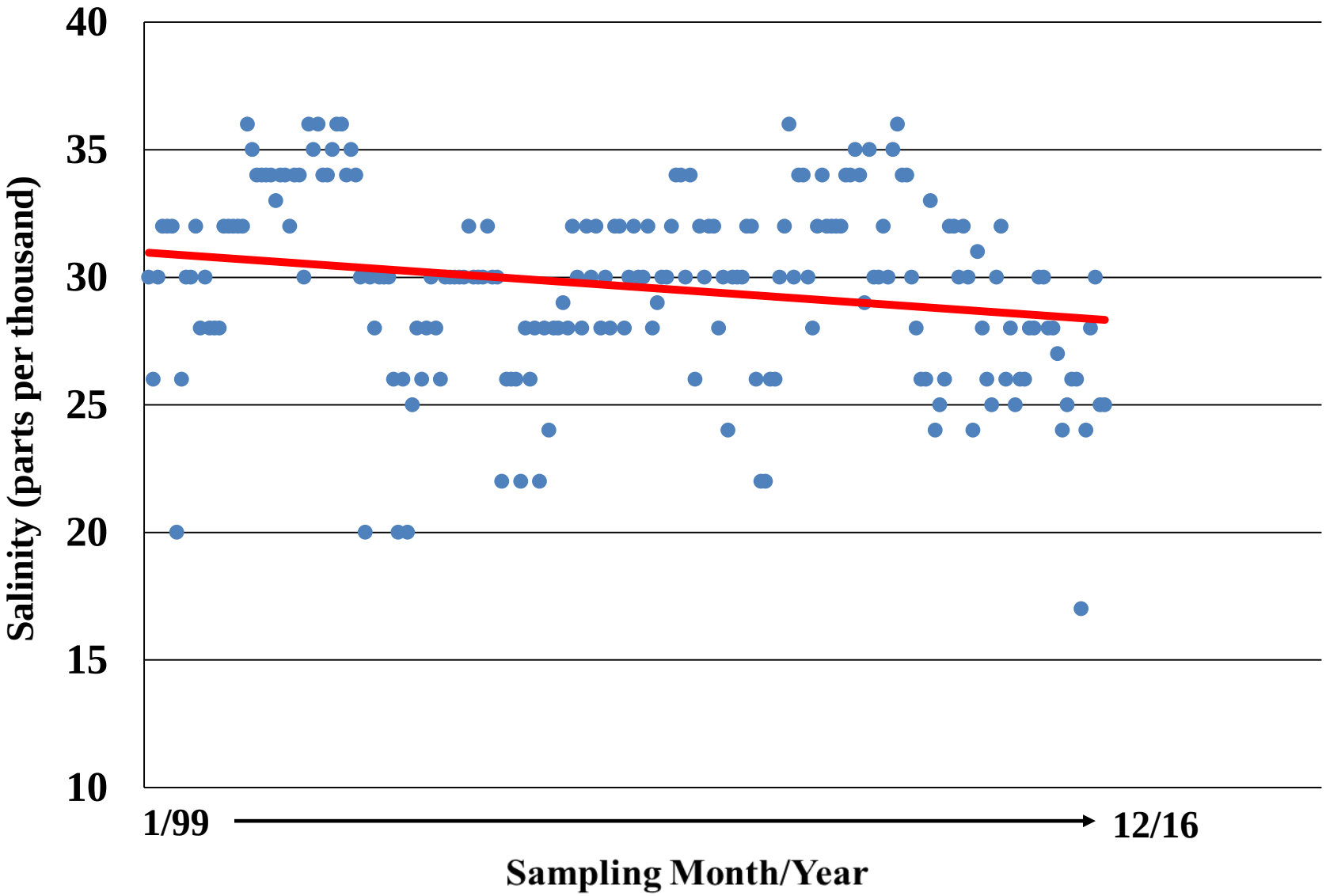
y = -0.0102x + 30.944; n=205

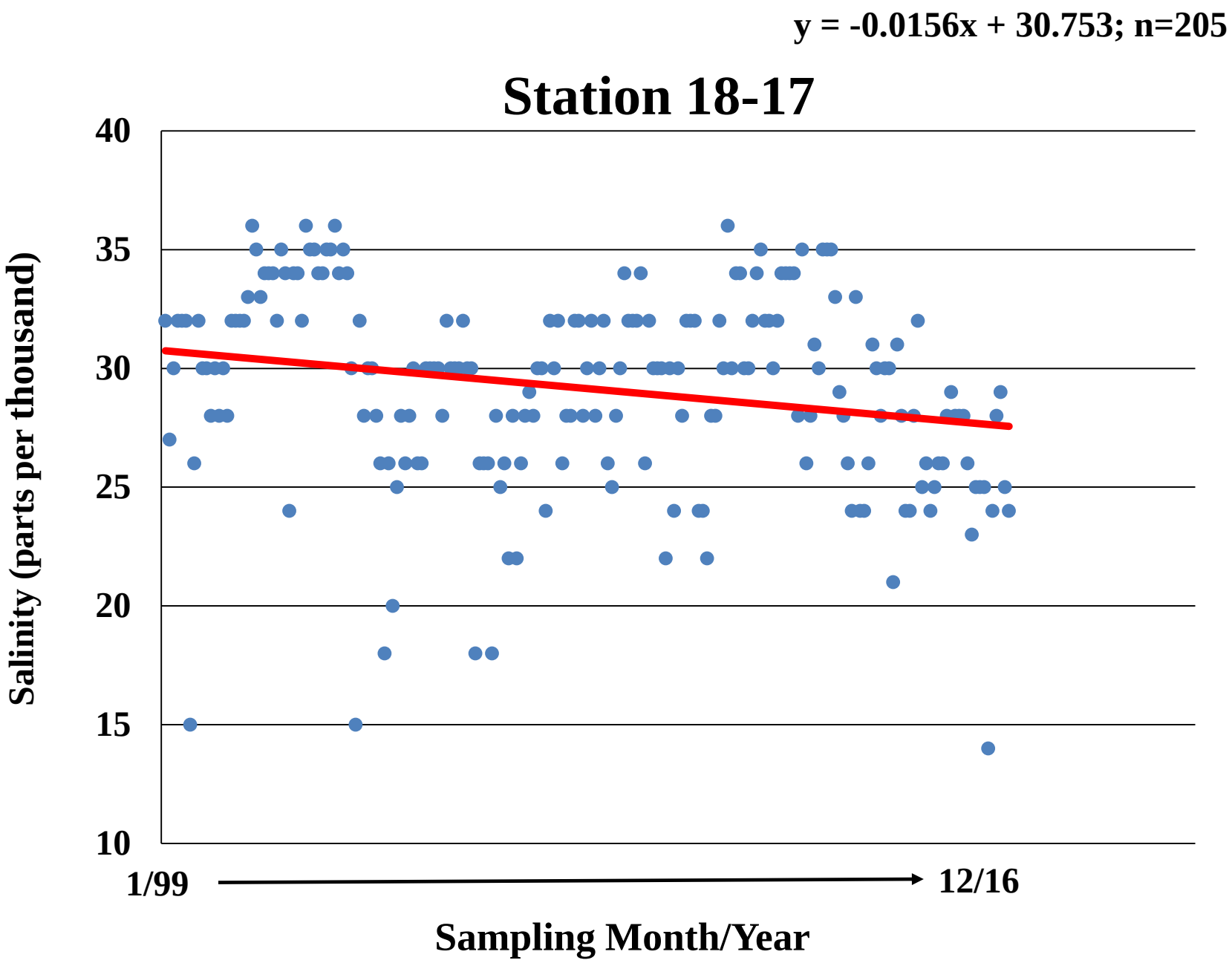
Station 18-01

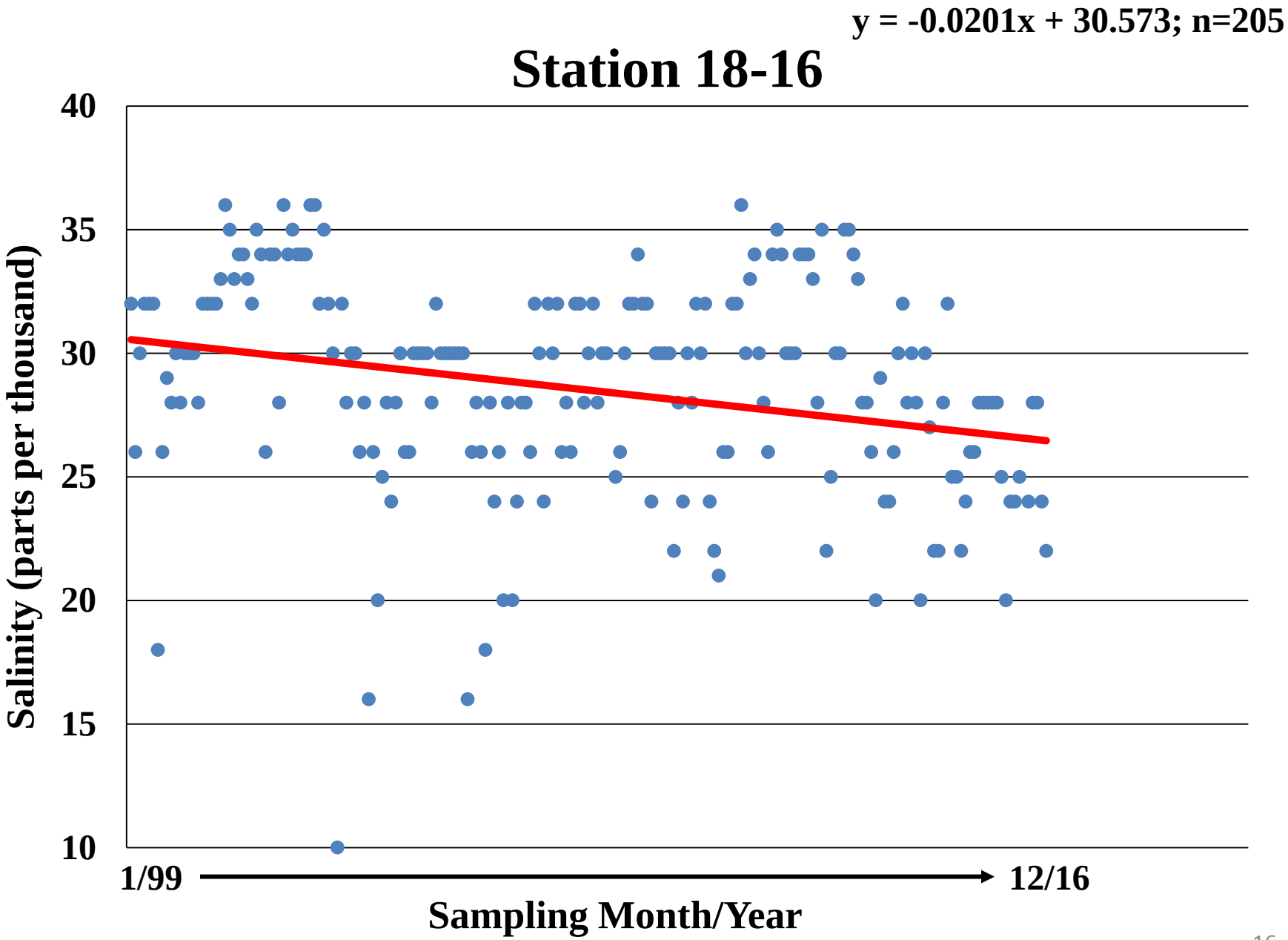


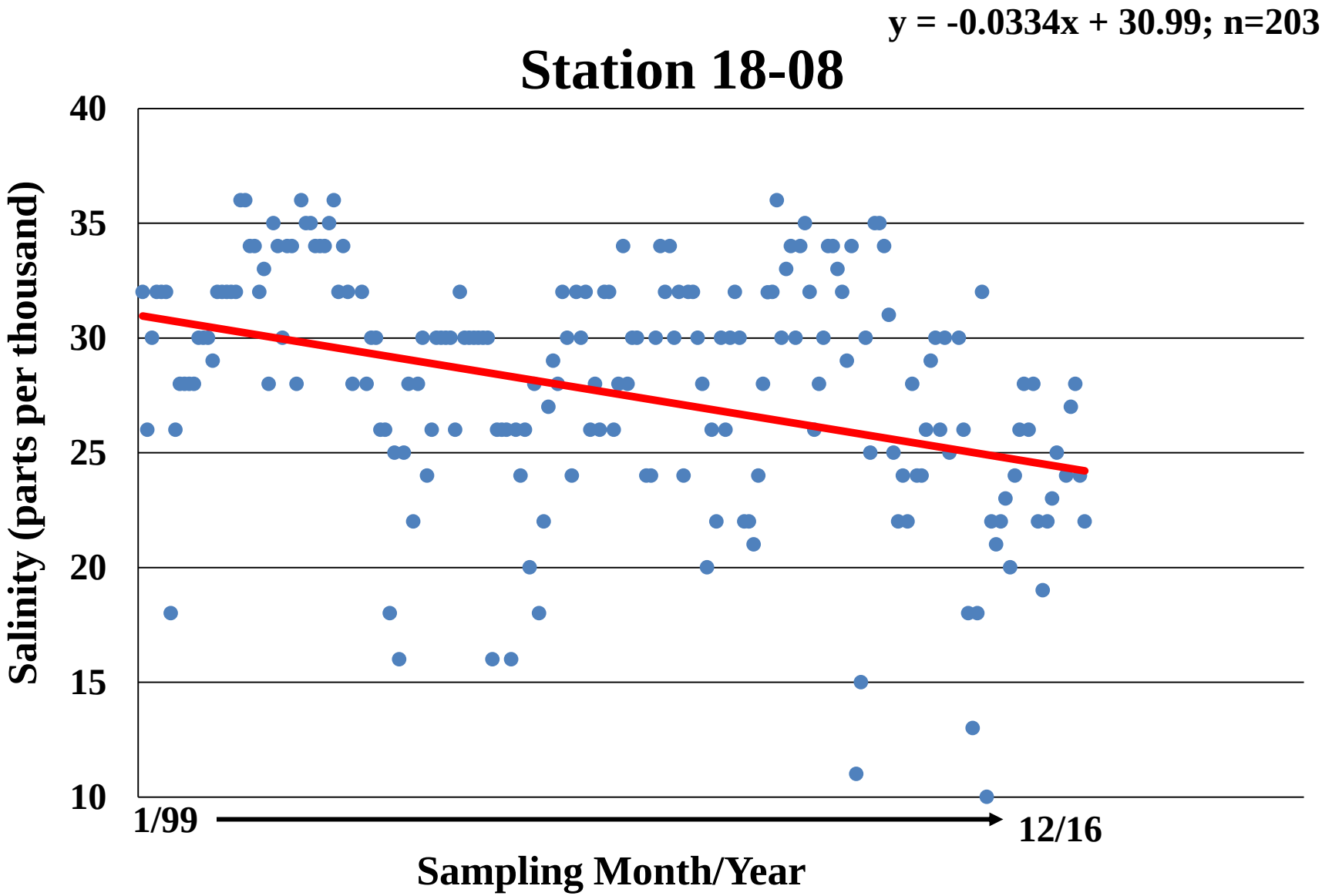
y = -0.0129x + 30.971; n=204

Station 18-07




y = -0.0156x + 30.753; n=205
Station 18-17
Salinity (parts per thousand)
40
35
30
25
20
15
10
1/99
12/16
Sampling Month/Year


y = -0.0201x + 30.573; n=205
Station 18-16
Salinity (parts per thousand)
40
35
30
25
20
15
10
1/99
12/16
Sampling Month/Year


y = -0.0334x + 30.99; n=203
Station 18-08
Salinity (parts per thousand)
40
35
30
25
20
15
10
1/99
12/16
Sampling Month/Year

Trendline Slopes and Summary

Station	Fecal Slope	Salinity Slope
18-02	+ 0.029	-0.0103
18-01	- 0.0102	-0.0102
18-07	+ 0.0609	-0.0129
18-17	+ 0.1624	-0.0156
18-16	+ 0.396	-0.0201
18-08	+ 1.0813	-0.0334

Summary: In a previous analysis, five of six monitoring stations examined saw increasing trends in fecal coliform concentration during the period 1/99 to 12/16. In general, the rate of increase in fecal coliform concentration was, at least in part, a function of where a particular monitoring station was located relative to the headwaters of the Okatie River (i.e., the rate of increase became greater as one moved further upriver). In addition, the same pattern emerged when one examined the average concentration of fecal coliform bacteria at each monitoring station over the period from 1/99 to 12/16 (i.e., average fecal coliform concentrations were 9.5, 29.9, 15.0, 26.4, 43.9 and 91.9 MPN at monitoring stations 18-02, 18-01, 18-07, 18-17, 18-16 and 18-08, respectively). We now report the results of a second analysis, this one examining salinity changes (often considered a surrogate measure of stormwater volume) at these same monitoring stations over the same time period. As might be predicted based on fecal coliform concentration trends, salinity decreased at all six monitoring stations during the period 1/99 to 12/16, with the rate of decrease being greater as one moved further upriver. These results suggest an increase in stormwater volume into the Okatie River over time, with a concomitant increase in bacterial loading.

Narrative Summary of the Analysis of DHEC Shellfish Monitoring Stations 18-01, 18-02, 18-07, 18-08, 18-16 and 18-17

Eric W. Larson
Beaufort County Stormwater Utility Manager
December 15, 2017

Narrative Summary

- The attached analysis consists of a series of graphics showing trends of fecal coliform concentrations, as reported by SC-DHEC, at six sampling stations within the Okatie River from 1999 to 2016. The sampling stations are shown on the accompanying map.
- In general, the concentration of bacteria increased as one traveled upriver toward the headwaters. The higher concentrations in the headwaters are believed to be a function of its relatively shallow depth and the fact that it doesn't "flush" well by comparison to downriver locations.
- Bacterial concentration trends over time were upward at five of the six sampling stations. In other words, bacterial concentrations generally increased over the 18-year period analyzed.
- Monitoring efforts have not included the measurement of surface runoff or overland flow within the Okatie River watershed. However, increased runoff volume and flow rate are suspected following rain events that have occurred over the period analyzed.
- The following milestones in Beaufort County's Stormwater Utility program are noteworthy:
  - 1) The Stormwater Utility was formed in 2001, and
  - 2) the Okatie River TMDL report is based on data through 2010.

What Does This Mean?

- The upward trend in fecal coliform concentration does not reflect a lack of concern by the County for the "health" of the Okatie River or development within its watershed.
- Though the watershed has seen some development, it has been relatively undeveloped over the time period analyzed, suggesting the predominant bacterial input has been from "natural" sources. Nonetheless, development without adequate BMPs has the potential to further increase runoff volume and flow rate, thereby amplifying the amount of bacteria entering the Okatie River via suspension and transport within channels.
- As the County finds the upward trend in bacterial concentration unacceptable, a more proactive approach to management of the Okatie River watershed is needed compared to years past. The Okatie East project completed in late 2014 was an initial step in the right direction. However, it must be viewed as the first of several such efforts to be implemented at strategic locations within the watershed.

Looking Ahead

- The County's goals are to be vigilant in its regulatory oversight, pursue land preservation, and construct new BMPs throughout the Okatie River watershed in an attempt to slow/stop the upward trend in bacterial concentration and ideally, reverse it.
- Given the “naturally occurring” bacterial sources and proposed development within the watershed, it is imperative that BMPs be well-designed, well-maintained, and well-functioning when development does occur.
- Comprehensive water quality monitoring plans are needed to identify priority areas within the watershed and determine the effectiveness of BMPs.
  - Such plans will inform the County and allow for early intervention and appropriate enforcement, thereby supporting the goal of natural resource preservation.

Exhibit H

Notable Potential for Pollution (Y/N)	Priority (H/M/L)	NAME	POLLUTANT OF CONCERN	STREET ADDRESS	TYPE_USE	AUDITED IN PERMIT YR (Y/N)	Activity Ocered by NPDES Permit? (Y/N)	Is a Pollution Prevention Plan in Effect? (Y/N)
Y	L	HILTON HEAD AIRPORT TERMINAL	Fuel	120 BEACH CITY RD	Airport	Y	Y	Y
Y	L	LI AIRPORT TERMINAL	Fuel	237 SEA ISLAND PKWY	Airport	Y	Y	Y
Y	L	LI AIRPORT HANGARS	Fuel, Chemicals	237 SEA ISLAND PKWY	Airport	Y	Y	Y
Y	L	LI AIRPORT T-HANGER	Fuels, Chemicals	237 SEA ISLAND PKWY	Airport	Y	Y	Y
Y	L	ARTHUR HORNE BUILDING	Generator Fuel	104 RIBAUT RD	County Administration	N	N	N
Y	L	BIV BLDG 3	Generator	102 INDUSTRIAL VILLAGE RD	County Administration	N	N	N
Y	L	CORONER	Generator	1804 OLD SHELL RD	County Administration	N	N	N
Y	L	DSN OFFICE	Generator	1 WASTEWATER WAY	County Administration	N	N	N
Y	L	COUNTY DETENTION CENTER	Generator	106 RIBAUT RD	Detention Center	N	N	N
Y	H	BIG ESTATE DOC BLDG	Solid Waste	63 BIG ESTATE RD	Drop Off Center	Y	N	N
Y	H	BLUFFTON DOC BLDG	Solid Waste	104 SIMMONSVILLE RD	Drop Off Center	Y	N	N
Y	H	COFFIN PT DOC BLDG	Solid Waste	20 CEE CEE RD	Drop Off Center	Y	N	N
Y	H	CUFFY DOC BLDG	Solid Waste	138 CUFFY RD	Drop Off Center	Y	N	N
Y	H	DAUFUSKIE ISLAND DOC	Solid Waste	186 HAIG POINT RD	Drop Off Center	Y	N	N
Y	H	HILTON HEAD DOC	Solid Waste	26 SUMMIT RD	Drop Off Center	Y	N	N
Y	H	GATES DOC BLDG	Solid Waste	316 CASTLE ROCK RD	Drop Off Center	Y	N	N
Y	H	LOBECO DOC BLDG	Solid Waste	6 KEANS NECK RD	Drop Off Center	Y	N	N
Y	H	PRITCHARDVILLE DOC BLDG	Solid Waste	54 GIBBET RD	Drop Off Center	Y	N	N
Y	H	SHANKLIN RD DOC BLDG	Solid Waste	94 SHANKLIN RD	Drop Off Center	Y	N	N
Y	H	SHELDON DOC BLDG	Solid Waste	208 PAIGE POINT RD	Drop Off Center	Y	N	N
Y	H	STHEL DOC ATTENDANT BLDG	Solid Waste	639 SEA ISLAND PKY	Drop Off Center	Y	N	N
Y	H	STHEL DOC STORAGE SHLTR	Solid Waste	639 SEA ISLAND PKY	Drop Off Center	Y	N	N
Y	H	STHEL DOC TIRE/OIL SHLTR	Solid Waste	639 SEA ISLAND PKY	Drop Off Center	Y	N	N
Y	L	EMS-1 (EMS HEADQUARTERS)	Generator	2727 DEPOT RD	EMS	N	N	N
Y	M	LI FIRE DISTRICT 1 (SHERIFF HELICOPTER)		146 LADYS ISLAND DR	Fire Department	N	N	N
Y	L	ST HELENA LIBRARY	Generator	6355 JONATHAN FRANCIS SR DR	Library	N	N	N
Y	H	PUBLIC WORKS FUEL STATION	Fuel	94 SHANKLIN RD	Miscellaneous	Y	N	N
Y	L	BASIL GREEN COMPLEX - Maintenance Shed	Herbicide, Fuel	1500 RODGERS ST	PALS	N	N	N
Y	L	BATTERY CREEK INDOOR POOL	Chemicals	1 BLUE DOLPHIN DR	PALS	N	N	N
Y	L	BEAUFORT INDOOR POOL	Chemicals	84A SEA ISLAND PKWY	PALS	N	N	N
Y	L	BLUFFTON POOL	Chemicals	200 BURNT CHURCH RD	PALS	N	N	N
Y	L	BURTON WELLS REC CENTER	Generator	1 MIDDLETON RECREATION DR	PALS	N	N	N
Y	L	CHARLES "LIND" BROWN POOL	Chemicals	1710 GREENE ST	PALS	N	N	N
Y	M	CROSSINGS PARK	Maintenance Shed, Fuel	6 HAIG POINT CIR	PALS	N	N	N
Y	M	LADYS ISLAND PARK - BALL FIELDS	Fuel	20 SPRINGFIELD RD	PALS	N	N	N
Y	L	BCSO	Generator	2001 DUKE ST	Police	N	N	N
Y	M	ANIMAL SHELTER CLINIC	Animal Waste, Cleaners	23 SHELTER CHURCH RD	Public Place	N	N	N
Y	M	ANIMAL SHELTER OFFICE BLDG	Animal Waste, Cleaners	23 SHELTER CHURCH RD	Public Place	N	N	N
Y	M	CAT SHELTER BLDG	Animal Waste, Chemicals	23 SHELTER CHURCH RD	Public Place	N	N	N
Y	H	LRTA	Fuel	25 BENTON FIELD RD	Public Service	Y	N	N
Y	L	MOSQUITO CONTROL OFFICE	Chemicals	84 SHANKLIN RD	Public Service	Y	N	N
Y	H	PUBLIC WORKS MAINTENANCE BLDG	Fuel, Oil	120 SHANKLIN RD	Public Service	Y	N	N
Y	H	PUBLIC WORKS SOUTH	Fuel, Oil	9 BENTON FIELD RD	Public Service	Y	N	N
N	L	HHI AIRPORT LIGHTING VAULT		120 BEACH CITY RD	Airport	N	N	N
N	L	HHI AIRPORT LOCALIZER		120 BEACH CITY RD	Airport	N	N	N
N	L	HHI AIRPORT ROTATING BEACON		120 BEACH CITY RD	Airport	N	N	N
N	L	HHI AIRPORT RUNWAY SIGN		120 BEACH CITY RD	Airport	N	N	N
N	L	HHI AIRPORT STORAGE SHED		120 BEACH CITY RD	Airport	N	N	N
N	L	HHI AIRPORT TAXI/RNWY LIGHTS		120 BEACH CITY RD	Airport	N	N	N

Notable Potential for Pollution (Y/N)	Priority (H/M/L)	NAME	POLLUTANT OF CONCERN	STREET ADDRESS	TYPE_USE	AUDITED IN PERMIT YR (Y/N)	Activity Ocered by NPDES Permit? (Y/N)	Is a Pollution Prevention Plan in Effect? (Y/N)
N	L	HHI AIRPORT TRAFFIC CNTRL		45 SUMMIT DR	Airport	N	N	N
N	L	HHI AIRPORT WINDSOCK		120 BEACH CITY RD	Airport	N	N	N
N	L	LI AIRPORT OFFICE/HANGAR		237 SEA ISLAND PKWY	Airport	N	N	N
N	L	LI AIRPORT PREC APPROACH PATH		237 SEA ISLAND PKWY	Airport	N	N	N
N	L	LI AIRPORT ROTATING BEACON		237 SEA ISLAND PKWY	Airport	N	N	N
N	L	LI AIRPORT RUNWAY END ID LT		237 SEA ISLAND PKWY	Airport	N	N	N
N	L	LI AIRPORT SIGNS		237 SEA ISLAND PKWY	Airport	N	N	N
N	L	LI AIRPORT TAXI/RNWY LIGHTS		237 SEA ISLAND PKWY	Airport	N	N	N
N	L	LI AIRPORT TERMINAL/LGHT VAULT		237 SEA ISLAND PKWY	Airport	N	N	N
N	L	LI AIRPORT WINDSOCK		237 SEA ISLAND PKWY	Airport	N	N	N
N	L	BIV BLDG 1		102 INDUSTRIAL VILLAGE RD	County Administration	N	N	N
N	L	BIV BLDG 2		102 INDUSTRIAL VILLAGE RD	County Administration	N	N	N
N	L	BIV BLDG 4		15 JOHN GAULT RD	County Administration	N	N	N
N	L	BIV BLDG 5		113 INDUSTRIAL VILLAGE RD	County Administration	N	N	N
N	L	COUNTY ADMINISTRATION BUILDING		100 RIBAUT RD	County Administration	N	N	N
N	L	COUNTY COURTHOUSE BLDG		102 RIBAUT RD	County Administration	N	N	N
N	L	COURTHOUSE ANNEX HHI		150 WILLIAM HILTON PKY	County Administration	N	N	N
N	L	HHI COUNTY OFFICE		539 WILLIAM HILTON PKY	County Administration	N	N	N
N	L	MYRTLE PARK OFFICE BLDG		4819 BLUFFTON PKWY	County Administration	N	N	N
N	H	STHEL DOC FENCING		639 SEA ISLAND PKY	Drop Off Center	N	N	N
N	L	BEAUFORT COUNTY MAIN LIBRARY		311 SCOTT ST	Library	N	N	N
N	L	BLUFFTON BRANCH LIBRARY		120 PALMETTO WAY	Library	N	N	N
N	L	DALE BRANCH LIBRARY		364 KEANS NECK RD	Library	N	N	N
N	L	HILTON HEAD BRANCH LIBRARY		11 BEACH CITY RD	Library	N	N	N
N	L	LOBECO BRANCH LIBRARY		1862 TRASK PKY	Library	N	N	N
N	L	BROAD RIVER LNDG RESTROOM		1050 ROBERT SMALLS PKY	Miscellaneous	N	N	N
N	L	DSN DWELLING		9 PEYTONS WAY	Miscellaneous	N	N	N
N	L	DSN DWELLING		260 LITTLE CAPERS RD	Miscellaneous	N	N	N
N	L	OFFICE - MARINE RESCUE SQUAD		1408 PARIS AVE	Miscellaneous	N	N	N
N	L	OFFICE - BIV5 WAREHOUSE		118 INDUSTRIAL VILLAGE RD	Miscellaneous	N	N	N
N	L	OKATIE OFFICE		1021 OKATIE HWY	Miscellaneous	N	N	N
N	L	AGNES A. MAJOR CENTER		21 AGNES MAJOR RD	PALS	N	N	N
N	L	ALTAMAHA PROPERTY		OLD BAILEYS RD	PALS	N	N	N
N	L	ARTHUR HORNE NATURE PARK		2540 AZALEA DR	PALS	N	N	N
N	M	BARKER FIELD		70 BAYGALL ROAD	PALS	N	N	N
N	L	BASIL GREEN COMPLEX		1500 RODGERS ST	PALS	N	N	N
N	L	BASIL GREEN COMPLEX		1302 LAFAYETTE ST	PALS	N	N	N
N	L	BEAUFORT TENNIS COURTS		1105 BLADEN ST	PALS	N	N	N
N	L	BEAUFORT TENNIS COURTS		1511 CONGRESS ST	PALS	N	N	N
N	L	BEAUFORT TENNIS COURTS		1510 BOUNDARY ST	PALS	N	N	N
N	L	BLUFFTON GYM		61A ULMER RD	PALS	N	N	N
N	L	BLUFFTON RECREATION CENTER		61B ULMER RD	PALS	N	N	N
N	M	BOB JONES FIELD		2712 JONES AVE	PALS	N	N	N
N	L	BOOKER T. WASHINGTON CENTER		182 BOOKER T WASHINGTON CIR	PALS	N	N	N
N	M	BROOMFIELD BALLFIELD AND CENTER		205 BRICKYARD POINT RD N	PALS	N	N	N
N	M	BRUCE EDGERLY FIELD		719 16TH ST	PALS	N	N	N
N	L	BUCKWALTER REC CENTER		900 BUCKWALTER PKWY	PALS	N	N	N
N	M	BUCKWALTER REGIONAL PARK		900 BUCKWALTER PKWY	PALS	N	N	N
N	M	BUCKWALTER SKATE PARK		870 BUCKWALTER PKWY	PALS	N	N	N

Notable Potential for Pollution (Y/N)	Priority (H/M/L)	NAME	POLLUTANT OF CONCERN	STREET ADDRESS	TYPE_USE	AUDITED IN PERMIT YR (Y/N)	Activity Ocered by NPDES Permit? (Y/N)	Is a Pollution Prevention Plan in Effect? (Y/N)
N	M	BURTON WELLS COUNTY PARK		1 MIDDLETON RECREATION DR	PALS	N	N	N
N	L	CAMP ST MARYS		119 CAMP ST MARYS RD	PALS	N	N	N
N	L	CHARLES "LIND" BROWN NEIGHBORHOOD ACTIVITY CENTER		1001 HAMAR ST	PALS	N	N	N
N	M	CRYSTAL LAKE PARK		124 LADYS ISLAND DR	PALS	N	N	N
N	M	CRYSTAL LAKE PARK		100 LADYS ISLAND DR	PALS	N	N	N
N	M	CRYSTAL LAKE PARK			PALS	N	N	N
N	M	CRYSTAL LAKE PARK		92 LADYS ISLAND DR	PALS	N	N	N
N	L	DALE RECREATION COMPLEX		15 COMMUNITY CENTER RD	PALS	N	N	N
N	L	DALE WALKING TRAIL		364 KEANS NECK RD	PALS	N	N	N
N	L	DAVID SMITH CENTER (COOSAW CENTER)		140 COOSAW RIVER DR	PALS	N	N	N
N	L	FORT FREMONT		PENN CENTER RD	PALS	N	N	N
N	L	GLORIA POTTS COMMUNITY CENTER (SEASIDE CENTER)		130 SEASIDE RD	PALS	N	N	N
N	M	LADYS ISLAND PARK		12 SPRINGFIELD RD	PALS	N	N	N
N	L	MC RILEY COMPLEX		185 GOETHE RD	PALS	N	N	N
N	L	NATIONAL ST FIELD (METZ FIELD)		1812 NATIONAL ST	PALS	N	N	N
N	M	OLD WATER SLIDE		1672 SEA ISLAND PKWY	PALS	N	N	N
N	M	OSCAR FRAZIER PARK		10 RECREATION CT	PALS	N	N	N
N	M	OYSTER FACTORY PARK		101 WHARF ST	PALS	N	N	N
N	L	PINCKNEY COLONY PRESERVE		7 PINCKNEY COLONY RD	PALS	N	N	N
N	L	PORT ROYAL COMMUNITY & ARTS CENTER		1514 RICHMOND AVE	PALS	N	N	N
N	M	SCOTT CENTER BALLFIELD		228 SCOTT HILL RD	PALS	N	N	N
N	L	SCOTT RECREATION COMPLEX		242 SCOTT HILL RD	PALS	N	N	N
N	M	SHELL POINT BALLFIELD / TENNIS			PALS	N	N	N
N	M	SHELL POINT BALLFIELD / TENNIS		34 SHELL POINT RECREATION PK	PALS	N	N	N
N	M	SHELL POINT BALLFIELD / TENNIS			PALS	N	N	N
N	M	SHELL POINT PARK		615 BROAD RIVER DR	PALS	N	N	N
N	M	SOUTHSIDE PARK / TENNIS COURTS		1405 BATTERY CREEK RD	PALS	N	N	N
N	M	ST HELENA PARK		185 BALL PARK RD	PALS	N	N	N
N	M	BCSO PISTOL RANGE STRUCTURE		146 SHANKLIN RD	Police	N	N	N
N	L	OFFICE DRUG LAB		113 INDUSTRIAL VILLAGE RD	Police	N	N	N
N	L	ASSESSORS ANNEX BLDG		1925 DUKE ST	Public Place	N	N	N
N	L	BEAUFORT COURTHOUSE		1909 BOUNDARY ST	Public Place	N	N	N
N	L	DHEC OFFICE BLDG		1407 KING ST	Public Place	N	N	N
N	L	FEDERAL COURTHOUSE		1501 BAY ST	Public Place	N	N	N
N	L	HEALTH DEPARTMENT		600 WILMINGTON ST	Public Place	N	N	N
N	L	HUMAN SERVICES BLDG		1905 DUKE ST	Public Place	N	N	N
N	L	LADYS ISLAND AIRPORT		237 SEA ISLAND PKWY	Airport	N	N	N

BC CONNECT (311) APP COMPLAINTS 12/01/2016 to 12/01/2017

ReqID	Form Name	Date Submitted	Assigned To	Description
525	Dirt Road Needs Grading	9/28/2017 14:43	Jerry Stanley	Request to pave David Green Rd and White Rd
314	Dirt Road Needs Grading	3/3/2017 10:03	Jerry Stanley	Needs apron lip at beginning of driveway
574	Dirt Road Needs Grading	11/13/2017 14:27	Jerry Stanley	Address is approximate location.
529	Dirt Road Needs Grading	9/29/2017 9:13	Jerry Stanley	Several farm trucks, tractors and buses travel this road.
312	Dirt Road Needs Grading	3/3/2017 9:43	David Wilhelm	Road needs paved, floods when it rains
530	Dirt Road Needs Grading	9/29/2017 9:22	Jerry Stanley	Request to pave dirt road
433	Dirt Road Needs Grading	7/28/2017 14:02	Jerry Stanley	Construct stone construction entrance
496	Dirt Road Needs Grading	9/19/2017 19:02	Jerry Stanley	Dirt road to Russ Point Landing needs to be graded. Some areas washed out after Irma.
518	Dirt Road Needs Grading	9/28/2017 13:42	John Miller	Road needs Maintenance
302	Dirt Road Needs Grading	2/20/2017 7:45	David Wilhelm	Road needs grading. The scraper has been sitting out here for weeks. Thanks!
317	Drainage Ditch Clogged	3/3/2017 10:18	Chad Stanley	Drainage issue-yard fills up with water, ditch not working properly.

284	Drainage Ditch Clogged	1/30/2017 12:12	Danny Polk	Property not draining. Condition aftr since hurricane matthew.
556	Drainage Ditch Clogged	10/25/2017 14:26	Matt Rausch	Adjacent property ditch is blocked with a log, not draining and overgrown. Also, there is a leaning dead pine tree along ditch easement in neighboring yard.
455	Drainage Ditch Clogged	8/24/2017 13:00	Matt Rausch	Ditch it and pipe is clogged doesn't drain well needs to be dug out for better water displacement
522	Drainage Ditch Clogged	9/28/2017 14:18	Matt Rausch	Overgrown with weeds
482	Drainage Ditch Clogged	9/13/2017 14:09	Matt Rausch	Ditch is eroding
538	Drainage Ditch Clogged	10/2/2017 10:36	Matt Rausch	Address is for point of reference - Morning Mist (off of Shell Point Rd) ditch in both sides of road needs reworked
448	Drainage Ditch Clogged	8/10/2017 23:48	Eric Larson	4th REQUEST THIS YEAR.. NO ACTION HAS BEEN TAKEN. Please clear the ditch behind my house. My 6ft fence is 3 foot underwater. It was my understanding the easement issue was resolved
394	Drainage Ditch Clogged	6/7/2017 10:05	Eric Larson	Parking lot is flooding - not draining
535	Drainage Ditch Clogged	10/2/2017 8:38	Matt Rausch	Address is for point of reference-Broad River Dr corner of Ashwood across from Forks of Ivy there is debris is ditch and drain cover/exposed thick metal wire
519	Drainage Ditch Clogged	9/28/2017 13:46	Matt Rausch	Water builds up after a heavy rain
364	Drainage Ditch Clogged	5/9/2017 16:11	Eric Larson	Ditch clogged
295	Drainage Ditch Clogged	2/9/2017 15:43	David Wilhelm	Drainage issue at Derf Ln and Goethe Rd.

479	Drainage Ditch Clogged	9/13/2017 10:36	Matt Rausch	Drainage ditches clogged, corner of Hamrick Dr and Broad River culvert backed up. Several yards flooded.
324	Drainage Ditch Clogged	3/3/2017 11:28	Chad Stanley	Ditches along Seaside road are not draining, needs cleaned
292	Drainage Ditch Clogged	2/9/2017 10:31	Chad Stanley	Ditch has several areas on both sides of Ball Park Road that need go be cleaned of debris that is holding back flow.
532	Drainage Ditch Clogged	9/29/2017 10:20	Matt Rausch	Ditch and pond eroding
494	Drainage Ditch Clogged	9/18/2017 11:59	Matt Rausch	Marsh/river weeds are clogging the ditches.
340	Drainage Ditch Clogged	3/20/2017 9:58	Chad Stanley	Ditch across from the body shop near corner of Stanley Rd and Laurel Bay Rd stays filled with water
468	Drainage Ditch Clogged	9/11/2017 11:29	Eric Larson	Again, and in the beginning of this storm I want to make note of my repeated request for assistance. Being on "Your list" did not help my situation. Please note, by the end of Irma my shed foundation
544	Drainage Ditch Clogged	10/2/2017 11:54	Matt Rausch	Address is for point of reference - drainage ditch needs cleaned out
491	Drainage Ditch Clogged	9/18/2017 10:57	Matt Rausch	Storm ditches on both sides of the property are overgrown.
462	Drainage Ditch Clogged	8/28/2017 14:07	Matt Rausch	Full of water and not draining. The water stinks and is attracting mosquitoes.
541	Drainage Ditch Clogged	10/2/2017 11:27	Matt Rausch	Address is for point of reference -southwest side of palmetto ridge ditch needs reworked from Broad River Dr
507	Drainage Ditch Clogged	9/26/2017 14:08	Matt Rausch	Debris has accumulated in the ditch between 26 and 28 Dolphin Point Dr
285	Drainage Ditch Clogged	1/30/2017 12:19	Chad Stanley	Construction form property next door eroding ditch into marsh..

526	Drainage Ditch Clogged	9/29/2017 8:51	Matt Rausch	Ditch on both sides of the road are blocked.
502	Drainage Ditch Clogged	9/22/2017 14:23	Eric Larson	Ditch between Dogwood and Cedarbrook St in shell point area, it is blocked where it passes under magnolia
315	Drainage Ditch Clogged	3/3/2017 10:11	Chad Stanley	Drainage issue-water not draining out of ditches and is backing up.
523	Drainage Ditch Clogged	9/28/2017 14:32	Matt Rausch	Small trees growing in ditches. Grass on roadways need cut. Trash constantly thrown on roadside
332	Drainage Ditch Clogged	3/9/2017 14:18	Danny Polk	Fern Lake POA reported ditch and pipe cut from property north of subdivision and discharging into POA ponds.
483	Drainage Ditch Clogged	9/13/2017 15:33	Matt Rausch	Drainage ditch and culverts need maintenance. Street is impassable and property is flooded.
536	Drainage Ditch Clogged	10/2/2017 8:41	Matt Rausch	Address is for point of reference- broad river Dr ditch that is midway between Ashwood and Hickory is filled in
520	Drainage Ditch Clogged	9/28/2017 13:50	Matt Rausch	Drainage ditch in front of property has been retaining water since Matthew
533	Drainage Ditch Clogged	9/29/2017 13:10		18 Palmetto Beach Dr floods during rain as the culvert pipe is clogged and not working. Please call me. 834-8162669
495	Drainage Ditch Clogged	9/19/2017 13:13	Matt Rausch	Culvert pipe which goes under the road is clogged and makes my driveway and yard flood with each heavy rain.
474	Drainage Ditch Clogged	9/12/2017 19:07	Matt Rausch	Ditch clogged. See email from resident
545	Drainage Ditch Clogged	10/2/2017 12:48	Matt Rausch	Address is for point of reference - road undermined and a red line (gas?) unsupported
325	Drainage Ditch Clogged	3/3/2017 11:33	Chad Stanley	Ditches along Simmons road aren't flowing, stagnant water and dirt road washes out when it rains

357	Drainage Ditch Clogged	4/10/2017 15:42	Chad Stanley	Water sitting in ditch
439	Drainage Ditch Clogged	8/2/2017 8:36	Chad Stanley	Newer ditch of ours is overgrown.
572	Drainage Ditch Clogged	11/13/2017 9:50	Matt Rausch	Pond level not going down. Suspected clog in downstream system.
492	Drainage Ditch Clogged	9/18/2017 11:14	Matt Rausch	Storm drain at bay point road near Klebold is blocked with branches and debris.
416	Drainage Ditch Clogged	7/11/2017 15:33	Matt Rausch	Problem previously reported was never addressed. Ditch is washing away my back yard. I'm unable to cut back yard. Water comes halfway up my 6 ft fence. Standing water is s problem.
542	Drainage Ditch Clogged	10/2/2017 11:34	Matt Rausch	Address is for point of reference - ditch on broad river Dr between Palmetto Ridge and Walnut St needs cleaned - drain cover leaning forward.
539	Drainage Ditch Clogged	10/2/2017 10:41	Matt Rausch	Address is for point of reference - Shell Ppint Rd (west side) at Broad River Dr ditch needs cleaned and concrete drain cover needs cleaned under/around
373	Drainage Ditch Clogged	5/23/2017 18:48		Storm drain ditches, culverts not flowing. Near flood into streets and yards.
560	Drainage Ditch Clogged	10/30/2017 9:15	Matt Rausch	Storm drain needs maintained
509	Drainage Ditch Clogged	9/27/2017 7:14	Matt Rausch	Ditch flooding
504	Drainage Ditch Clogged	9/25/2017 9:52	Matt Rausch	Ditches throughout Sandhill Estates are overgrown and not draining. The standing water is attracting mosquitoes.

351	Drainage Ditch Clogged	4/4/2017 15:56	Chad Stanley	Ditch is overgrown and clogged
316	Drainage Ditch Clogged	3/3/2017 10:15	Chad Stanley	Drainage issue-water not draining out of ditches
524	Drainage Ditch Clogged	9/28/2017 14:36	Matt Rausch	Roadside grass needs cut on No Man Land Rd and Peaches Hill Cir
555	Drainage Ditch Clogged	10/25/2017 13:42	Matt Rausch	Ditch is completely overgrown and wvweyrime it rains my front yard floods.
300	Drainage Ditch Clogged	2/17/2017 14:07	Chad Stanley	Drainage issue on Young Cir off of Stuart Point Rd
454	Drainage Ditch Clogged	8/15/2017 16:26	Dan Brower	The ditch that runs in between 3013 and 3015 Dogwood street is not draining. This is causing septic issues and flooding. My septic tank was emptied and inspected last month with no issues. Now it will not drain properly. The drain is higher than the ditch. The ditch needs to be dug out. I called both the county and state and both are saying it's the other one's ditch.
400	Drainage Ditch Clogged	6/26/2017 11:01	Chad Stanley	Ditch not draining. KAREN Wunderkind called DHEC about a ditch and OSWW on her property.
537	Drainage Ditch Clogged	10/2/2017 8:53	Matt Rausch	Address is for point of reference- Ditch between dogwood and shell point rd needs cleaned out
500	Drainage Ditch Clogged	9/21/2017 18:47	Matt Rausch	Drainage ditch is completely over grown. Also has several downed trees within from hurricane Matthew. Standing water and creating horrible mosquito issue and difficult to see traffic when backing out of drive way. Called county public works several months ago to report.

347	Drainage Ditch Clogged	3/25/2017 21:52	Chad Stanley	Moved here and buying the place 3 months ago. I need help, it's holding nasty water, overgrown and full of trash. The bugs and mosquitos are horrible.
313	Drainage Ditch Clogged	3/3/2017 9:46	Chad Stanley	Drainage issue- needs cleaned
521	Drainage Ditch Clogged	9/28/2017 14:04	Matt Rausch	Ditch needs cleaned out
330	Drainage Ditch Clogged	3/8/2017 19:42	Eric Larson	The picture submitted is of a drainage ditch/tidal ditch. Before "Matthew" I contacted the county and the DOT about this matter, and both said it was "not their responsibility". After Matthew, the problem has become worse, and I am seeing erosion of my property with every significant rainfall. I would like someone to please clarify who's "problem" it is and rectify the situation.
481	Drainage Ditch Clogged	9/13/2017 13:57	Matt Rausch	Nothing drains. Excess water runs into yard causing flooding
478	Drainage Ditch Clogged	9/13/2017 10:07	Matt Rausch	Ditch is overgrown and not draining.
578	Drainage Ditch Clogged	11/15/2017 8:26	Matt Rausch	Resident states “the outfall ditch” leaving road needs cleaning. They were unclear of which ditch. County mapping shows 3 outfalls. Check all three. (Address is approximate area only)
344	Drainage Ditch Clogged	3/22/2017 15:02	Chad Stanley	Stormwater ditch holding water
310	Drainage Ditch Clogged	3/3/2017 9:29	Chad Stanley	Drainage issue

546	Drainage Ditch Clogged	10/2/2017 12:51	Matt Rausch	Address is for point of reference - drainage needs reviewed
326	Drainage Ditch Clogged	3/3/2017 11:51	Chad Stanley	Drainage concerns in St James Circle subdivision
323	Drainage Ditch Clogged	3/3/2017 11:25	Chad Stanley	Ditch filled with water, needs cleaned
291	Drainage Ditch Clogged	2/9/2017 10:16	Chad Stanley	Litter in ditch. Check ditch system to see if blocked. Standing water in ditch along Ball Park Road.
442	Drainage Ditch Clogged	8/4/2017 9:42	Chad Stanley	Water backup has flooded yard & surrounding area
573	Drainage Ditch Clogged	11/13/2017 10:41	Matt Rausch	Roadside ditch overgrown
493	Drainage Ditch Clogged	9/18/2017 11:16	Matt Rausch	Roadside ditch in front of house is eroding
338	Drainage Ditch Clogged	3/13/2017 10:28	Chad Stanley	Ditches along Franklin Drive and Cherokee Farms have eroding banks and are backing up.
515	Drainage Ditch Clogged	9/27/2017 14:06	Matt Rausch	MiddlevDitch is full and not draining (in between 2 mobile home parks)
540	Drainage Ditch Clogged	10/2/2017 10:44	Matt Rausch	Address is for point of reference - Broad River Dr from Shell Point to Palmetto Ridge needs cleaned out
320	Drainage Ditch Clogged	3/3/2017 11:12	Chad Stanley	Water Backup and concerned about mosquito breeding
460	Drainage Ditch Clogged	8/28/2017 9:05	Matt Rausch	Drainage issue
321	Fallen Tree on Road	3/3/2017 11:16	David Wilhelm	Fallen tree

588	Illicit Discharge	11/25/2017 16:08	Dan Brower	Septic odor is strong.
348	Illicit Discharge	3/27/2017 8:45	Jason Wood	Bad sewer/septic odor along Holly Hall Rd near Big Laurel Dr
452	Illicit Discharge	8/15/2017 12:53	Jason Wood	2" pipe in ditch
361	Illicit Discharge	4/27/2017 12:38	Danny Polk	New single family development on pine island that may not have proper fencing and protection up as required.
308	Illicit Discharge	3/3/2017 8:05	Jason Wood	Stormwater Infrastructure division reported a pipe that had been installed to discharge directly into a catch basin.
288	Illicit Discharge	2/7/2017 9:47	Dan Brower	Report of water in low lying area being pink in color, concerns of illicit discharge
303	Illicit Discharge	2/23/2017 15:21	Dan Brower	Call in from Fern Lakes HOA of possible illicit dicharge fromantic pipe installed from adjoining property
429	Illicit Discharge	7/25/2017 10:47	Dan Brower	DHEC reported possible idde
402	Illicit Discharge	6/28/2017 9:41	Dan Brower	Received call from DHEC that resident stated septic tank is not functioning properly and may have discharged sewage into ditch in the rear of the property.
449	Illicit Discharge	8/11/2017 7:18	Danny Polk	Beaufort County received notification and attached image that raw sewage was being discharged to top of ground instead of septic tank.
252	Illicit Discharge	12/28/2016 10:06	Chad Stanley	Sink hole reported. Teracotta pipe discovered in side of stormpipe.

328	Illicit Discharge	3/8/2017 12:32	Danny Polk	Odor of sewage.
289	Illicit Discharge	2/7/2017 19:14	Danny Polk	ToB staff found failing septic tank.
304	Illicit Discharge	2/24/2017 14:03		Discolored water in ditch.
286	Illicit Discharge	2/6/2017 10:56	Danny Polk	lots being developed in Palmetto Place on Ladys Island do not have silt fencing up. Residents are getting run off when it rains as well as tra
271	Illicit Discharge	1/23/2017 8:48	Jason Wood	White foam in ditches in front of Burton Wells Recteation center.
430	Illicit Discharge	7/27/2017 9:49	Dan Brower	Town of Bluffton's Microbial Source Tracking indicated possible illicit discharge at this lot. Town of Bluffton requested assistance from Beaufort County to investigate.
451	Illicit Discharge	8/14/2017 9:16	Dan Brower	Suspected failing septic system.
305	Illicit Discharge	2/24/2017 14:04		Potential IDDE based on sampling results.
287	Illicit Discharge	2/7/2017 7:49	Danny Polk	See emails from ToB. FouND DURING sourc tracking field work.
334	Illicit Discharge	3/10/2017 11:16	Danny Polk	Failing septic tank at neighboring property
409	Illicit Discharge	7/6/2017 9:24	Jason Wood	Received call from SC DHEC of potential Septic Tank failure. DHEC is looking into enforcement and corrective action.
298	Litter / Illegal Dumping	2/13/2017 20:28	David Wilhelm	Sidewalks between Library and Post Office overgrown with weeds

581	Litter / Illegal Dumping	11/19/2017 17:43	Cindy Carter	Mattress on HWY 21 near John Paul catholic school
270	Litter / Illegal Dumping	1/20/2017 23:09	John Miller	Roadside litter very bad along west side of hwy 17 south.
299	Litter / Illegal Dumping	2/13/2017 20:30	John Miller	Litter on Hwy 21 from Lobeco into Beaufort.
583	Litter / Illegal Dumping	11/20/2017 14:20	Cindy Carter	Mattress right near the second gate entrance towards MCAS. On HWY 21
327	Other Issue/Request	3/5/2017 20:04	Melissa Allen	Directional sign for Button Wells Park leaning over.
418	Other Issue/Request	7/12/2017 16:37	Bobby Anderson	White hall landing needs repair to boat ramp. The end of the ramp has large mud holes in it making it impossible to pull a boat out of the water at low tide. This may have been caused by all the barge activities when the wrecked boats from hurricane Matthew were being pulled out of the water. Have seen numerous boats having to be towed out of the water getting stuck in those holes.
410	Other Issue/Request	7/6/2017 20:18	David Wilhelm	You can't see when you turn left Into Walmart. The nice plants block your few. Watch two people almost wreck. The plants really block your view. Both place where you turn left are bad
406	Other Issue/Request	7/3/2017 11:53	David Wilhelm	Median overgrowth. Making it difficult to see oncoming traffic. Overgrowth needs to be cut to avoid a vehicle accident. Turning left into the Lady's Island Walmart coming from Beaufort.
350	Other Issue/Request	4/4/2017 11:37	Danny Polk	Storm drain in neighborhood has large unsafe opening. Animals are going down them and large enough for a child to fall in. Several small children in neighborhood

554	Other Issue/Request	10/18/2017 20:47	John Miller	The weeds and grass are growing into the street on the city or county side of the road. It's now almost impossible for two cars to pass each other on the road without one going into the grass and weeds. Two cars almost made contact in the curve
395	Other Issue/Request	6/12/2017 6:20	David Wilhelm	Bumper on County dock at Cross island ramp damaged. Reported by county public works to staff June 9, 2017.
365	Other Issue/Request	5/14/2017 11:58	John Miller	Immensly overgrown trees / bushes / vines extending in and over the sidewalk / walkway, forcing pedestrians / wheelchairs close to the roadway to avoid. They have been bent broken back to clear for now.
446	Other Issue/Request	8/8/2017 9:11	Chad Stanley	SW Retention ponds in neighborhood don't appear to have been cleaned or managed.
389	Other Issue/Request	6/2/2017 21:49	John Miller	Lower portion of inner ramp is silted in, needs to be cleaned out to make ramp usable at low tide.
577	Other Issue/Request	11/15/2017 8:03	David Wilhelm	Abandoned boat in marsh by Chowan creek bridge.
420	Other Issue/Request	7/14/2017 13:10	David Wilhelm	Bushes and trees in the median so high, you can't see incoming traffic turning left to the government building. Makes it dangerous to turn
463	Other Issue/Request	8/29/2017 11:50	Matt Rausch	Lady's Point II Apartments are right behind my house. There are trees behind our house that are on top of our garage and pushing our fence over. The apartments say this is a county issue. However this maybe city property. Please advise as we need to get this resolved before another storm hits.
333	Other Issue/Request	3/10/2017 8:35	Jason Wood	Reported to inspection's department by Rebecca that the central drive causeway project's turbidity barrier as well as storage area was in need of attention/housekeeping.
366	Other Issue/Request	5/18/2017 20:13	Chad Stanley	Large storm water pipe pothole in my driveway on the easement. Dangerous! Safety hazard! The actual concrete storm water pipe has a big hole in the top.
387	Other Issue/Request	6/1/2017 8:35	John Miller	Medians need to be cleaned. Can hardly see oncoming traffic

417	Other Issue/Request	7/12/2017 16:33	Bobby Anderson	Wallace landing on dire need of repair Numerous large potholes in ramp. Impossible to put a boat in or out of water at low tide, the end of the ramp is gone and drops straight down into the water in a deep hole. Watched a truck, trailer, and boat fall into the water last year. It has gotten progressively worse. Perhaps when the landing was built the tide wasn't as low or extreme as it is now? Help us with our neighborhood landing please :)
563	Other Issue/Request	11/2/2017 14:14	Melissa Allen	Abandoned boat that has been on side of road for a week.
371	Pipe/Culvert Clogged	5/23/2017 18:18		Storm drain ditches, culverts not flowing. Near flood into streets and yards.
501	Pipe/Culvert Clogged	9/22/2017 9:09	Matt Rausch	Ditches were cleaned and some are now lower than the culvert which is causing standing water creating a mosquito problem
422	Pipe/Culvert Clogged	7/17/2017 10:56	Chad Stanley	Covert pipe buried causing constant erosion and repair on my driveway. Complaint over 3 months old
368	Pipe/Culvert Clogged	5/23/2017 8:50	Chad Stanley	Storm drain ditches, culverts not flowing. Near flood into streets and yards.
345	Pipe/Culvert Clogged	3/22/2017 17:21	Chad Stanley	Pipe clog reported.
251	Pipe/Culvert Clogged	12/28/2016 9:59		Sink hole in back yard.
353	Pipe/Culvert Clogged	4/7/2017 13:27	Chad Stanley	Pipe to pond behind lot is buried. Does not show up on GIS map layer.
456	Pipe/Culvert Clogged	8/25/2017 8:29	Matt Rausch	Culvert controlling ditch between Dog Creek and Coosaw River Dr This is a salt water fingerling creek that has stopped tidal flow since the Hurricane

369	Pipe/Culvert Clogged	5/23/2017 18:15		Storm drain ditches, culverts not flowing. Near flood into streets and yards.
480	Pipe/Culvert Clogged	9/13/2017 10:39	Matt Rausch	Ditches aren't draining and culverts are blocked causing yards to flood and standing water.
309	Pipe/Culvert Clogged	3/3/2017 8:11	Jason Wood	Build up of trash in catch basins
293	Pipe/Culvert Clogged	2/9/2017 10:40	David Wilhelm	Litter and debris clogging pipe culcert.
354	Pipe/Culvert Clogged	4/7/2017 13:33	Chad Stanley	Errossion due to drain to the side of property is clogged
527	Pipe/Culvert Clogged	9/29/2017 8:56	Eric Larson	Pipe under golf fairway, behind house, may be plugged and flooding behind the house. Not sure what is the problem.
457	Pipe/Culvert Clogged	8/25/2017 16:52	Matt Rausch	Culvert blocked and sides of ditch eroding. Needs to be cleared of debris and mud and sides need to be reinforced. Have lost 4 feet if yard since July 4th.
370	Pipe/Culvert Clogged	5/23/2017 18:15		Storm drain ditches, culverts not flowing. Near flood into streets and yards.
403	Pipe/Culvert Clogged	6/30/2017 10:49	Chad Stanley	Culvert under the road may be clogged. Water runs down driveway, causing flooding on residents property.
447	Pipe/Culvert Clogged	8/10/2017 7:54	Chad Stanley	Drainage issue outside of oakview road near Spanish wells
534	Pipe/Culvert Clogged	10/2/2017 8:33	Matt Rausch	Address is for point of reference only - corner of Broad River Dr and Hickory concrete drain cover blocked.
467	Pipe/Culvert Clogged	9/6/2017 9:20	Dan Brower	Complaint about water constantly flowing through a culvert under the road from a wetland area.

431	Pothole on Paved Road	7/28/2017 13:55	Jerry Stanley	Celland sand mine entrance. Road needs patching by County or mine operator.
269	Pothole on Paved Road	1/20/2017 19:14	Jerry Stanley	Multiple pot holes. Seems to be a recurring issue. Even after recently being paved / filled-in.
445	Pothole on Paved Road	8/7/2017 13:15	Cynthia Martin	It appears as if a sink hole developing along the walking trail. Continuing under the roadway
388	Pothole on Paved Road	6/2/2017 21:46	John Miller	Potholes at Sands Beach boat landing
570	Pothole on Paved Road	11/6/2017 22:00	David Wilhelm	Bamboo planted adjacent to paved roadway is sending out runners which are buckling up the pavement. Bamboo is known to be evasive with sending out runners. It is coming up out of pavement.
432	Pothole on Paved Road	7/28/2017 13:58	Jerry Stanley	Pot holes in intersection
296	Pothole on Paved Road	2/9/2017 15:46	Jerry Stanley	Deep pothole on Marblehead Rd.
337	Pothole on Paved Road	3/13/2017 10:17	David Wilhelm	Hole is developing on the left side of the road coming from the Public Works building.
407	Pothole on Paved Road	7/3/2017 12:55	Jerry Stanley	Pot hole reported by citzens to staff on Old Jericho near Sherwin Williams store
587	Pothole on Paved Road	11/22/2017 16:43	Jerry Stanley	Large pothole in middle of road. Cars are swerving around to miss it because of the depth.
297	Pothole on Paved Road	2/9/2017 15:47	Jerry Stanley	Deep pothole on Indian head trail
393	Pothole on Paved Road	6/6/2017 18:42	David Wilhelm	Pretty significant pothole on eastbound side of Sam's Point Road.

421	Pothole on Paved Road	7/16/2017 21:03	Jerry Stanley	There is a pot hole at the end of my driveway and water stands in it attracting mosquitoes. We hit this hole every time we leave or return home and it is just getting bigger. The photo doesn't show how big it is because it's full of water.
363	Pothole on Paved Road	5/8/2017 18:09	David Wilhelm	Pothole, Corner of marsh and marsh
294	Pothole on Paved Road	2/9/2017 10:47	Jerry Stanley	Pot hole
531	Pothole on Paved Road	9/29/2017 9:29	David Wilhelm	Peaches Hill Cir has many large pot holes that need filled
434	Pothole on Paved Road	7/28/2017 14:20	Jerry Stanley	Coleman mine entrance. Operator told to repair the road.
489	Pothole on Paved Road	9/18/2017 9:13	Cynthia Martin	Deep Pothole as you turn from Hwy 21 onto Broad River Blvd.
505	Yard/Street Flooded	9/25/2017 10:12	Matt Rausch	Ditch is flooding into yard.
352	Yard/Street Flooded	4/6/2017 7:57	David Wilhelm	Bluffton Cemetary flooding on regular basis.
486	Yard/Street Flooded	9/15/2017 9:59	Matt Rausch	Water from retention pond is flooding the yards of adjacent properties and encroaching on home foundations
405	Yard/Street Flooded	7/3/2017 7:25	Chad Stanley	During heavy rains the property floods.
551	Yard/Street Flooded	10/9/2017 14:16	Matt Rausch	Address for point of reference. Property owner near by indicated that there is flooding during high tide. Asking if someone can look at gate at the end of the drain pipe that runs across Bridgewood.

331	Yard/Street Flooded	3/9/2017 14:08	Chad Stanley	Ditch full of standing water and flooding into acreage and through neighboring septic system. Water is causing wetland formation into the back third of our property and possible health issue. Water comes in from marsh and never goes out creating alt marsh in ditch and water comes in from deep ditches recently dug by DOT to drain other property along orange grove but it is being pushed to our property and forming standing waters.
401	Yard/Street Flooded	6/26/2017 14:05	Danny Polk	Complaint called in about flooding in the Tanger Outlet 1 parking lot
497	Yard/Street Flooded	9/20/2017 7:37	Eric Larson	The run off from Shadow Moss is adversely impacting resident's property.
311	Yard/Street Flooded	3/3/2017 9:38	Chad Stanley	Ernest mine and needs better run off along this road
547	Yard/Street Flooded	10/3/2017 7:12	Matt Rausch	Reserve at Woodbridge has a lot of water accumulating since Irma.
476	Yard/Street Flooded	9/13/2017 9:43	Matt Rausch	Pond flooded property
516	Yard/Street Flooded	9/27/2017 15:29	Matt Rausch	The back section of May River Preserve has numerous lots with failing erosion control, mud in streets, etc. (311 white loin Ct is an address used for Vicinity and not necessarily the specific address of the issues)
356	Yard/Street Flooded	4/7/2017 19:10	Chad Stanley	Ditch overflowing in my yard. 6ft chain link fence is almost 3ft underwater. Looks like a pond. In level and blocked drainage on the other side of the rd. County gained easement. Put wrong address on first request . 4019 not 4016
435	Yard/Street Flooded	7/28/2017 14:25	Jason Wood	Get Coleman to Rebuild rock construction entrance.

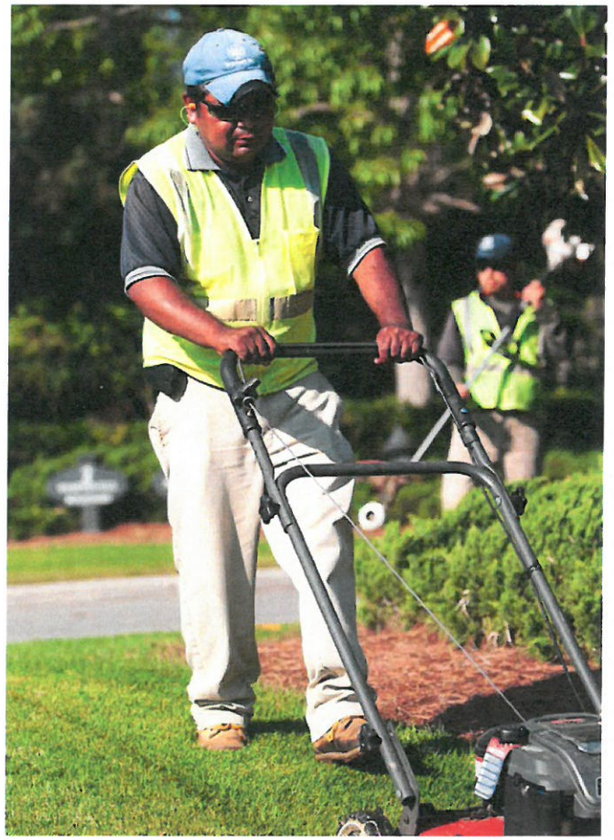
375	Yard/Street Flooded	5/23/2017 18:51		Storm drain ditches, culverts not flowing. Near flood into streets and yards.
335	Yard/Street Flooded	3/10/2017 11:31	Chad Stanley	Stagnant water in ditch. Forming pond and wetland. Water comes from orange grove rd and from marsh and does not /cannot exit sits here.
511	Yard/Street Flooded	9/27/2017 8:59	Eric Larson	Pond on Lady's Island Country Club isn't draining, had some water intrusion onto condo property. Concerned in the event of any more rain that some units may flood.
318	Yard/Street Flooded	3/3/2017 10:26	Chad Stanley	Drainage and flooding problem in backyard area when heavy rains occur
372	Yard/Street Flooded	5/23/2017 18:20		Storm drain ditches, culverts not flowing. Near flood into streets and yards.
558	Yard/Street Flooded	10/26/2017 14:25	Matt Rausch	Front Yard floods during heavy rain.
487	Yard/Street Flooded	9/15/2017 12:54	Matt Rausch	Properties at 7094/7098 Right Field Ct (located off of Dulamo) are flooded
453	Yard/Street Flooded	8/15/2017 13:05	Daron Allen	Swamp area behind residents house is flooded. This drains towards Sea Island Pkwy. Ditch needs cleaning at this location.
498	Yard/Street Flooded	9/20/2017 9:09	Matt Rausch	Ponds on both side of the road leading to the property have flooded the access road.
346	Yard/Street Flooded	3/24/2017 15:40	Chad Stanley	Orange grove road ditch is pushing all water into low area between my property and neighbor. And marsh backfills ditch. Water can't escape the way the ditch is dug.
548	Yard/Street Flooded	10/4/2017 14:57	Eric Larson	Resident states pipes at intersection of Vaux Rd. and Roberts Rd. are undersized. SCDOT referred issue to the County
477	Yard/Street Flooded	9/13/2017 10:03	Matt Rausch	Flooded yard

342	Yard/Street Flooded	3/21/2017 13:00	Chad Stanley	Tremendous flooding on property with nowhere for the water to go. Has caused septic problems for neighbor.
517	Yard/Street Flooded	9/28/2017 13:34	Matt Rausch	Water flooding yard
362	Yard/Street Flooded	5/4/2017 9:08	Chad Stanley	Yard flooded and the ditch is full of debris.
322	Yard/Street Flooded	3/3/2017 11:20	Chad Stanley	Road floods when rains
376	Yard/Street Flooded	5/25/2017 16:26	Eric Larson	Storm drain ditches, culverts not flowing. Entire yard flooded and streets flooded.
513	Yard/Street Flooded	9/27/2017 11:51	Matt Rausch	Yard flooding
319	Yard/Street Flooded	3/3/2017 10:29	Chad Stanley	Drainage Ditch isn't moving the water and yard is flooding consistently.
488	Yard/Street Flooded	9/15/2017 15:14	Matt Rausch	Water in Retention pond behind property is getting high and close to property. water not going down.
485	Yard/Street Flooded	9/15/2017 8:26	Matt Rausch	Water coming onto property from Crystal Beach Lane (across the street)
253	Yard/Street Flooded	12/28/2016 10:36	Chad Stanley	Drainage problem
549	Yard/Street Flooded	10/5/2017 14:18	Eric Larson	Resident states old golf course behind house is flooded, won't drain.
250	Yard/Street Flooded	12/28/2016 9:50	Rebecca Baker	Flooding in yard. Adjacent property has dug a pond and ditch.
359	Yard/Street Flooded	4/12/2017 15:08	Chad Stanley	Yard floods when rains.

475	Yard/Street Flooded	9/13/2017 8:45	Matt Rausch	Yard and vacant lot next to property flooded. 12' standing water
543	Yard/Street Flooded	10/2/2017 11:44	Matt Rausch	Address is for point of reference- hickory between shell point rd and dogwood needs drainage on both sides to prevent flooding at intersection (with shell point rd on NW side)
355	Yard/Street Flooded	4/7/2017 16:29	Chad Stanley	Ditch overflowing in my yard. 6ft chain link fence is almost 3ft underwater. Looks like a pond. In level and blocked drainage on the other side of the rd. I understand county has easement. Please update me. Thanks
374	Yard/Street Flooded	5/23/2017 18:50		Storm drain ditches, culverts not flowing. Near flood into streets and yards.
528	Yard/Street Flooded	9/29/2017 8:58	Matt Rausch	Pond water flooding
510	Yard/Street Flooded	9/27/2017 7:26	Matt Rausch	Ditch at 90 degree turn is flooded and needs cleaned

Exhibit J

LANDSCAPE MAINTENANCE PROPOSAL



the greenery, inc.®

— EMPLOYEE OWNED —

Beaufort County – Sweeping Bid for Bluffton Locations

Mark Roseneau, Director of Facility Management - Beaufort County

December 22, 2015

the greenery, inc.®
— EMPLOYEE OWNED —
843-785-3848 | PO BOX 6569| Hilton Head, SC 29938

Commercial Sweeping Contract

BEAUFORT COUNTY

DECEMBER 22, 2015

The contract shall start upon approval of owner or agent and remain in effect for one year beginning _____. This contract shall automatically renew each year thereafter under the same terms and conditions unless client or contractor provides 45 days written notice. At the beginning of each renewal period, the annual fee will be increased by the most recent consumer price index adjustment, not to exceed 3%.

The Greenery Inc. agrees to perform the following conditions:
GENERAL CONDITIONS: Sweeping to be performed with our 2015 Isuzu NQR – Model 435 Machine. Debris disposal is included in the fee.
SPECIFIC CONDITIONS: None

FEE: The fee is based on a one year term. Should the contract be terminated prior to the expiration date, additional fees may be due based on the remaining term and the actual services provided thru the date of termination. A finance charge of 1 ½% per month (18% per annum) will be charged to all accounts delinquent in excess of 30 days from date of billing. If it is necessary to institute suit to collect on the account, attorneys' fees and costs will be recoverable in addition to the then account balance.

Sweeping Location	*Route Detail*	*Linear Feet*	*# Passes*	*Option 1*	*Option 2*	
				One-Time Only	*Quarterly Visit*	*Annual Fee*
Bluffton Parkway	From Okatie Hwy (170) to Buckingham Plantation Drive	46,500	4	$2,125.00	$1,615.00	$6,460.00
Buckwalter Parkway	From May River Rd (Rte 46) to Fording Island Rd (Hwy 27	22,500	4	$1,000.00	$760.00	$3,040.00
Hwy 278 - Partial	From Okatie Hwy (170) interchange to Hampton Parkway	9,850	4	$375.00	$285.00	$1,140.00
			TOTAL FEE:	***$3,500.00***	***$2,660.00***	***$10,640.00***

_____
(Authorized Signature)

_____
(Print Name, Date)

Janet Noonan
Janet Noonan, Director of Business Development

December 22, 2015
(Date)

O'Donnell, Vanessa

From: Hickman, Maggie
Sent: Wednesday, November 01, 2017 3:05 PM
To: Roseneau, Mark
Cc: O'Donnell, Vanessa
Subject: Street Sweeping

For FY 2017 street sweeping costs with the Greenery were:

Bluffton/Buckwalter Parkway $2,870 per quarter
$2,870 was also the same cost for 1st qtr FY 2018 July thru Sep 2017

US 278 from McGarvey's Corner to Hampton Parkway $255 per month

the greenery, inc.®
— EMPLOYEE OWNED —
PO Box 6569 Phone (843) 785-3848
Hilton Head Island, South Carolina 29938

SEE US AT THE GREENERY FOR WALLS, PATIOS, FOUNTAINS, DECKS, PLANTING, IRRIGATION AND MAINTENANCE.

Beaufort County Engineering Depa
PO Drawer 1228

Beaufort, SC 29901

Invoice

Invoice No	Account No	Date
333455	20515	12/12/2017

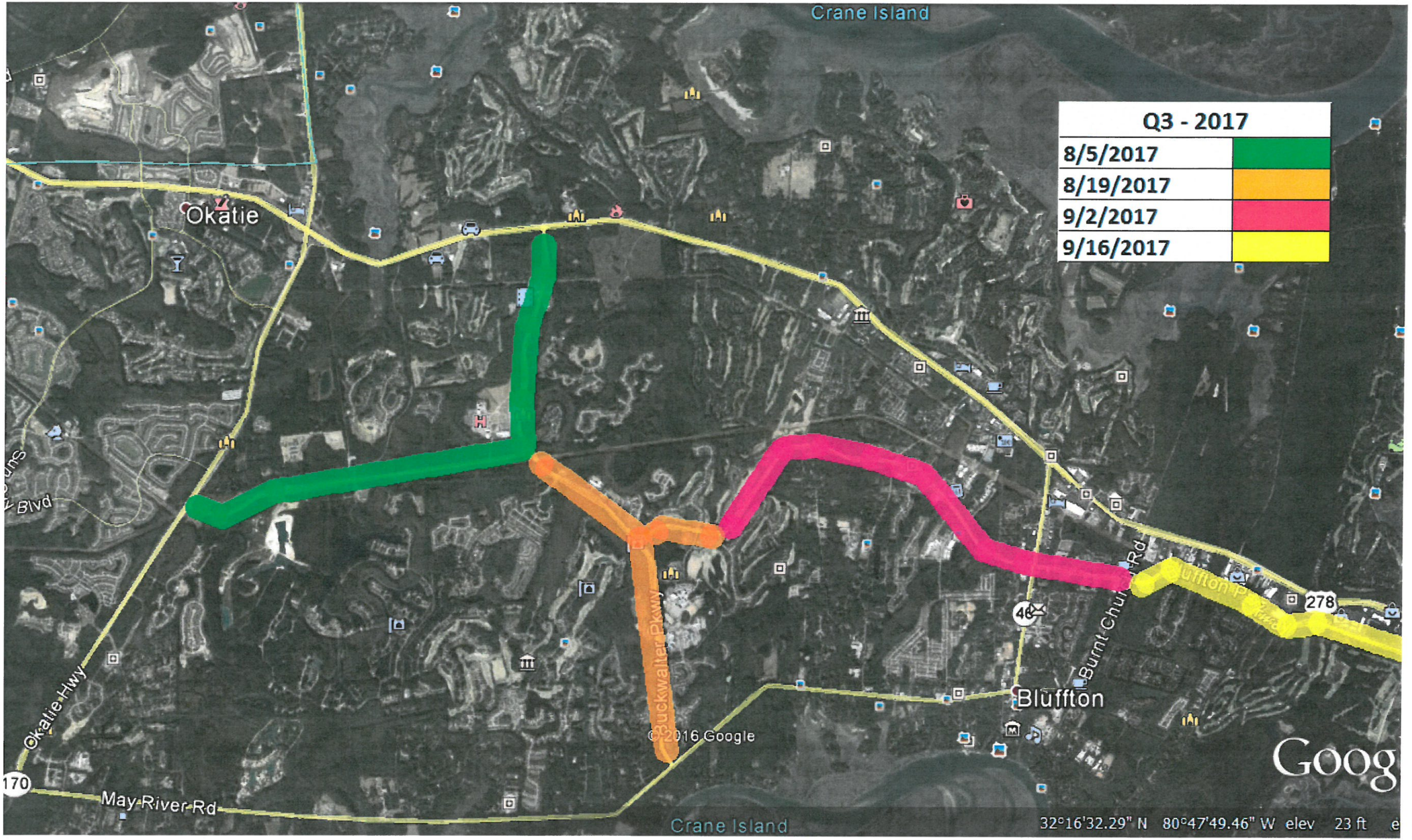
Come Visit us for the Holidays!
We have the finest selection of Frasier Firs, Wreaths, Roping **& Poinsettias.**

Job Ref.	Beaufort County Sweeping 170-46
Total	$2,870.00

Please detach and return with payment. PAYMENT DUE UPON RECEIPT. Thank you!

Job Ref.	Beaufort County Sweeping 170-46		Account No.	20515	Invoice No	333455
Description		Date	Quantity	Unit	Unit Price	Ext Price
December 2017 Monthly Maintenance		12/12/2017	1	LS	2,870.00	2,870.00

Subtotal	$2,870.00
Taxable	
Tax	
Total	$2,870.00
Payment Due Upon Receipt	


Crane Island
Okatie
Q3 - 2017
8/5/2017
8/19/2017
9/2/2017
9/16/2017
Okatie Hwy
May River Rd
170
Buckwalter Pkwy
Bluffton
Burnt Church Rd
278
© 2016 Google
Crane Island
32°16'32.29" N 80°47'49.46" W elev 23 ft

Final *Warren, 3-18-16*

STATE OF SOUTH CAROLINA)
) MEMORANDUM OF UNDERSTANDING
COUNTY OF BEAUFORT)

Final, March 18, 2016

This Memorandum of Understanding (the "Memorandum") is entered into by and between Beaufort County (hereinafter referred to as the "County") and the University of South Carolina Beaufort (hereinafter referred to as "USCB") regarding Water Quality Monitoring Services (hereinafter referred to as "monitoring services.")

WHEREAS, USCB operates and manages a laboratory dedicated to assessing the water quality of the Lowcountry; and

WHEREAS, the County, in pursuit of its mission to protect our water resources and implement monitoring recommended by the Stormwater Management Plan and restoration initiatives, recognized the inherent value in USCB's offer to partner with the County and provide monitoring services; and

WHEREAS, the County may enter into additional Memoranda of Understanding with other government bodies and that services provided by USCB may be to the benefit of those other government bodies and funded by the County via this MOU, and

WHEREAS, the original agreement entered into July 23, 2013 requires updating to properly reflect changing monitoring needs by the County and changing water quality monitoring capabilities by USCB; and

WHEREAS, the County and USCB, in order to efficiently analyze and monitor the water quality of the Lowcountry, hereby agree to the following terms and conditions;

NOW, THEREFORE, for and in consideration of the mutual promises, undertakings and covenants set forth herein, the receipt and sufficiency of which is acknowledged and affirmed by the County and USCB, the parties hereto agree as follows:

1. **Governing Document**

   It is the intent of the parties that this Memorandum shall supersede any other agreements entered between the County and USCB regarding monitoring services.

2. **USCB**

   a. USCB shall continue to work to attain SC DHEC certification for all certifiable analyses reflected in the assay list herein (see Attachment 1, page 7). In the event SC DHEC certification for a water quality parameter(s) is not obtained by the time the County is required to be MS4 compliant, USCB shall be responsible to utilize a SC certified laboratory to conduct the analysis.

   b. USCB shall continue to operate and manage a laboratory able to receive and analyze the County's samples during normal hours of operation of 8:00 AM to 4:00 PM, Monday

through Friday. If extenuating circumstances occur that require certain services, such as sample receipt, outside of normal operating hours, the County should inform Laboratory personnel in advance so that accommodations can be made. Samples requiring analysis for BOD5, Chlorophyll-a and/or microbiology, must be received by the Laboratory no later than noon on Thursday.

c. All analytical results will be reported within 30 days of sample receipt. A preliminary report of completed results prior to 30 days can be issued to the County in the event of illicit discharge tracking, time sensitive projects, or when requested by the County and agreed upon by both parties. Analytical results for microbiological parameters are typically available 48 hours after sample receipt and can be conveyed to the County thereafter. Analytical results will be conveyed to the County via email, unless otherwise requested. Additional costs may be incurred for customized reporting and/or data interpretation.

d. USCB laboratory staff will make a good faith effort to be responsive to unforeseen water quality needs as they arise.

e. USCB will separately track monitoring services provided North and South of the Broad River and provide the County's accounting office with summary reports separating such services accordingly.

f. USCB will submit to the County a summary of all monitoring activity conducted on its behalf, as well as related expenses, on January 1st and July 1st each year.

g. USCB may provide laboratory services to entities other than the County, with just compensation for said services, provided doing so does not interfere with its monitoring responsibilities to the County.

3. **The County**

a. The County shall issue an annual purchase order for $120,000 to USCB for sampling and analytical services and other tasks as described in Attachment 1. Payments of $60,000 will be made bi-annually by the County on January 1st and July 1st each year.

b. Any funds in excess of those required for the County's services will be spent at the discretion of USCB laboratory staff on local water quality projects, laboratory operations including obtaining and maintaining State certifications, and equipment upgrades, replacements, and service contracts.

c. Prior to any sampling and analysis by USCB, an "Analytical Water Quality Service Request" form (see Attachment 2) must be completed to ensure a mutual understanding of

requested services. Any modification to the requested services will require the completion of a new "Analytical Water Quality Service Request" form.

4. **General Requirements of the Agreement**

   a. The parties hereto intend that no master/servant, employer/employee, or principal/agent relationship will be created by this Agreement. Nothing contained herein creates any relationship between the County and USCB other than that which is expressly stated herein. The County is interested only in the results to be achieved under this Agreement, and the conduct and control of the agents and employees of USCB and the methods utilized by USCB in fulfilling its obligations hereunder shall lie solely and exclusively with USCB, and its agents and employees shall not be considered agents or employees of the County for any purpose. No person employed by USCB shall have any benefits, status, or right of employment with the County.

   b. This Agreement shall not be modified unless such modification is made by mutual consent of both parties at any time in writing and signed by both the County and USCB.

   c. USCB may not assign this Agreement to another organization without the prior written approval of the County.

5. **Default Remedies**

   In the event USCB does not remedy such conditions that have been found in violation of this Agreement with 30 days after written notice to do so is given by the County, or if insufficient progress is being made toward the remedy within those 30 days, the County may use a portion, or all, of the allocated funds to remedy the conditions.

6. **Term**

   The term of this Memorandum of Understanding shall be from the date of execution for five (5) years. The Memorandum will be reviewed by the County and USCB annually to determine funding availability for the upcoming year, as well as changes to the "Scope of Services" (see Attachment 1).

7. **Termination for Convenience**

   a. In addition to any other rights to termination set forth in this Memorandum, in the event both parties mutually agree to terminate this Agreement prior to the expiration of the Term, the County shall be entitled to a pro-rata refund of the money set out in Paragraph 3a above.

b. The County shall have the right to terminate this Agreement for convenience upon 60 days written notice to USCB. In the event the County terminates this Agreement for convenience, the County shall pay the Laboratory for services performed.

IN WITNESS WHEREOF, the parties hereto have affixed their signature hereto the date first written hereinabove.

COUNTY OF BEAUFORT

By_____
Gary Kubic
County Administrator

Date 05-04-2016

Address:
Beaufort County
PO Drawer 1228
Beaufort, SC 29901

UNIVERSITY OF SOUTH CAROLINA BEAUFORT

By_____
Thomas A. Coggins
Director, Sponsored Awards Management

Date 4/27/16

Address:
Sponsored Awards Management
901 Sumter Street, 5th Floor
Columbia, SC 29208

Attachment 1

SCOPE OF SERVICES

The Scope of Services in the MOU between Beaufort County and USCB includes those activities specified in sections A and B below.

A. Sampling and Analysis Services

1. Field collection, *in situ* analysis, and laboratory-based analysis of water samples at locations and frequencies agreed upon by both parties and as reflected in the "Analytical Water Quality Service Request" form.

2. USCB shall be responsible for maintenance and repair of analytical equipment, purchasing laboratory supplies, and supplying qualified personnel to provide sampling and analytical services.

B. Stormwater Meeting Attendance, Input Into Monitoring Plan, and Annual Report Generation

1. USCB Laboratory staff shall attend monthly stormwater coordination meetings in person or via conference call, as workload allows.

2. USCB Laboratory staff shall participate in the development and routine update of the County's water quality monitoring plan.

3. USCB Laboratory staff shall provide an annual report comprised of cumulative analytical water quality data spanning a 12-month period. The report will provide analytical review and conclusions on the effectiveness of the County's monitoring program, as well as offer advice on modifications to the plan. The report is to be presented to the County within 60 days following the end of each 12-month monitoring period.

C. List of USCB Water Quality Laboratory Assays

1. A comprehensive list of assays currently conducted by the USCB laboratory is shown below. Should the County request an assay not among those in USCB's list of assays, USCB will attempt to find a laboratory capable of such analysis or at its discretion, develop the capability to perform the assay through the purchase of additional equipment and supplies and receipt of additional training, as needed. Both parties will evaluate each request beyond current laboratory capability and together, determine which party will be responsible for funding. The funding mechanism will be mutually

agreed upon and may come from the original funding supplied by the County (see paragraph 3a of the Agreement), additional County funds, or a combination of the two.

D. Laboratory Contacts:

Title	Name	Contact	
Laboratory Director:	Dr. Alan Warren	Office: Mobile:	843-208-8338 843-812-3887
Laboratory Manager:	Danielle Mickel	Office: Mobile:	843-208-8193 (WQL) 843-298-1612
Water Quality Analyst:	Michael Monday	Office: Mobile:	843-208-8193 (WQL) 843-263-7952

USCB Water Quality Laboratory Assays (effective February 2016)
IN-SITU PARAMETERS
Ambient Air and Water Temperature, Turbidity, pH, Dissolved Oxygen, Salinity, Conductivity, Depth
INORGANIC-NUTRIENTS
Ammonia Nitrogen (NH_3)
Total Kjeldahl Nitrogen (TKN)
Nitrate plus Nitrite Nitrogen (NOx)
Total Nitrogen (TN)
Total Phosphorus (TP)
METALS
Cadmium
Chromium
Copper
Iron
Lead
Manganese
Mercury
Nickel
Zinc
INORGANIC-DEMAND
Total Organic Carbon (TOC)
Biochemical Oxygen Demand (BOD5)
INORGANIC-RESIDUE
Total Suspended Solids
BIOLOGICAL
Chlorophyll-*a*
MICROBIOLOGICAL
Total Coliform + *E. coli*
Fecal Coliform
Enterococcus

Attachment 2

Analytical Water Quality Service Request

USCB Laboratory (SC Cert.# 07568001)
One University Blvd., Science & Technology Bldg. room 130, Bluffton, SC 29909
(843) 208-8193

Date of Request: _____

Project/Client Name: _____

Period of Project (Dates): Beginning _____ Ending _____

Water Quality Monitoring Plan (estimated sample number and frequency, person(s) collecting samples, sample drop-off days, etc.):

_____

_____

_____

_____

_____

_____

_____

_____

_____

Description of Project Area or Sampling Location (Lat/Long, County, State, Address): _____

_____

_____

_____

Additional Information/Comments: _____

_____

_____

Water Type:

= Fresh = Salt = Brackish = Chlorinated = Other _____

Requested Analyses

= In-Situ	= Microbial	= Nutrients	= Metals	= Solids	= Biota
= Air Temp	= Enterococcus	= TKN	= Cadmium	= TSS	= Chlorophyll-a
= Water Temp	= E. Coli/TC	= Ammonia	= Chromium		
= pH	= Fecal Coliform	= Nitrate/Nitrite	= Copper		
= DO		= Total-Phosphorus	= Iron		
= Salinity		= BOD5	= Lead		
= Conductivity		= TOC	= Manganese		
= Turbidity		= Total-Nitrogen	= Nickel		
			= Zinc		
			= Mercury		

Client/Contact Information:

Business/Individual Name: _____

Address: _____

Email: _____

Phone Number(s): Work: _____ Cell: _____

This document is a request for services and not a binding contract between USCB and the client. Any changes to this document by the client require reasonable notification of the laboratory before changes can take effect.

Signature (Client): _____

Signature (USCB): _____

WQL Form 2011