



BEAUFORT COUNTY STORMWATER UTILITY
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wstormwater@bcgov.net



January 28, 2019

South Carolina Department of Health and Environmental Control
Bureau of Water, Water Pollution Compliance Section
Attn: Brian Wisnewski
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 12/01/2017 to 12/01/2018.

Dear Mr. Brian Wisnewski,

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 12/01/2017 to 12/01/2018 annual report.

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 we include our SWMP and Monitoring plan, as well as printouts from our various databases.

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: John Weaver, Interim County Administrator
MS4 Coordinator
file

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

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Permit Coverage #SCR 030000 **Reporting Period:** 12/01/2017-12/01/2018

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: John Weaver **Title:** Interim County Administrator

Telephone Number: 843-255-2026 **E-mail Address:** Jweaver@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

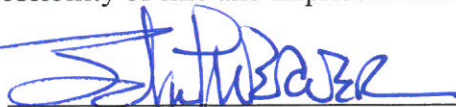
Telephone Number: 843-255-2805 **E-mail Address:** Elarson@bcgov.net

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:

1/28/2019

(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? 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.? 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 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 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 Research/Development Implementation

4. Has the plan been submitted to the Department?

Yes No, target date for submission: This update includes the additional TMDLs added as of a result of “permit by rule” change in 2017. SEE ATTACHED EXHIBIT B.

5. Has monitoring been conducted for the pollutant(s) of concern in the past reporting year?

Yes (SEE ATTACHED EXHIBIT A) No, target date to begin monitoring: _____

6. Are there any updates to the plan for this reporting year?

No Yes

An assessment of our monitoring plan after going “permit by rule” has been done, and we have made necessary upgrades to the plan. Implementation of the new monitoring plan will begin in January 2019. SEE ATTACHED EXHIBIT B.

7. Provide a brief description of the progress made on the plan in this reporting year and evaluate its effectiveness. After becoming “permit by rule” we have additional monitoring stations to our monitoring plan to ensure we are capturing MS4 stormwater contributions to area TMDLs. This new monitoring plan will go into effect January 2019. Results of 2018 sampling efforts are attached (EXHIBIT A). The County completed a capital improvement project at the end of June, 2018. This BMP redirects 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%. We also completed a special monitoring project for BMP effectiveness at a local shopping development found in EXHIBIT F.

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 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	CHECHESSEE 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	030502080608	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?
 X No Yes (explain):

2. Are there any proposed changes to the goals or BMP (best management practices) in the SWMP?
 X No Yes (explain):

3. Do you have adequate resources to implement your SWMP?

X Yes No (*explain*): The County is considered fully staffed within the Stormwater Regulatory division, to include support for the new monitoring plan going into effect in 2019.

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
<u>1/25/2018</u>	<u>OSHA Chemical Spill Response</u>
<u>3/30/2018</u>	<u>Rain Garden Management</u>
<u>4/30/2018</u>	<u>Erosion Prevention and Sediment Control</u>
<u>5/21/2018</u>	<u>IECA – Managing TMDL Risk</u>
<u>6/21/2018</u>	<u>Understanding River Buffers</u>
<u>6/22/2018</u>	<u>SCDHEC Residential Lot Permitting</u>
<u>7/19/2018</u>	<u>SESWA MS4 EPA Compliance</u>
<u>8/12/2018</u>	<u>BMP Selection to Improve Your Watershed</u>
<u>8/29/2018</u>	<u>Stormwater Pond Management</u>
<u>10/17/2018</u>	<u>Stormwater BMP Management</u>

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 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 No (submit a copy of any agreements that have not previously been sent to the Department)

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. Town of Bluffton and USC Beaufort agreements were submitted Dec. 1, 2017 with the Year 2 annual report.

4. Are all control measures as stringent as the permit requires?

Yes No (if no, provide an explanation) _____

5. Did the other entity agree in writing to implement the measure on your behalf?

Yes No (if no, provide an explanation) _____

6. Did the other entity implement the measure and agree to report on your behalf?

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?

Yes No (if no, provide an explanation) _____

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

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.

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.

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 C**.

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 4.
- 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 improper 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.
Non Sewer areas	The County has prioritized these areas due to consistently impacted shellfish beds located in these areas.	After the “permit by rule” in 2017, two areas outside of the UA were added to our jurisdiction. Water authority maps show both areas are near shellfish beds consistently impacted by closures. SEE ATTACHED MAPS.

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	<input type="checkbox"/> In Planning <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Evaluation	For Year 3, continue implementation.

Outfall Inventory Map Collection	Map outfalls for screening and inspection.	<input type="checkbox"/> In Planning <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Completed <input type="checkbox"/> 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 has 75% of all outfalls inventoried and mapped. By 12/01/2019 the County intends to have all outfalls inventoried and mapped.
Outfall Screening for Illicit Discharge	Develop a citizen reporting tool. Conduct dry weather screening of outfalls.	<input type="checkbox"/> In Planning <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Completed <input type="checkbox"/> Evaluation	The BC Connect app was designed to allow residents to communicate with the County regarding IDDE and complaints. Currently the app. is live with 443 active members, and we anticipate a more robust media outreach program to increase members to 3000-5000.
Prioritize Other potential Illicit discharges and non-stormwater discharges	Prioritize screening based on complaints, monitoring results, land use, and survey results.	<input type="checkbox"/> In Planning <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Completed <input type="checkbox"/> Evaluation	In Year 3 we outlined 2 hotspot areas based on proximity to consistently impacted shellfish beds and lack of sewer authority connections. SEE ATTACHED MAPS.
Education on IDDE	Educate the Public on IDDE	<input type="checkbox"/> In Planning <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Completed <input type="checkbox"/> Evaluation	Carolina Clear will continue to provide this MCM. SEE ATTACHED EXHIBIT D.
Enforcement	Establish authority to inspect and enforce	<input type="checkbox"/> In Planning <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Completed <input type="checkbox"/> 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 continued the use of MUNIS to track IDDE activities, and began tracking IDDE activities via the BC Connect app. In Year 4, we will continue the use of the app and MUNIS, and anticipate we will be upgrading to another software with expanded capabilities.
Monitoring Plan	Establish a program to track and sample POCs	<input type="checkbox"/> In Planning <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Completed <input type="checkbox"/> Evaluation	The County is ahead of schedule on implementation of the plan. In Year 3, we redeveloped the monitoring plan due to expanding the permitted area (Permit by Rule) in 2017, with implementation of the new plan in 2019. SEE ATTACHED EXHIBIT B.
Staff Training	Train applicable staff on IDDE	<input type="checkbox"/> In Planning <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Completed <input type="checkbox"/> 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. Additional training is planned for Year 4. Training will continue annually.

Asset Mapping	Map the storm sewer system and assess condition	<input type="checkbox"/> In Planning <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Completed <input type="checkbox"/> 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. 75% complete. SEE ATTACHED EXHIBIT K.
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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 participating in 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 density of complaints.

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 C.

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 4.
- 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 <i>(specific implementation dates)</i>
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.	<input type="checkbox"/> In Planning <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Completed <input type="checkbox"/> 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.	<input type="checkbox"/> In Planning <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Evaluation	Issue press release to notify all applicants of new permit procedures.
Enforcement	Continue to educate the contractors and public regarding construction site permitting and enforcement.	<input type="checkbox"/> In Planning <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Completed <input type="checkbox"/> Evaluation	Increase inspection and training for contractors. In Year 4, 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 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. The new database development was delayed in 2018 due to contracting issues with the vendor.

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 4.

** Based on the County’s permit requirements we have developed a data base to track new Stormwater permits which has assisted 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 <i>(specific implementation dates)</i>
Ordinance	Develop an ordinance, or other regulatory mechanism, adequate legal authorities to meet the objectives of the Post-Construction Site Runoff Controls program.	<input type="checkbox"/> In Planning <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Completed <input type="checkbox"/> 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 standards and are being maintained pursuant to the maintenance agreement.	<input type="checkbox"/> In Planning <input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Completed <input type="checkbox"/> Evaluation	The County has begun recording maintenance easements. Easements are also connected to the inspection data base to allow better tracking of annual inspections.
Enforcement	The County has authority to enter private property for the purpose of inspecting at reasonable times any facilities,	<input type="checkbox"/> In Planning <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Completed	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

	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.	<input type="checkbox"/> Evaluation	4, we will be upgrading 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.	<input type="checkbox"/> In Planning <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Completed <input type="checkbox"/> 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.
 Yes No In Progress (*explain*): A comprehensive list of County owned facilities was submitted in the 2017 Annual Report.
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 In Progress (*explain*): An evaluation of all facilities was completed by 12/1/2018. Follow up inspections will occur in Year 4.
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 had the opportunity to participate in OSHA Chemical Response training, with 30 getting their certifications.

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 <i>(specific implementation dates)</i>
SPPC Plans	Develop Spill Prevention plans for County Facilities	<input type="checkbox"/> In Planning <input type="checkbox"/> Ongoing <input type="checkbox"/> Completed <input checked="" type="checkbox"/> Evaluation	SPCC is a specific EPA program not entirely related to Stormwater and MS4.
Facilities SWPPP Development	Identify priority facilities and develop SWPPPs, SOPs, etc.	<input type="checkbox"/> In Planning <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Completed <input type="checkbox"/> 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 were completed by 12/1/2018. Follow up inspections will be completed again by 12/1/2019. SEE ATTACHED EXHIBIT H
Training	Provide training program for grounds maintenance, landscaping crews, and roadway and drainage staff.	<input type="checkbox"/> In Planning <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Completed <input type="checkbox"/> 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.	<input type="checkbox"/> In Planning <input checked="" type="checkbox"/> Ongoing <input type="checkbox"/> Completed <input type="checkbox"/> 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 continues to use a contract sweeper. SEE ATTACHED EXHIBIT G. The County purchased a sweeper and hired an operator to expand the program, and is keeping the contract sweeper on retainer through mid-2019.
Asset Management	Asset management of facilities and high priority areas	<input type="checkbox"/> In Planning <input type="checkbox"/> Ongoing <input type="checkbox"/> Completed <input checked="" type="checkbox"/> 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. Inspections identified areas of improvement. The County implemented a street sweeping plan.













2. Provide an evaluation of where the program needs improvement and explain any actions that will be taken to achieve objectives: Additional training will be designed particularly for the potential pollutants of each facility. 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 perform inspections and monitoring, as needed, to ensure compliance. This was completed before 12/1/2018. Additional monitoring at several 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.

Waterbodies North of the Broad

 County Boundary

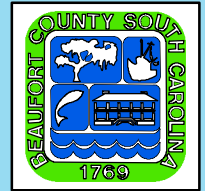
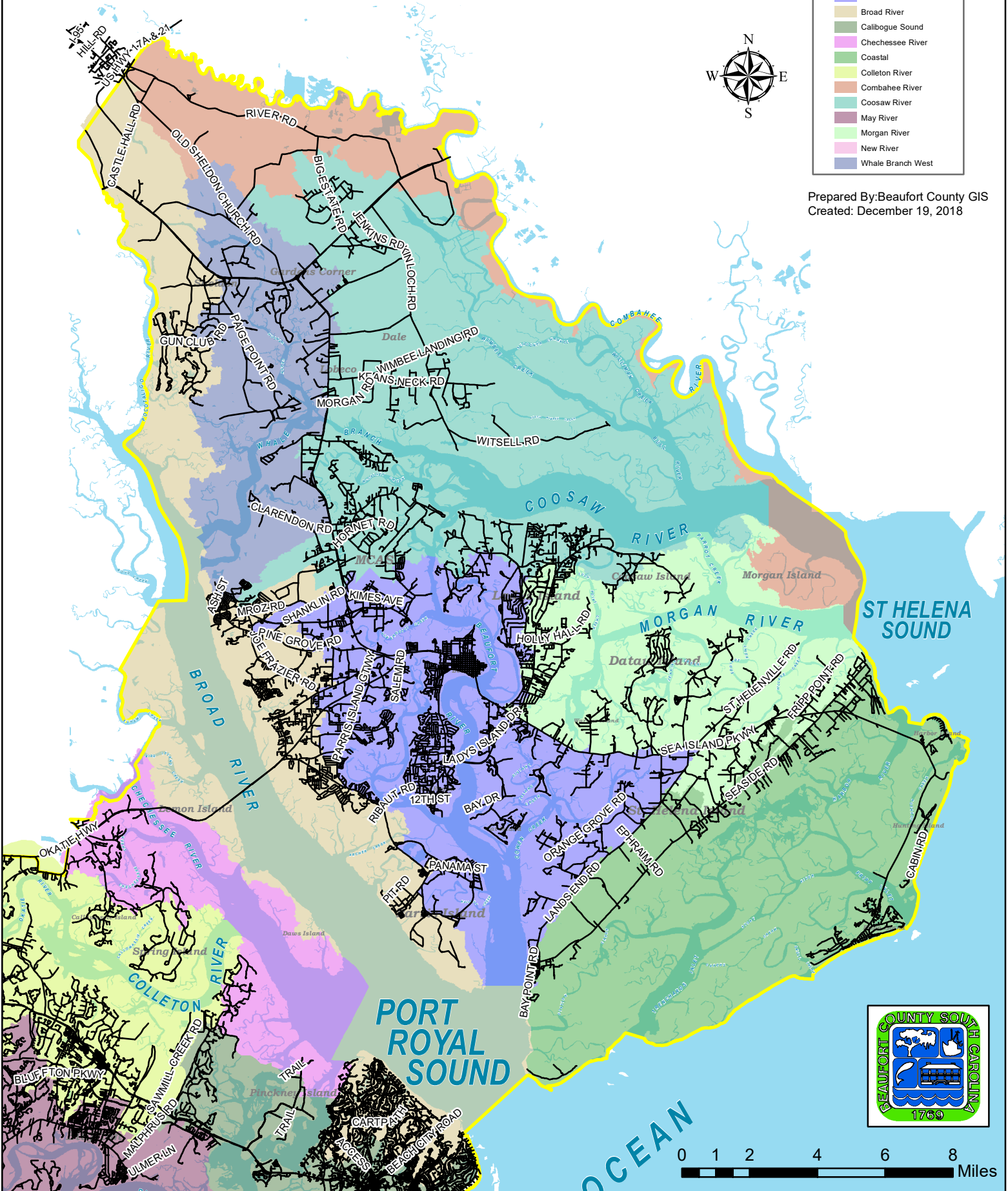
County Watersheds

WATERBODY

-  Beaufort River
-  Broad River
-  Calibogue Sound
-  Chechessee River
-  Coastal
-  Colleton River
-  Combahee River
-  Coosaw River
-  May River
-  Morgan River
-  New River
-  Whale Branch West



Prepared By: Beaufort County GIS
Created: December 19, 2018



County Boundary

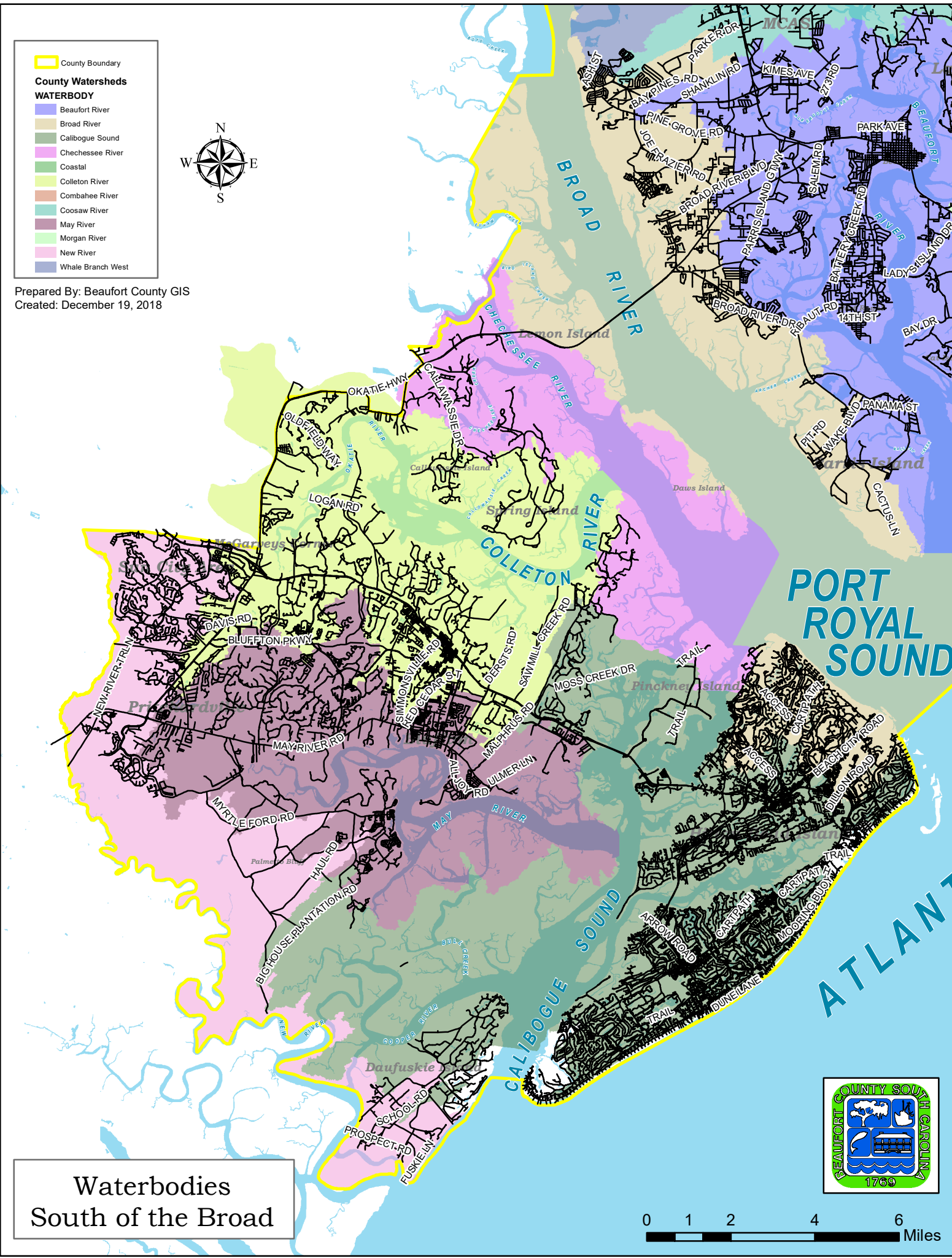
County Watersheds

WATERBODY

- Beaufort River
- Broad River
- Calibogue Sound
- Chechessee River
- Coastal
- Colleton River
- Combahee River
- Coosaw River
- May River
- Morgan River
- New River
- Whale Branch West



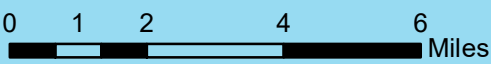
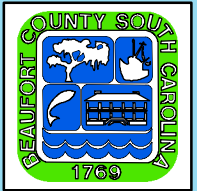
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Created: December 19, 2018



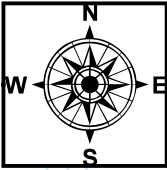
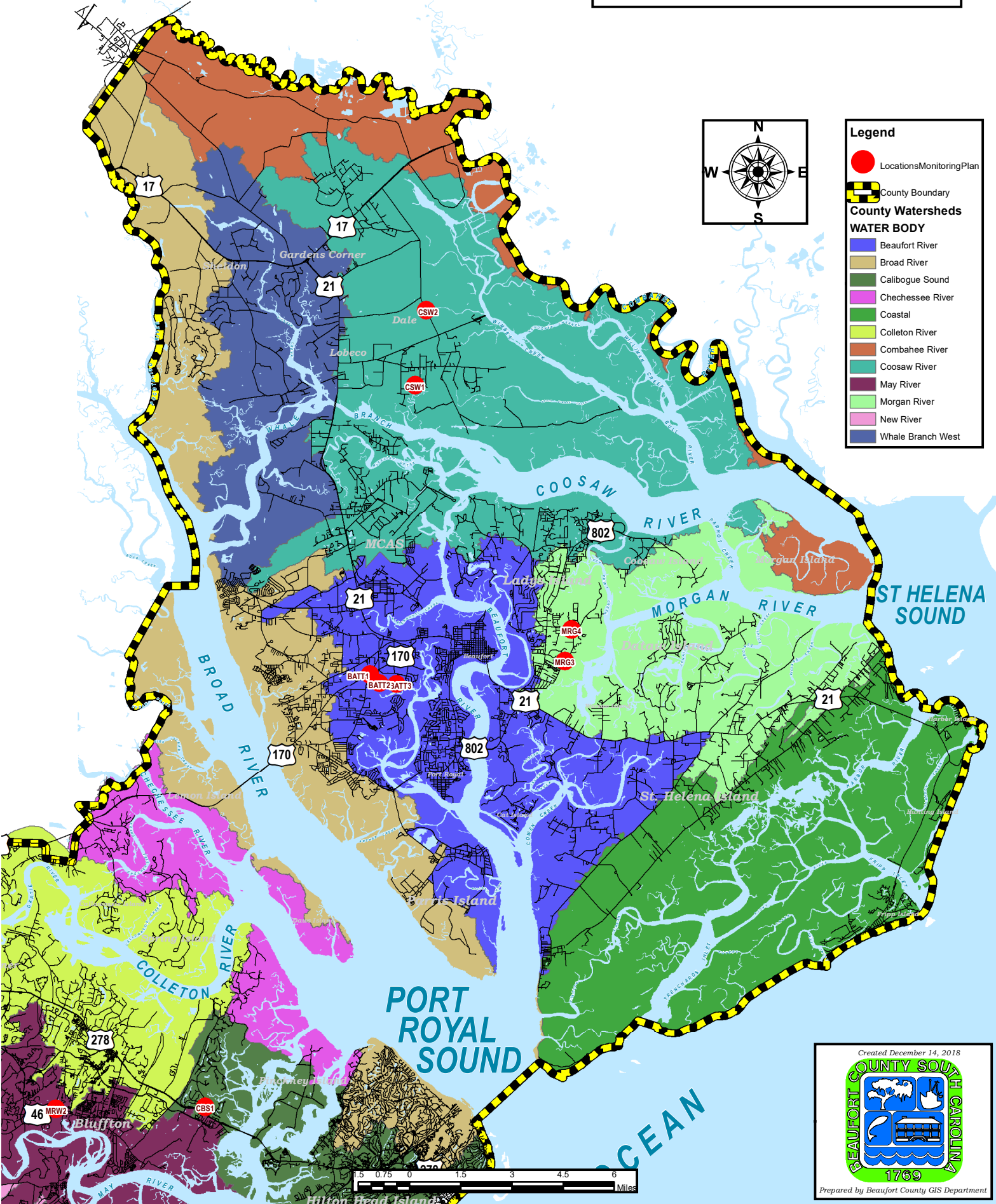
PORT ROYAL SOUND

ATLANTIC OCEAN

Waterbodies
South of the Broad



Monitoring Location Plan North of Broad



Legend

- LocationsMonitoringPlan
- 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



Created December 14, 2018

Prepared by Beaufort County GIS Department

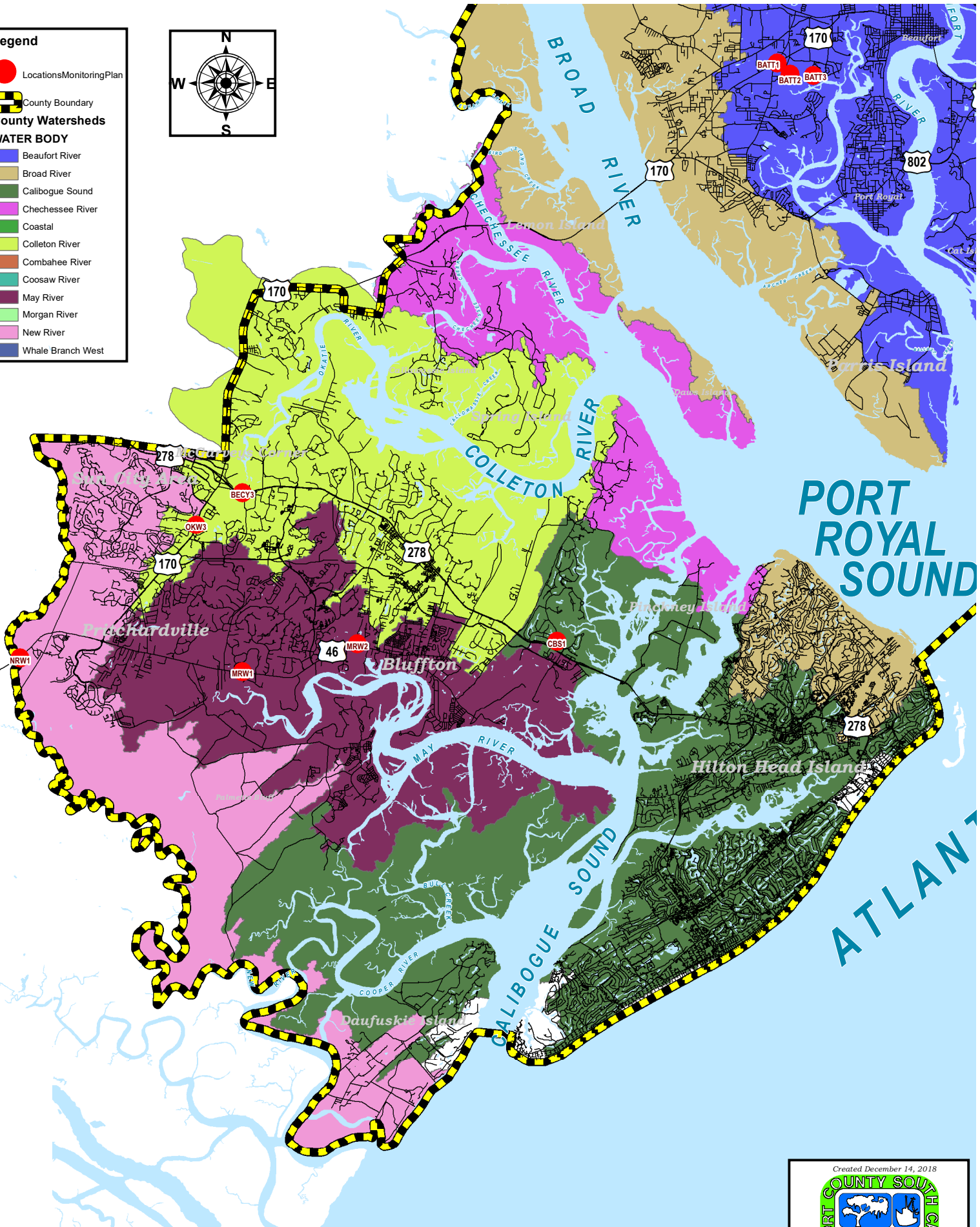
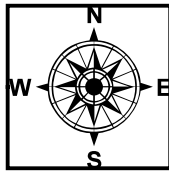
Legend

- LocationsMonitoringPlan
- ▬ County Boundary

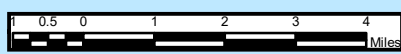
County Watersheds

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



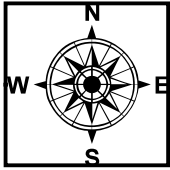
*Monitoring Location Plan
South of Broad*













Created December 14, 2018

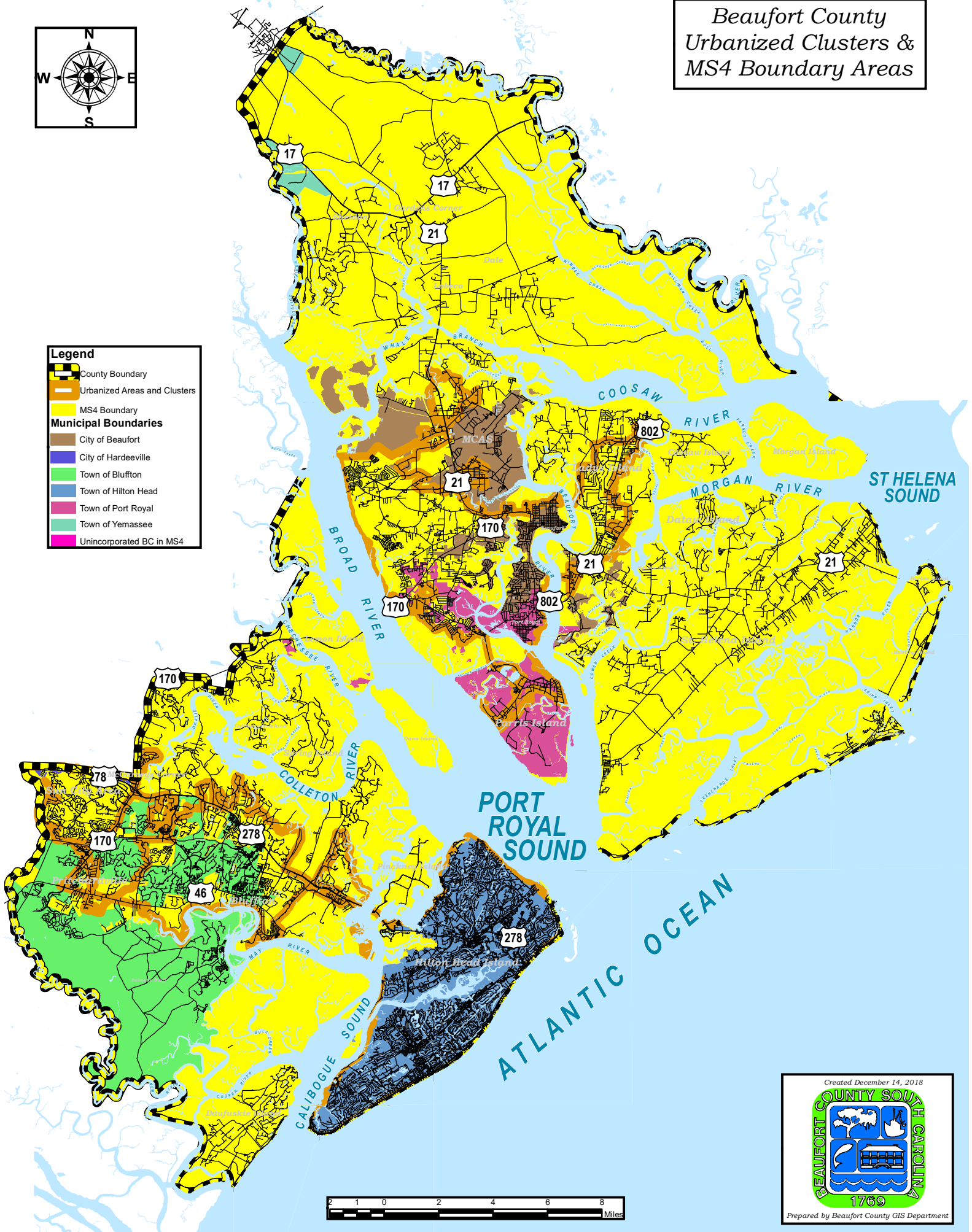
Prepared by Beaufort County GIS Department

Beaufort County Urbanized Clusters & MS4 Boundary Areas

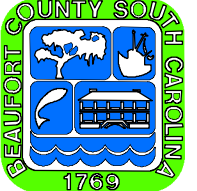


Legend

-  County Boundary
-  Urbanized Areas and Clusters
-  MS4 Boundary
- Municipal Boundaries**
-  City of Beaufort
-  City of Hardeeville
-  Town of Bluffton
-  Town of Hilton Head
-  Town of Port Royal
-  Town of Yemassee
-  Unincorporated BC in MS4

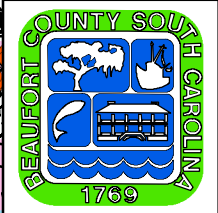
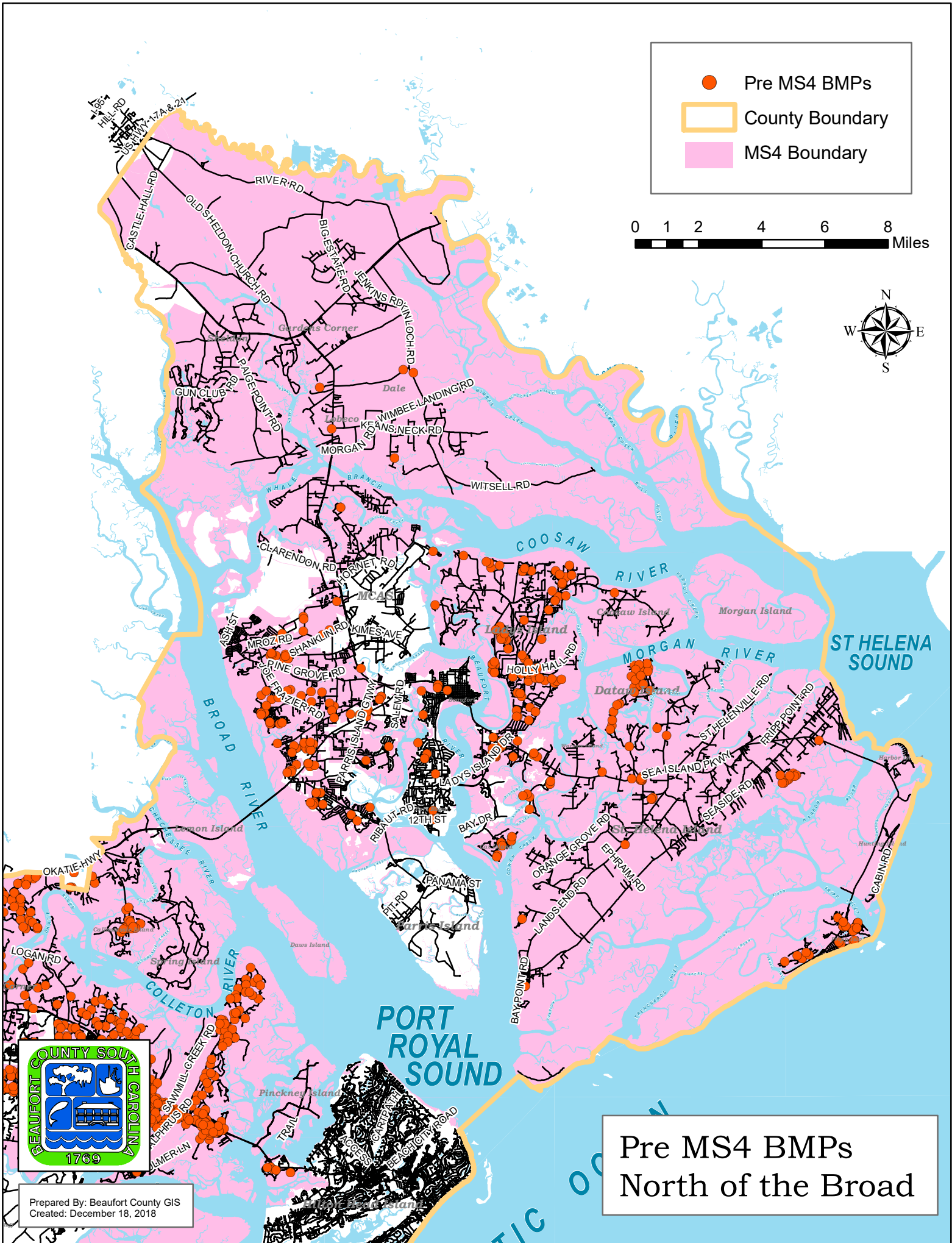
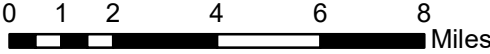


Created December 14, 2018



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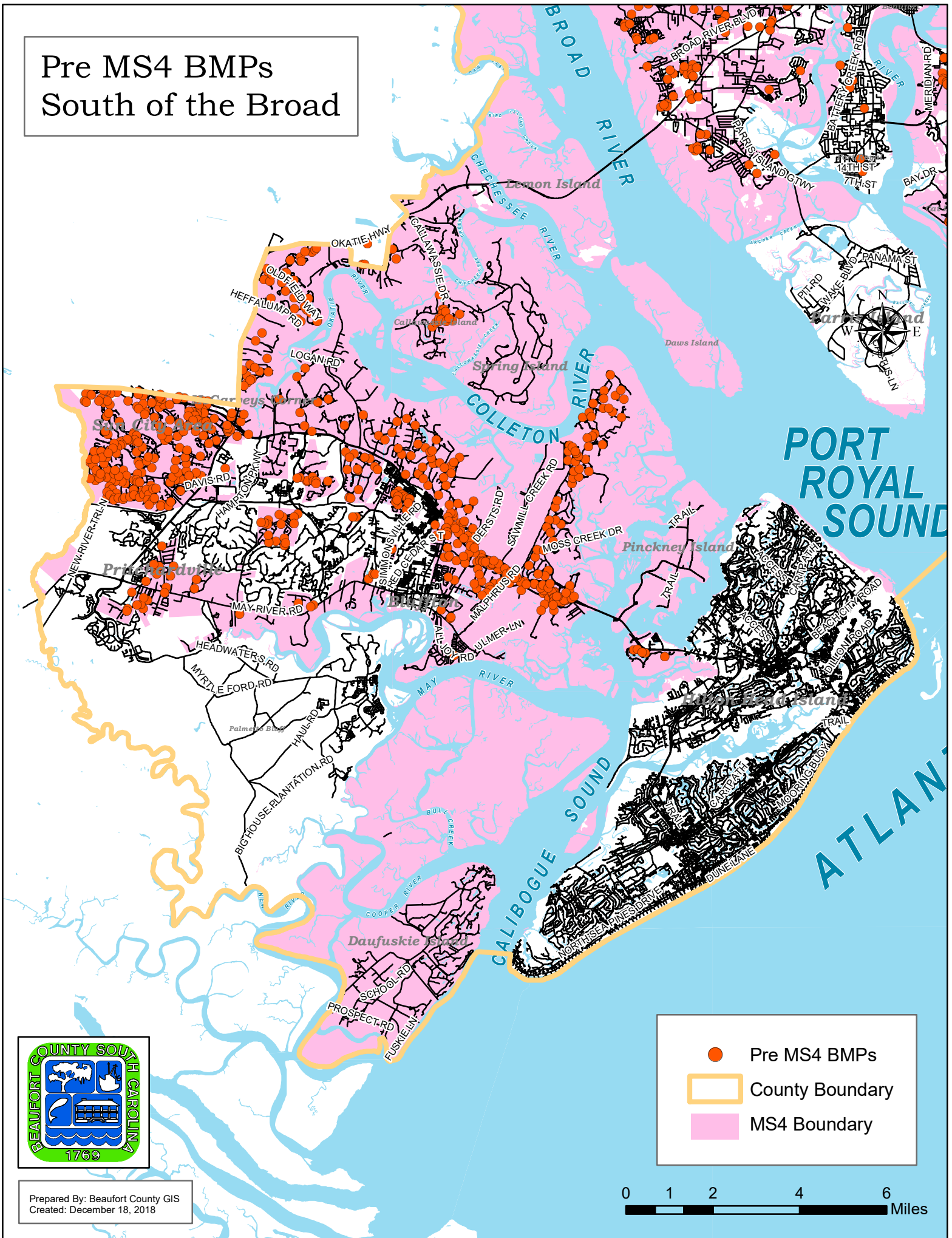
- Pre MS4 BMPs
- County Boundary
- MS4 Boundary



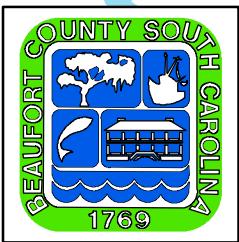
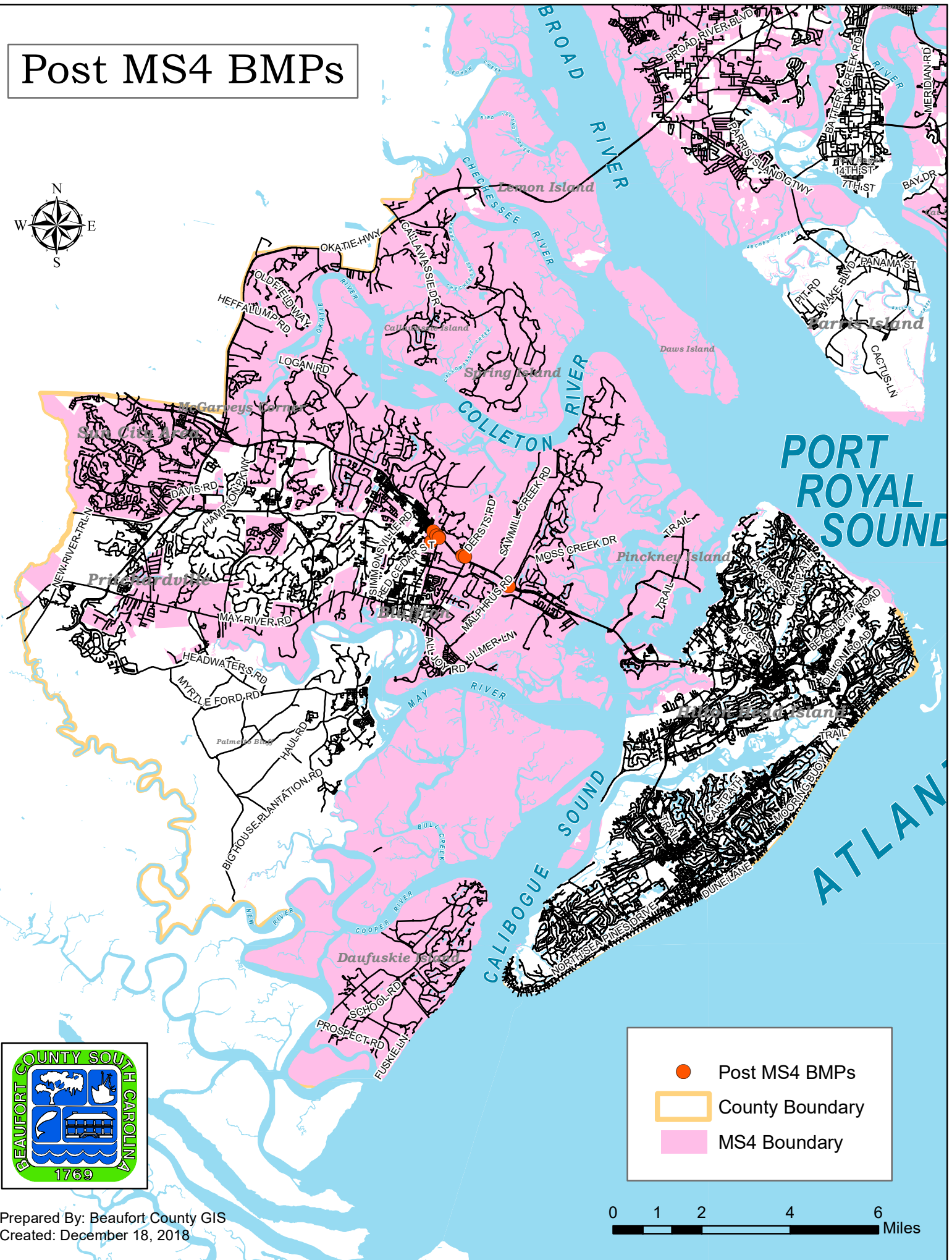
Prepared By: Beaufort County GIS
Created: December 18, 2018

Pre MS4 BMPs
North of the Broad

Pre MS4 BMPs South of the Broad



Post MS4 BMPs



Prepared By: Beaufort County GIS
Created: December 18, 2018

- Post MS4 BMPs
- ▭ County Boundary
- ▭ MS4 Boundary



For further detail see:
<http://webgis.bcgov.net/publicworks/index.html>

Sheldon Drainage

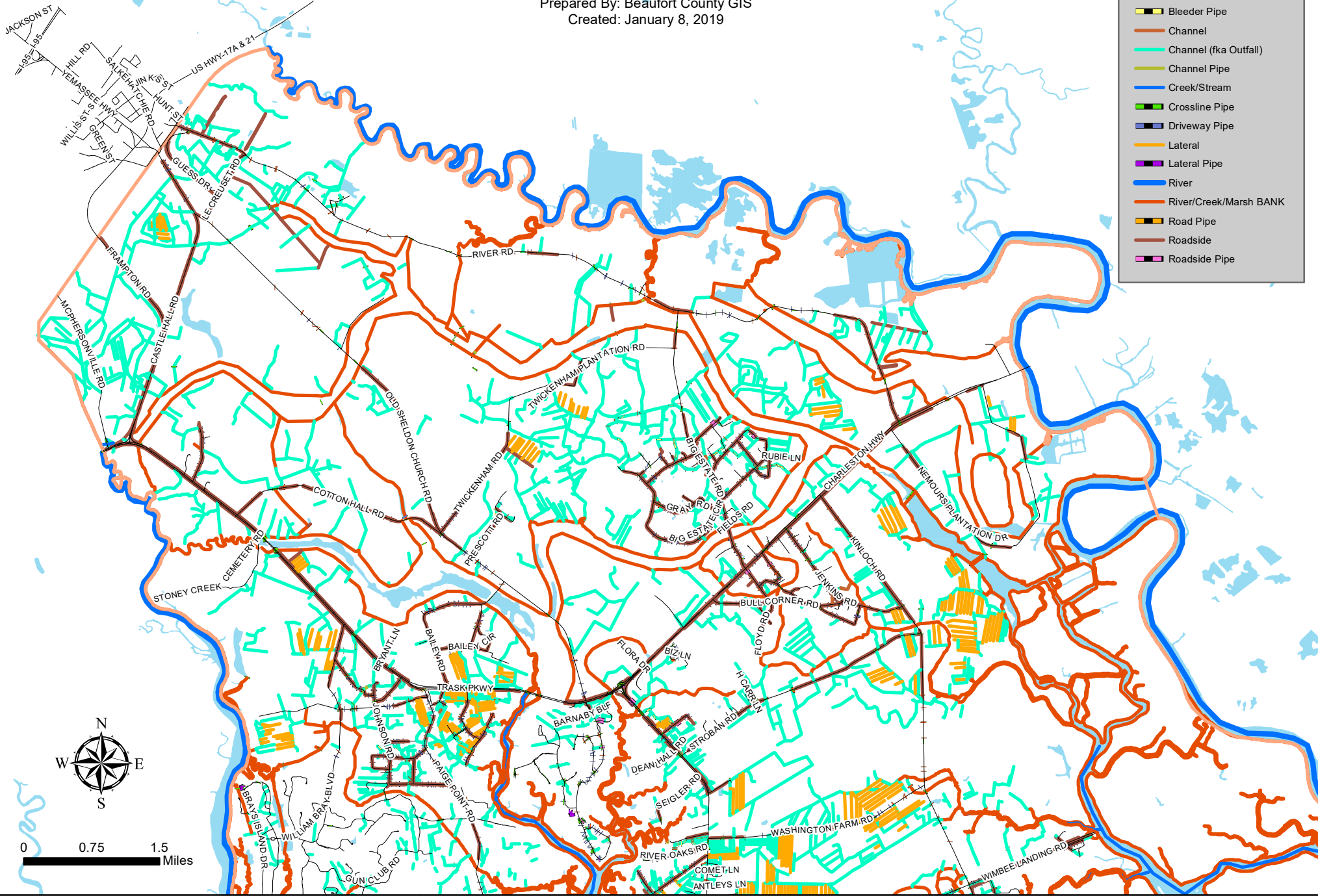
Prepared By: Beaufort County GIS
Created: January 8, 2019



— Streets
— County Boundary

Drainage TYPE

- Access Pipe
- Bleeder Pipe
- Channel
- Channel (fka Outfall)
- Channel Pipe
- Creek/Stream
- Crossline Pipe
- Driveway Pipe
- Lateral
- Lateral Pipe
- River
- River/Creek/Marsh BANK
- Road Pipe
- Roadside
- Roadside Pipe



For further detail see:
<http://webgis.bcgov.net/publicworks/index.html>

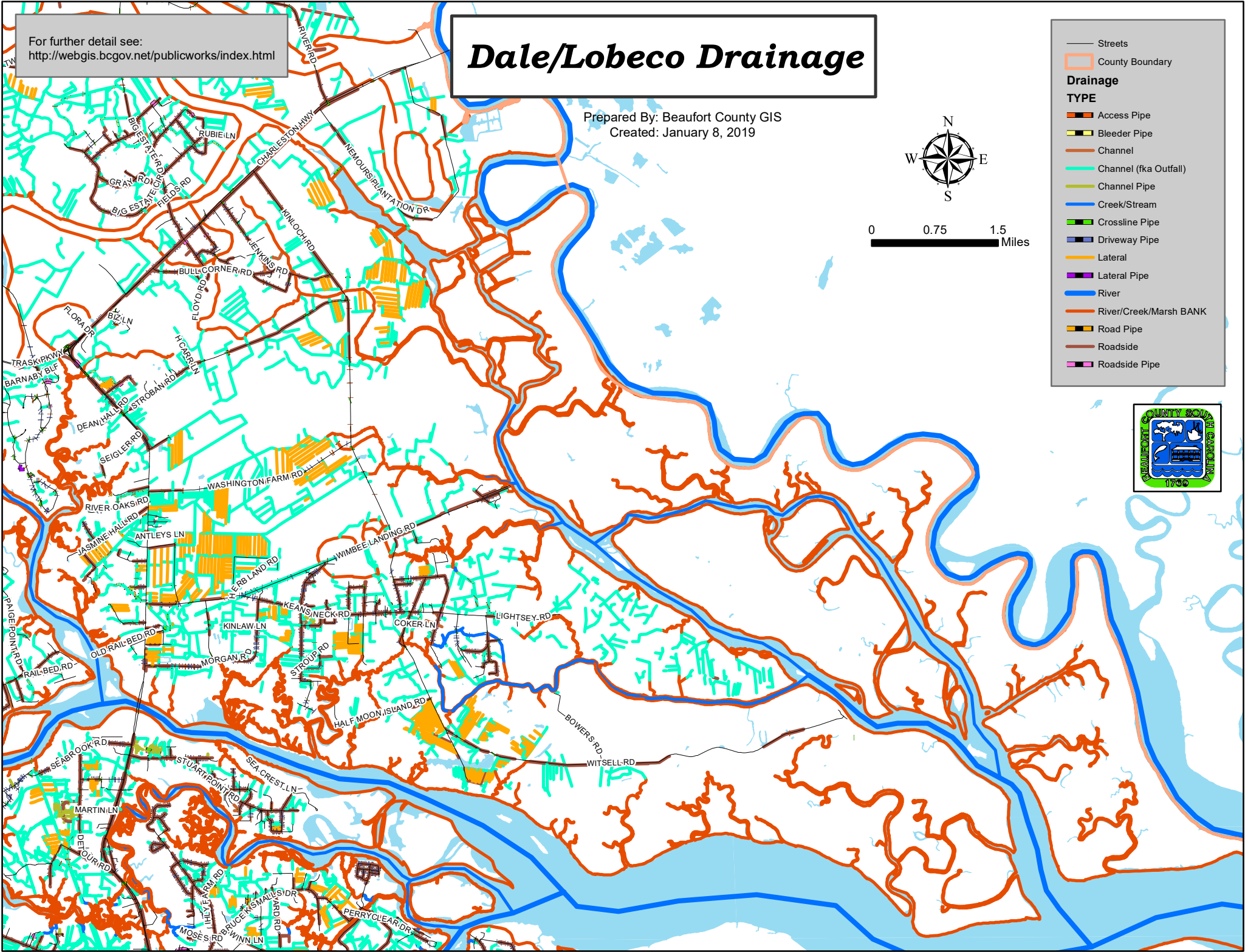
Dale/Lobeco Drainage

Prepared By: Beaufort County GIS
Created: January 8, 2019



0 0.75 1.5
Miles

- Streets
- County Boundary
- Drainage TYPE**
- Access Pipe
- Bleeder Pipe
- Channel
- Channel (fka Outfall)
- Channel Pipe
- Creek/Stream
- Crossline Pipe
- Driveway Pipe
- Lateral
- Lateral Pipe
- River
- River/Creek/Marsh BANK
- Road Pipe
- Roadside
- Roadside Pipe



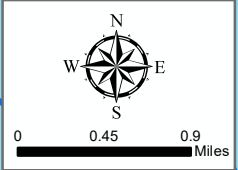
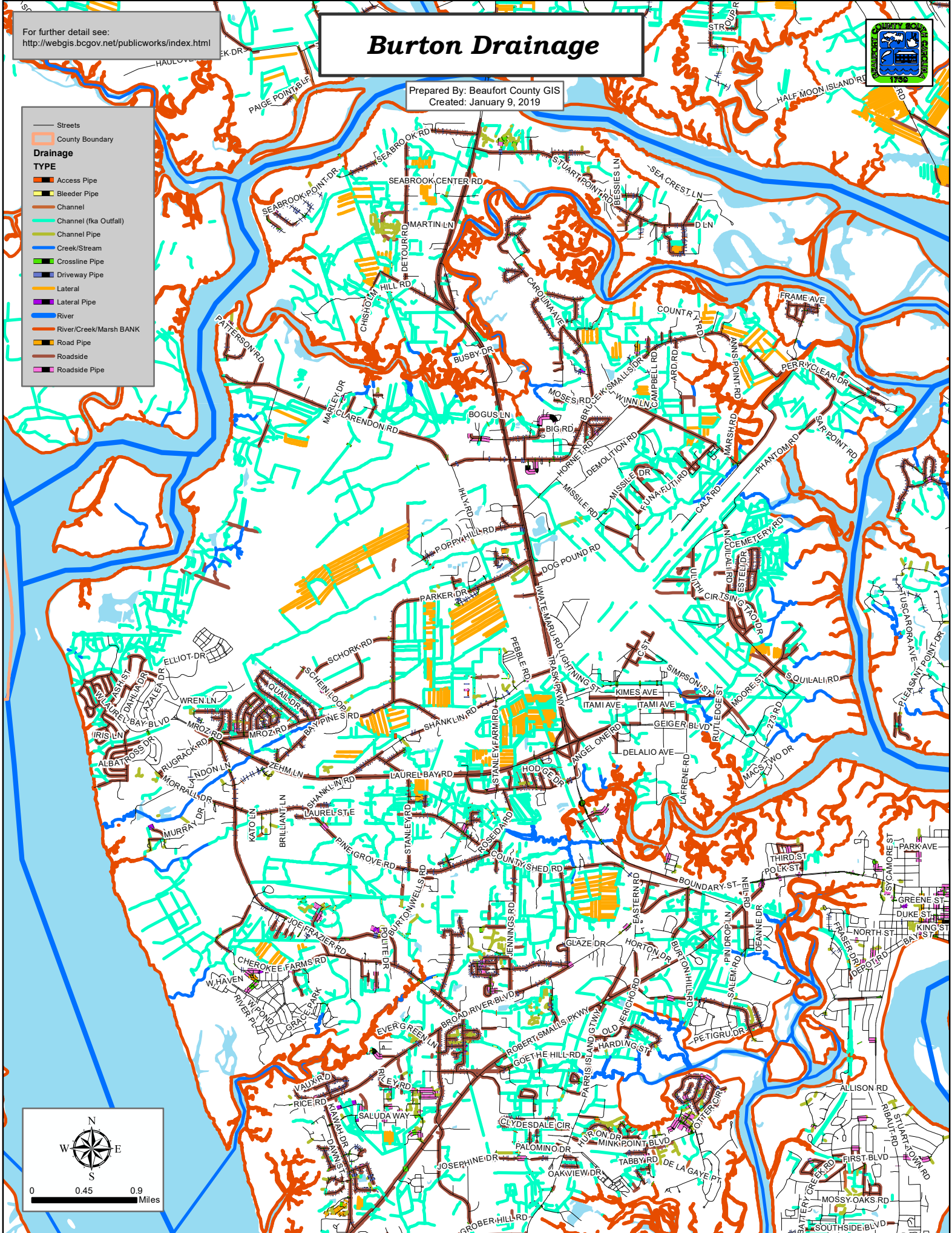
For further detail see:
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Burton Drainage

Prepared By: Beaufort County GIS
Created: January 9, 2019



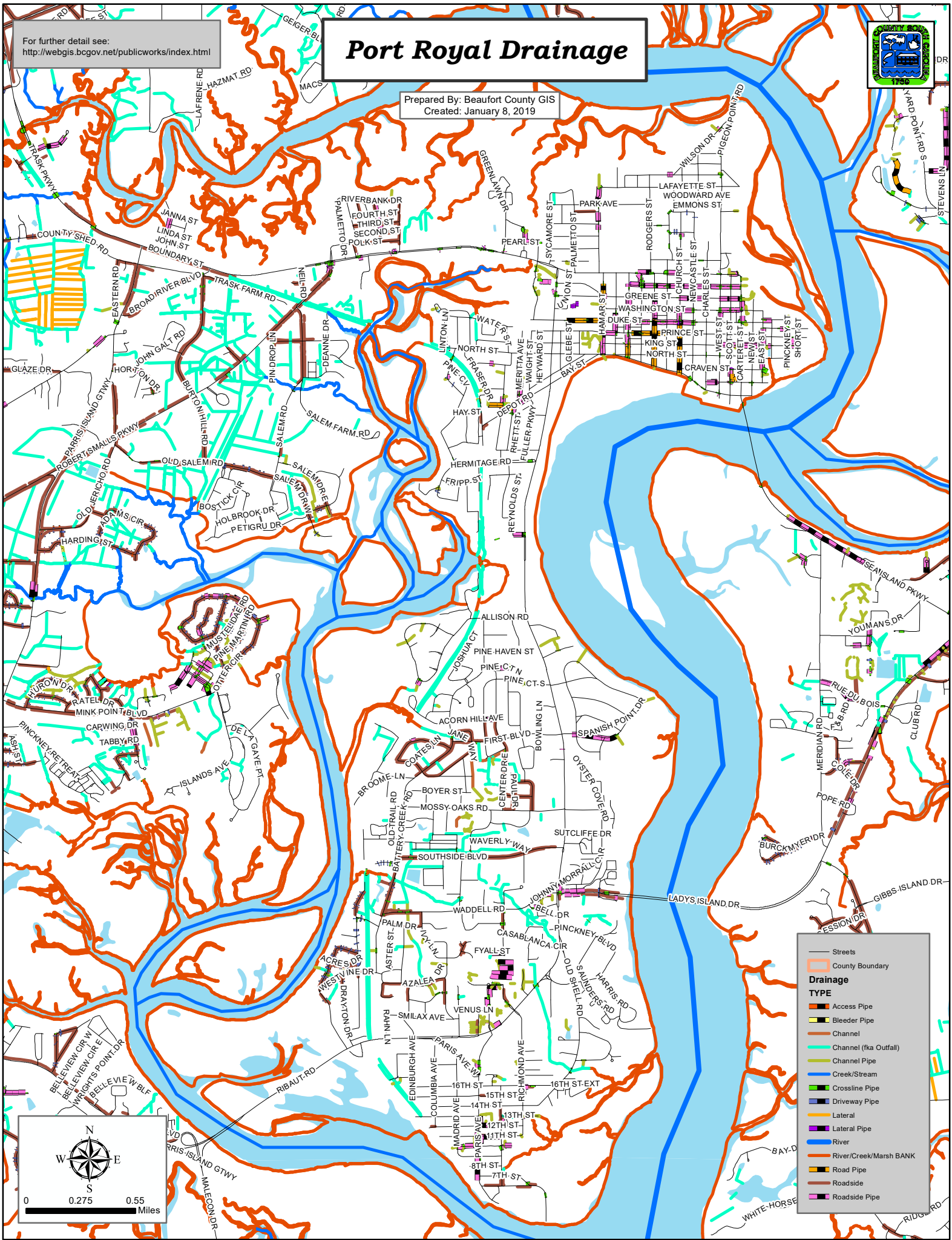
- Streets
- County Boundary
- Drainage TYPE**
- Access Pipe
- Bleeder Pipe
- Channel
- Channel (fka Outfall)
- Channel Pipe
- Creek/Stream
- Crossline Pipe
- Driveway Pipe
- Lateral
- Lateral Pipe
- River
- River/Creek/Marsh BANK
- Road Pipe
- Roadside
- Roadside Pipe



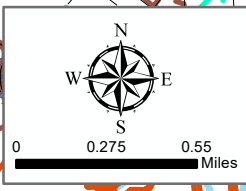
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Port Royal Drainage

Prepared By: Beaufort County GIS
Created: January 8, 2019



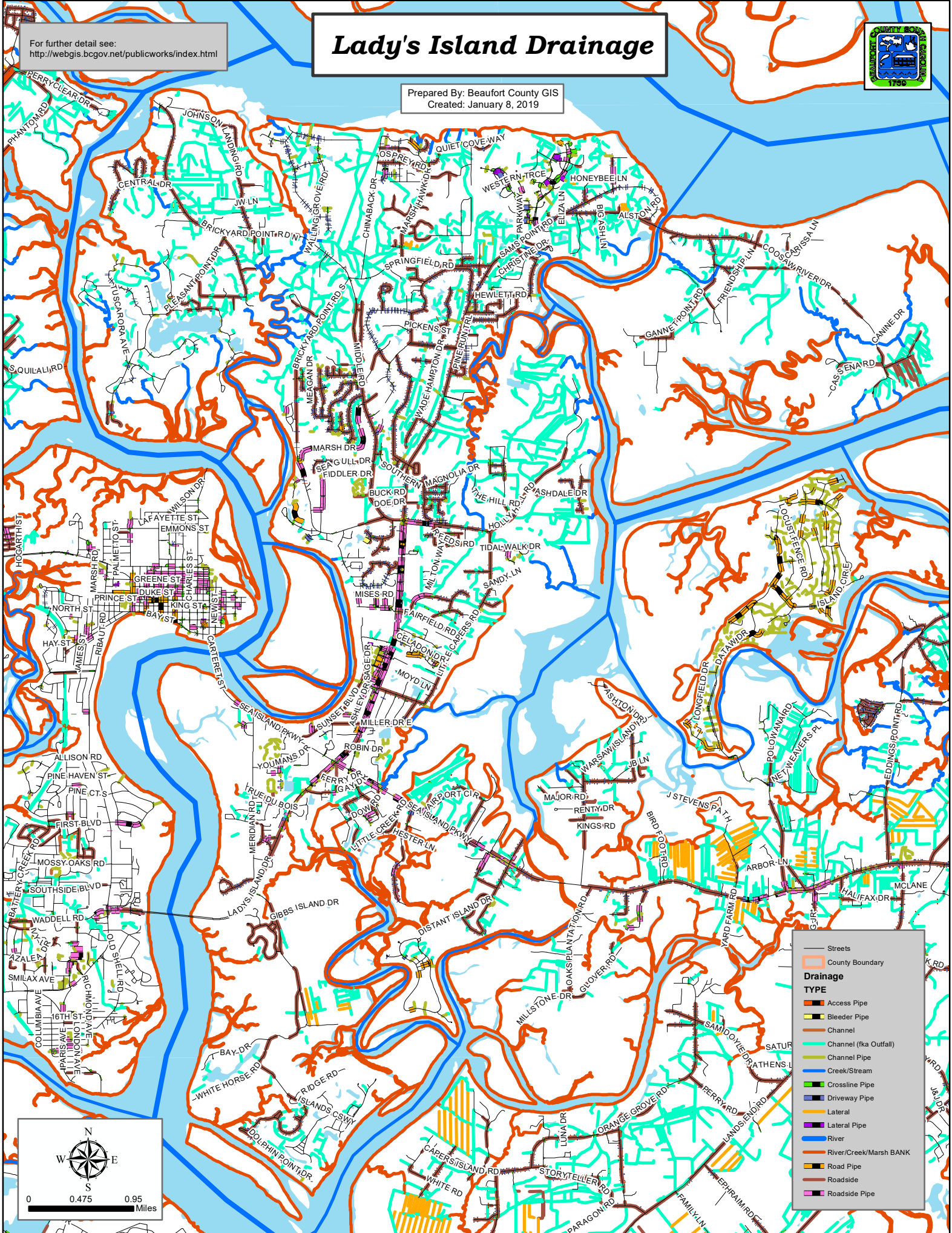
Drainage	
TYPE	
	Access Pipe
	Bleeder Pipe
	Channel
	Channel (fka Outfall)
	Channel Pipe
	Creek/Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	River/Creek/Marsh BANK
	Road Pipe
	Roadside
	Roadside Pipe



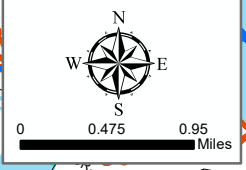
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Lady's Island Drainage

Prepared By: Beaufort County GIS
Created: January 8, 2019



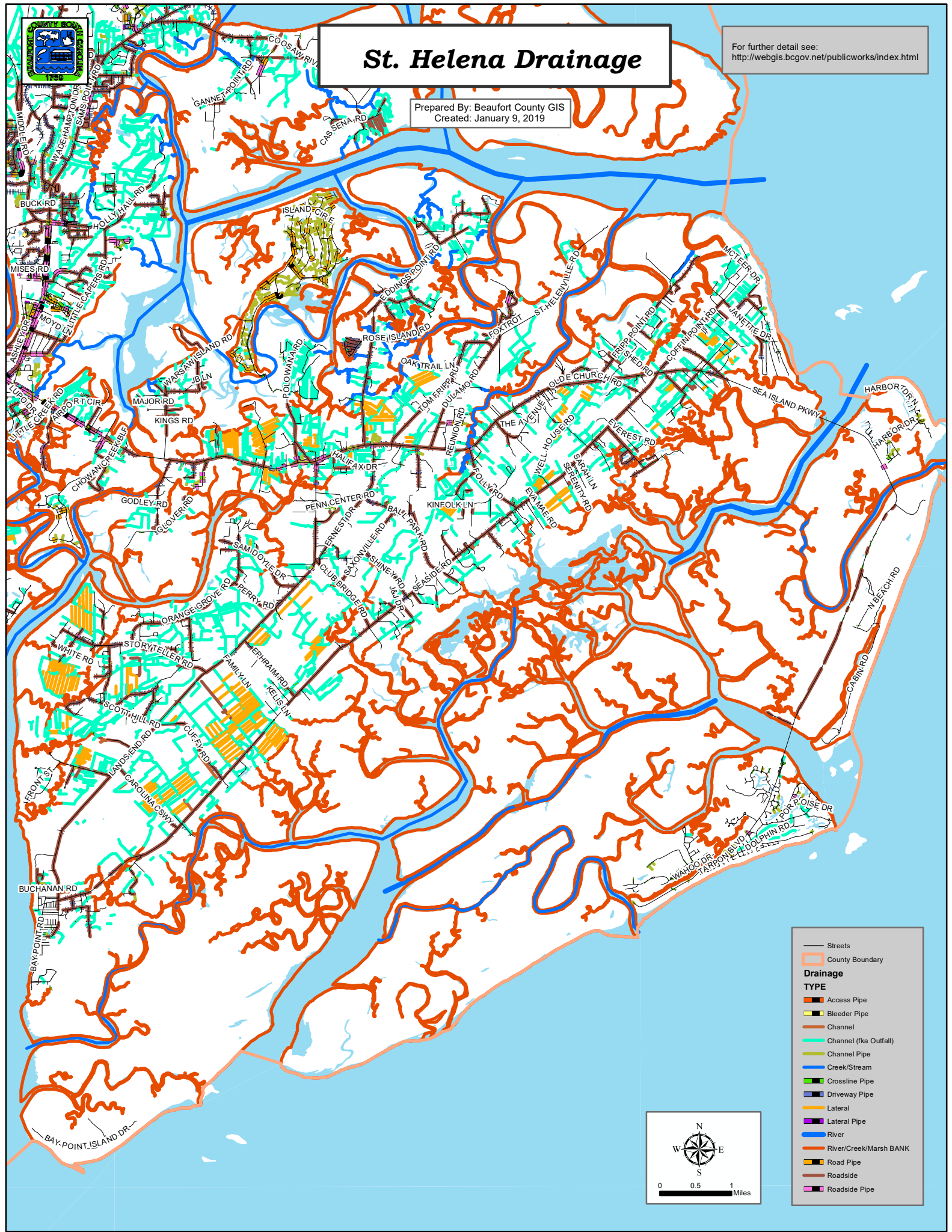
—	Streets
—	County Boundary
Drainage TYPE	
—	Access Pipe
—	Bleeder Pipe
—	Channel
—	Channel (fka Outfall)
—	Channel Pipe
—	Crossline Pipe
—	Driveway Pipe
—	Lateral
—	Lateral Pipe
—	River
—	River/Creek/Marsh BANK
—	Road Pipe
—	Roadside
—	Roadside Pipe



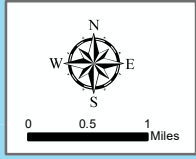
St. Helena Drainage

For further detail see:
<http://webgis.bcgov.net/publicworks/index.html>

Prepared By: Beaufort County GIS
Created: January 9, 2019



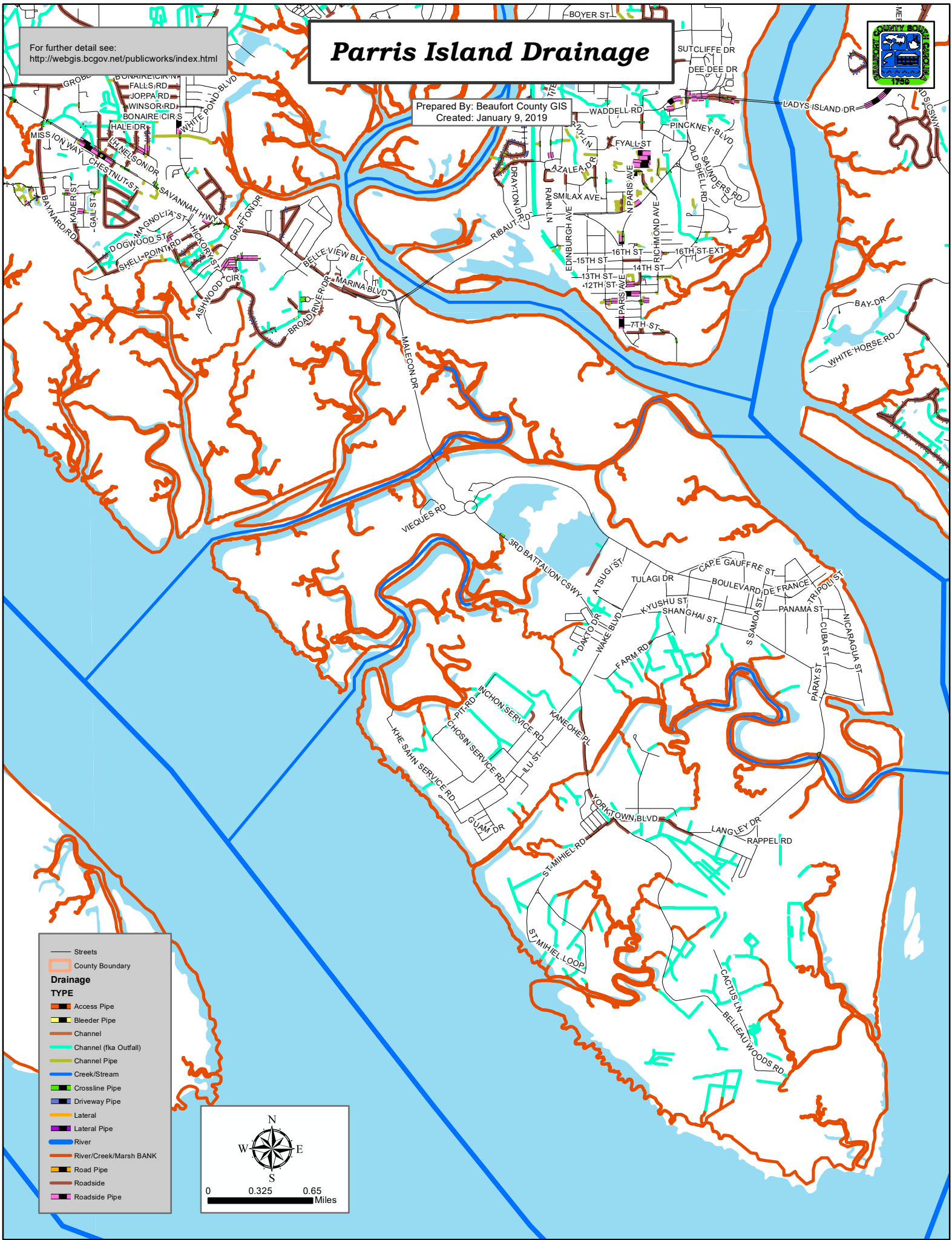
—	Streets
—	County Boundary
Drainage	
TYPE	
■	Access Pipe
■	Bleeder Pipe
—	Channel
—	Channel (fka Outfall)
—	Channel Pipe
—	Creek/Stream
■	Crossline Pipe
■	Driveway Pipe
—	Lateral
—	Lateral Pipe
—	River
—	River/Creek/Marsh BANK
■	Road Pipe
—	Roadside
■	Roadside Pipe



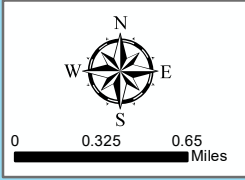
For further detail see:
<http://webgis.bcgov.net/publicworks/index.html>

Parris Island Drainage

Prepared By: Beaufort County GIS
Created: January 9, 2019



- Streets
- County Boundary
- Drainage TYPE**
- Access Pipe
- Bleeder Pipe
- Channel
- Channel (fka Outfall)
- Channel Pipe
- Creek/Stream
- Crossline Pipe
- Driveway Pipe
- Lateral
- Lateral Pipe
- River
- River/Creek/Marsh BANK
- Road Pipe
- Roadside
- Roadside Pipe



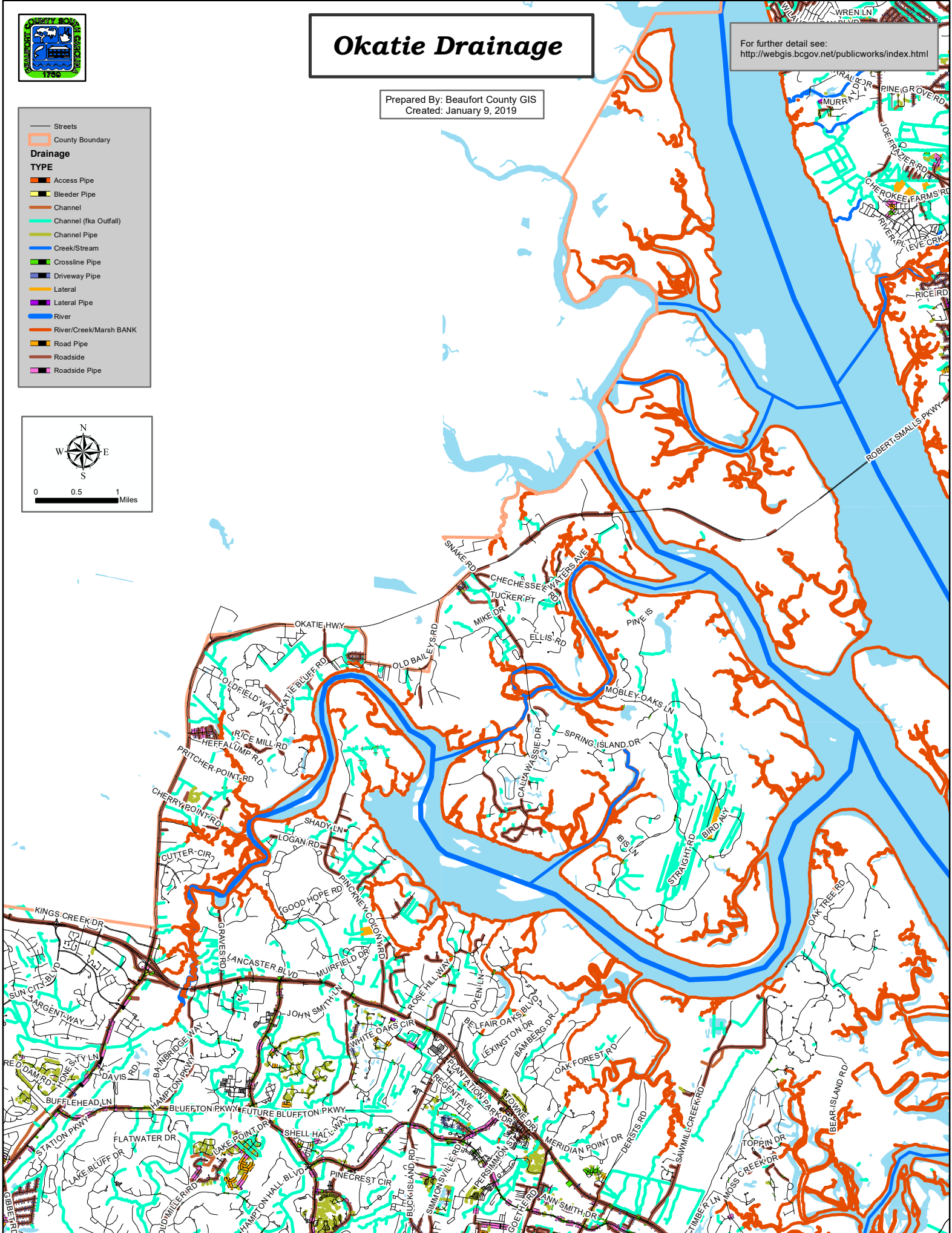
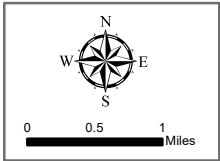


Okatie Drainage

For further detail see:
<http://webgis.bcgov.net/publicworks/index.html>

Prepared By: Beaufort County GIS
Created: January 9, 2019

- Streets
- County Boundary
- Drainage TYPE**
- Access Pipe
- Bleeder Pipe
- Channel
- Channel (fka Outfall)
- Channel Pipe
- Creek/Stream
- Crossline Pipe
- Driveway Pipe
- Lateral
- Lateral Pipe
- River
- River/Creek/Marsh BANK
- Road Pipe
- Roadside
- Roadside Pipe



Bluffton Drainage

Prepared By: Beaufort County GIS
Created: January 9, 2019

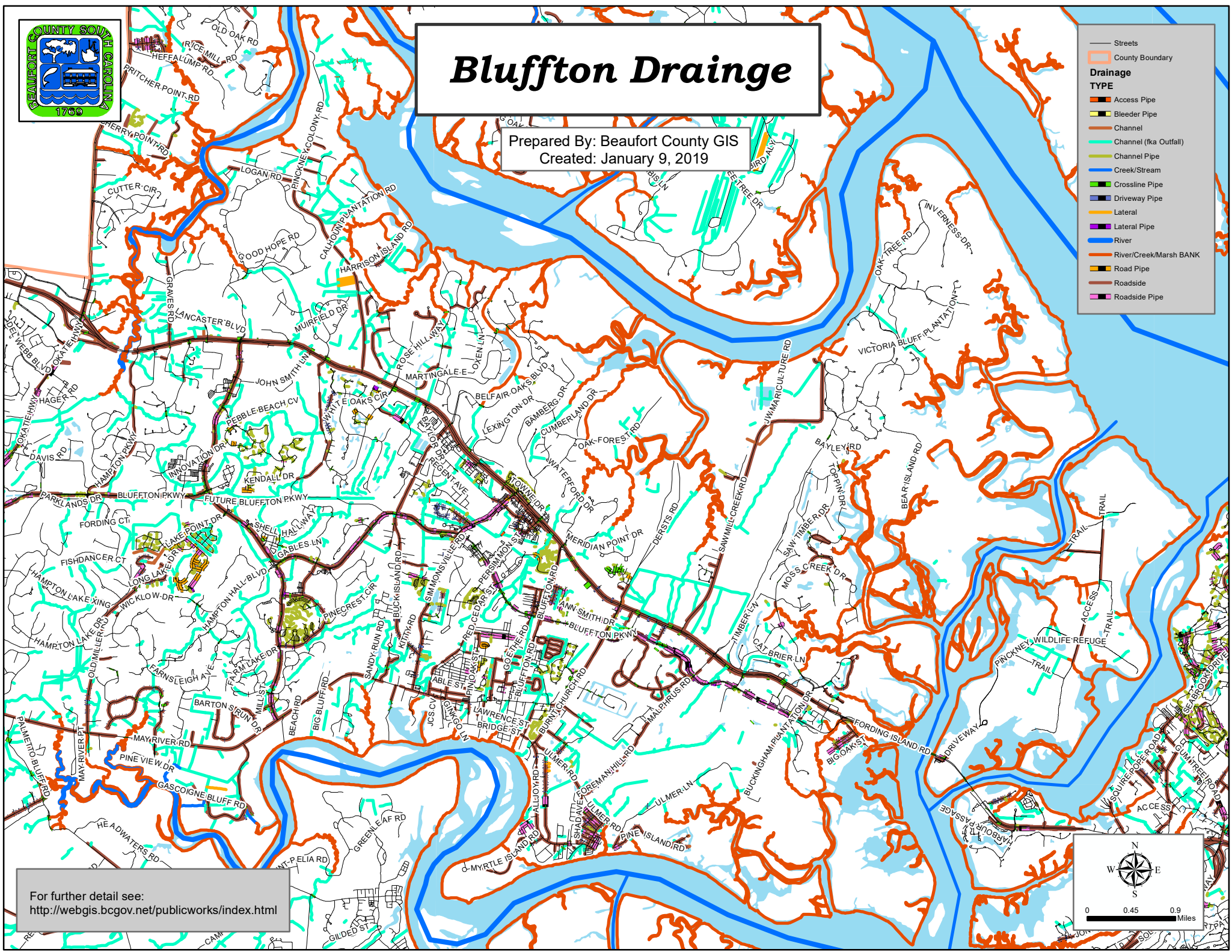
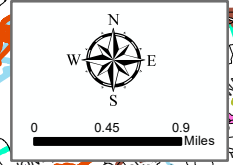


Streets
County Boundary

Drainage TYPE

- Access Pipe
- Bleeder Pipe
- Channel
- Channel (aka Outfall)
- Creek/Stream
- Crossline Pipe
- Driveway Pipe
- Lateral
- Lateral Pipe
- River
- River/Creek/Marsh BANK
- Road Pipe
- Roadside
- Roadside Pipe

For further detail see:
<http://webgis.bcgov.net/publicworks/index.html>

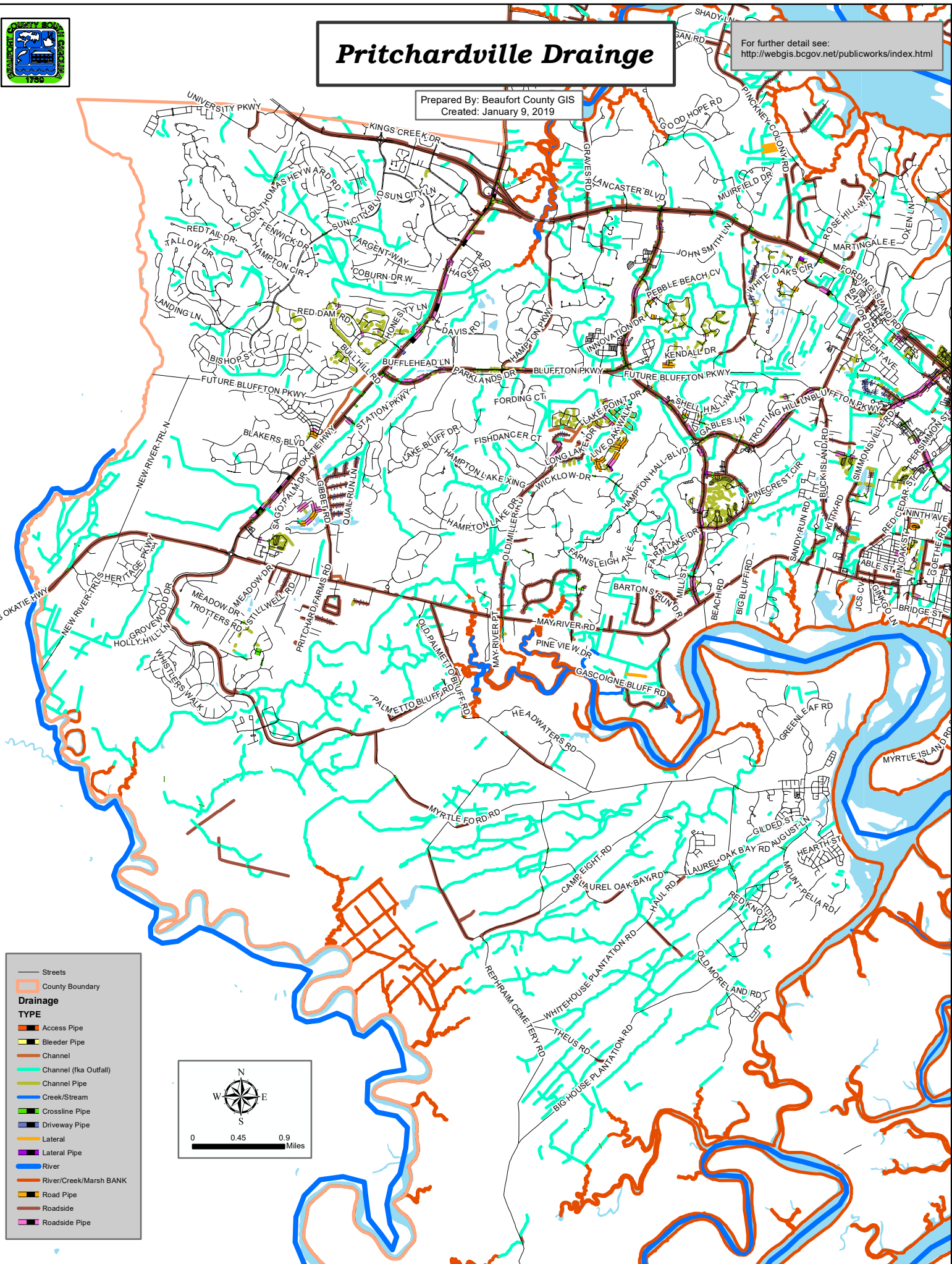




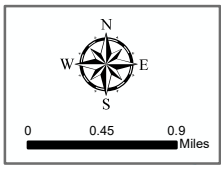
Pritchardville Drainage

For further detail see:
<http://webgis.bcgov.net/publicworks/index.html>

Prepared By: Beaufort County GIS
Created: January 9, 2019



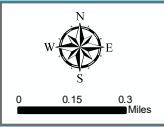
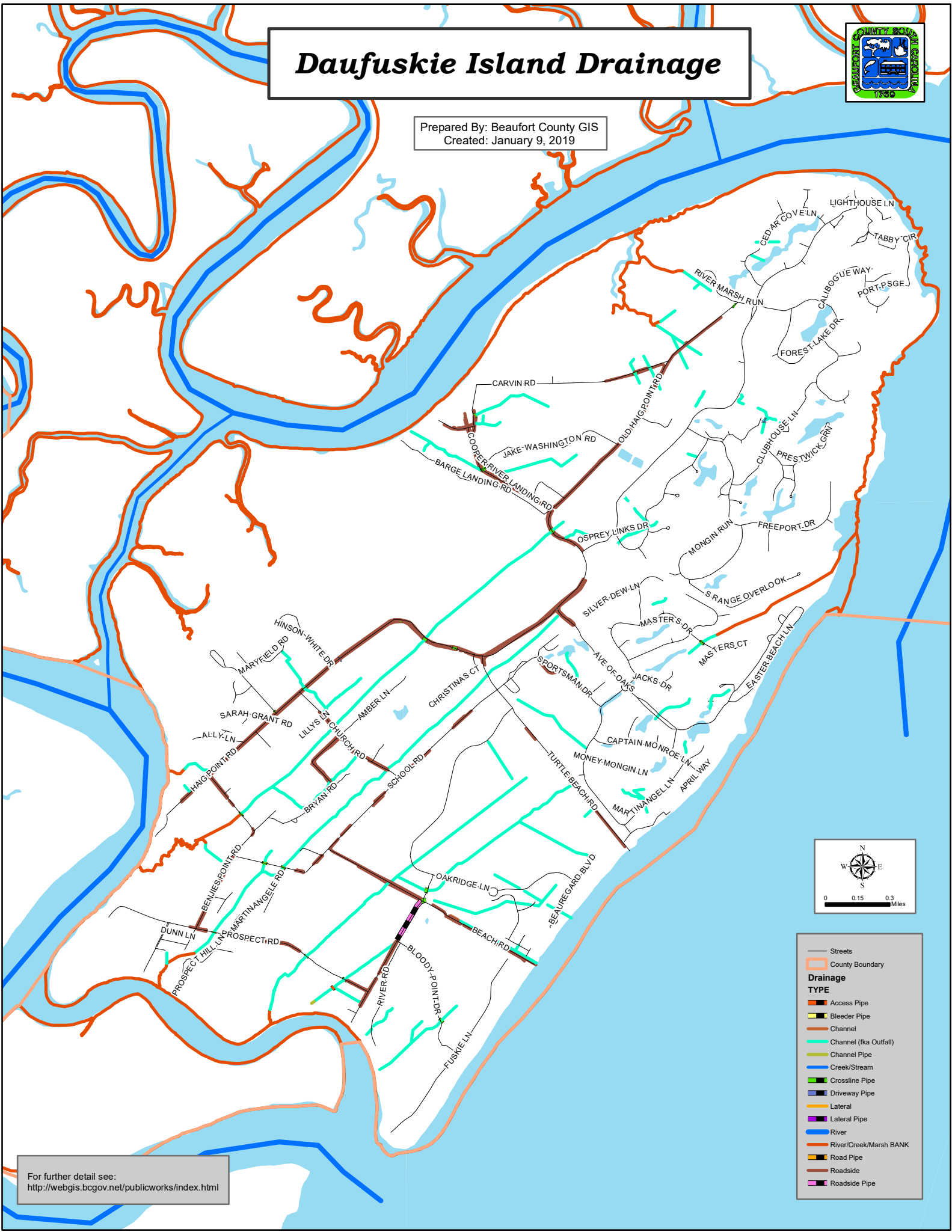
- Streets
- County Boundary
- Drainage TYPE**
- Access Pipe
- Bleeder Pipe
- Channel
- Channel (fka Outfall)
- Channel Pipe
- Creek/Stream
- Crossline Pipe
- Driveway Pipe
- Lateral
- Lateral Pipe
- River
- River/Creek/Marsh BANK
- Road Pipe
- Roadside
- Roadside Pipe



Daufuskie Island Drainage



Prepared By: Beaufort County GIS
Created: January 9, 2019



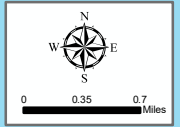
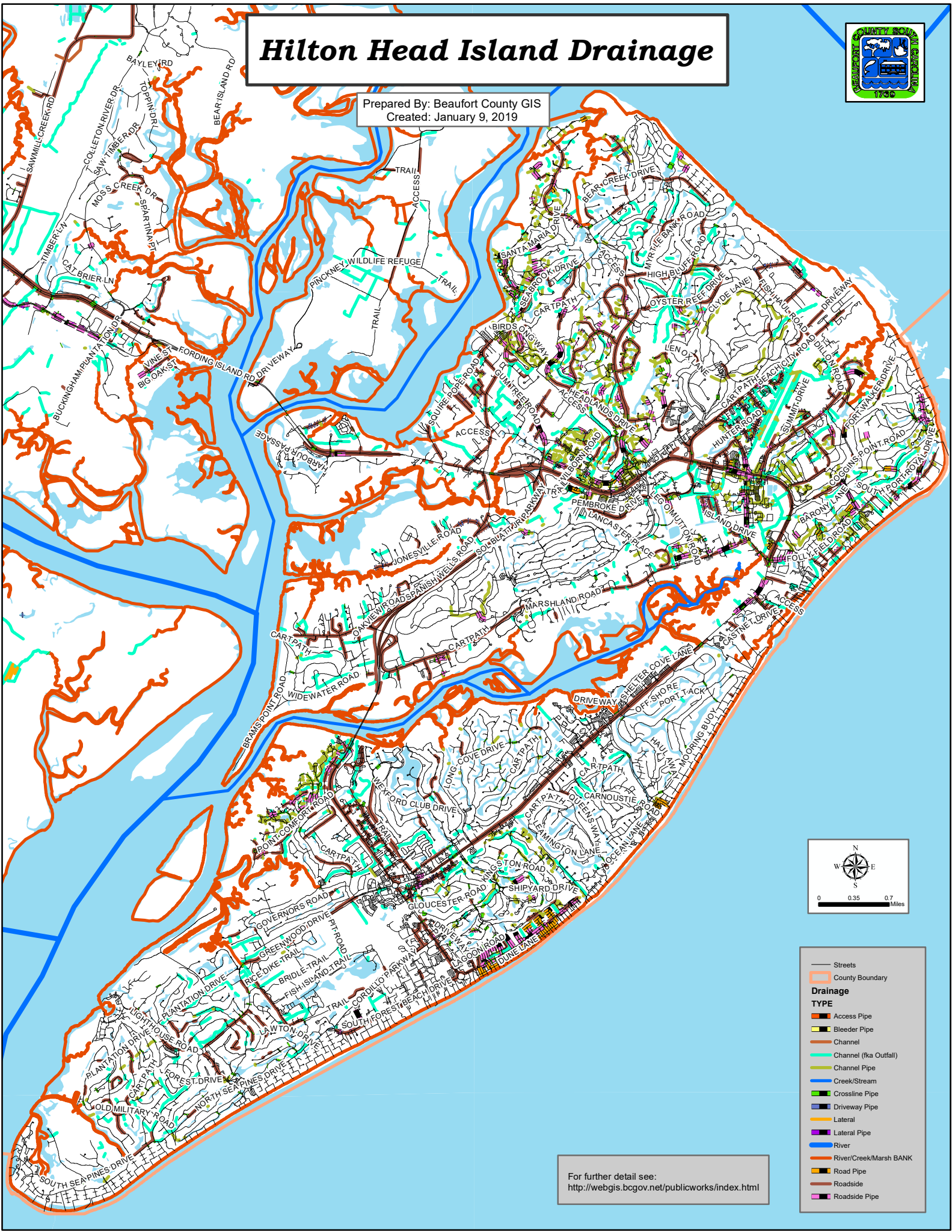
—	Streets
—	County Boundary
Drainage TYPE	
—	Access Pipe
—	Bleeder Pipe
—	Channel
—	Channel (fka Outfall)
—	Channel Pipe
—	Creek/Stream
—	Crossline Pipe
—	Driveway Pipe
—	Lateral
—	Lateral Pipe
—	River
—	River/Creek/Marsh BANK
—	Road Pipe
—	Roadside
—	Roadside Pipe

For further detail see:
<http://webgis.bcgov.net/publicworks/index.html>

Hilton Head Island Drainage



Prepared By: Beaufort County GIS
Created: January 9, 2019



For further detail see:
<http://webgis.bcgov.net/publicworks/index.html>

Drainage TYPE	
	Streets
	County Boundary
	Access Pipe
	Bleeder Pipe
	Channel
	Channel (fka Outfall)
	Channel Pipe
	Creek/Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	River/Creek/Marsh BANK
	Road Pipe
	Roadside
	Roadside Pipe

STORMWATER MANAGEMENT PLAN (SWMP)

Prepared in accordance with SCDHEC Permit (SCR030000)



December 1, 2018

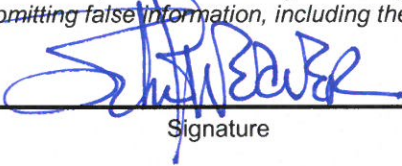
**Beaufort County
120 Shanklin Road
Beaufort, South Carolina
843-255-2805**

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."



Signature

Interim County Administrator

Title/MS4

1/28/2019

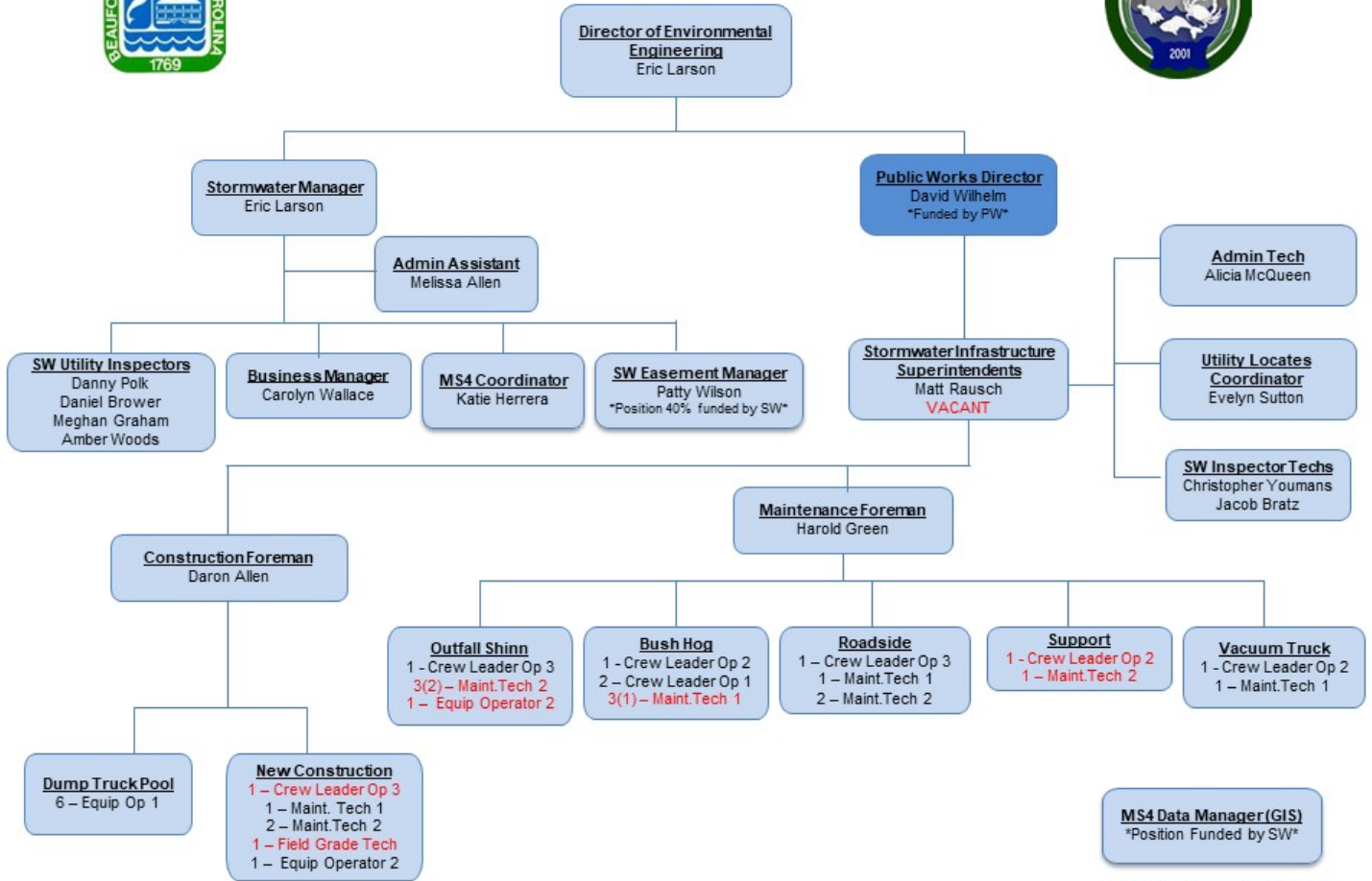
Date

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

Organizational Chart



Beaufort County Stormwater



Updated 1.11.19

() Indicates Vacancies Over 1

**PART I
ADMINISTRATIVE INFORMATION**

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

Beaufort County
MS4

N/A
NPDES Small MS4 Permit Coverage Number

John Weaver
Responsible Elected Official or Officer

Interim County Administrator
Title

100 Ribaut Road
Street Address

Beaufort
City

SC
State

29902
Zip Code

Indicate whether the SMS4 is a:

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

PROGRAM CONTACT

Eric Larson
Name

elarson@bcgov.net
Email Address

(843) 255-2805
Phone Number

TECHNICAL CONTACT

Eric Larson
Name

elarson@bcgov.net
Email Address

(843) 255-2805
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
- UA portions, as follows (Counties only):

Total Area: 596 sq. miles Unincorporated Area **≈ 596 sq miles**

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	≈ 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	<u>No Change</u>	State vocational, technical, college or universities	<u>No Change</u>
Actual areas of commercial or industrial activity	<u>No Change</u>	Federal vocational, technical, college or universities	<u>No Change</u>
Other municipally owned/operated industrial activities	<u>No Change</u>	City Roads	<u>No Change</u>
Municipal or County Wastewater Treatment Plants	<u>No Change</u>	County Roads	<u>No Change</u>
Vehicle Fleet Maintenance Centers	<u>No Change</u>	Perennial and intermittent streams	<u>No Change</u>
Power Plants	<u>No Change</u>	Topography or Drainage Patterns	<u>No Change</u>
Airports	<u>No Change</u>	Landfills (Garbage Convenience Stations)	<u>No Change</u>
Military Installations	<u>No Change</u>	Indian Country lands, if any	<u>No Change</u>
	<u>No Change</u>	Drainage Pipe and Structures	<u>No Change</u>

**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	Began developing target audiences to reach with stormwater pollution messages and educational materials
Milestone Year 4	
Milestone Year 5	

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, distributed audience specific brochures- Goal to reach an additional 1,000 people with SW education.
Milestone Year 3	Participated as a partner when possible at public events (festivals, etc.), set up booth and man, distributed audience specific brochures. Goal to reach an additional 1,000 people with SW education.
Milestone Year 4	
Milestone Year 5	
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	Maintained and Updated Website based on customer input, availability of new information and input from both the development and environmental community.
Milestone Year 4	
Milestone Year 5	
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 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 included components designed for various residential and commercial audiences and others targeted for their impact to stormwater and nonpoint source pollution. Events were held at available facilities in such a way to reach diverse and regionally distributed audiences. Such instruction 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	Clemson University/Carolina Clear 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 included components designed for various residential and commercial audiences and others targeted for their impact to stormwater and nonpoint source pollution. Events were held at available facilities in such a way to reach diverse and regionally distributed audiences. Such instruction 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. Efforts have impacted over 1,000,000 individuals.
Milestone Year 4	
Milestone Year 5	
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 multiple programs 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 ₂ O Pontoon Classroom, Engaging teachers in new watershed and stormwater curriculum meeting SC Standards, and EnviroScope.
Milestone Year 3	Provided multiple youth programs within the region such as "That's MY Truck", a coloring contest which incorporated Stormwater Infrastructure equipment and how we use it to keep our County clean, Storm Drain Marking, 4-H Wetlands Project explores estuaries, marshes, and swamps, Engaging teachers in new watershed and stormwater curriculum meeting SC Standards, and EnviroScope
Milestone Year 4	
Milestone Year 5	
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	None
Milestone Year 3	None
Milestone Year 4	
Milestone Year 5	
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 participated in more than 10 community and public programs with emphasis on stormwater education. Provided resources to encourage continued learning and practice adoption. Presented programs that 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. [Note that the survey activity is captured in the BMP above.]
Milestone Year 3	Planned, developed, presented, and participated in more than 10 community and public programs with emphasis on stormwater education. Provided resources to encourage continued learning and practice adoption. Presented programs that 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. [Note that the survey activity is captured in the BMP above.]
Milestone Year 4	
Milestone Year 5	
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 If no, explain
 No

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 If no, explain
 No

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 <http://www.clemson.edu/public/carolinaclear>
 No

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

Yes If no, explain
 No

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	<p>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.</p> <p>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. 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.</p>

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	Installed 30 storm drain markers. Worked to identify additional groups that may be willing to participate in installing markers.
Milestone Year 4	
Milestone Year 5	
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 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	The County held monthly Stormwater Utility board meetings and quarterly Lowcountry Stormwater Partner meetings. The meetings are open to the public to allow citizen input, with the Stormwater Utility Board meetings being televised.
Milestone Year 4	
Milestone Year 5	
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	Organized teams in targeted areas within Beaufort County, provided on-site program management, arranged for collection and disposal. Clemson prepared an annual report detailing milestones achieved in Year 3.
Milestone Year 4	
Milestone Year 5	
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
ILLCIT 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~~18~~, It is estimated that 76% 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

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 and again in Year 3. Utilizing DHEC information regarding shellfish bed status, as well as local water authority maps, two locations within the MS4 boundary have been identified as potential hot spots for our illicit discharge screening priority areas.

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 were 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, Page Number
Pg. G-19

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 G-13 Page Number 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 completed 50% of the outfall inventory map in 2017. Continue to map and inspect 25% per year until complete. As of Dec 1, 2018 it is estimated that 76% of Beaufort County has been mapped.
C.	Outfall Screening for Illicit Discharges	<p>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.</p> <p>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.</p>
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 were 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, compiled 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	<p>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</p> <p>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.</p> <p>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.</p> <p>Establish the authority to issue violations to determined establishments and/or owners when illicit discharges and/or non-storm water discharges are determined.</p>
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	Implemented 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 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	Inspected 100% of the known storm sewer system within the County after Hurricane Matthew including stormwater infrastructure pipes and outfalls.
Milestone Year 3	Inventoried another 25% of County owned outfalls. Continue to update map as new development and/or changes occur.
Milestone Year 4	Continue inventory of final 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 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	Performed 11 inspections and created documentation within MUNIS and the BC Connect app. Results are reported in annual report.
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	Prioritized 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	Continued education and training to the public. Made it easier for public to report accurate illicit discharge complaints through education with our app, BC Connect.
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	Notices of violation and enforcement actions have begun to be tracked through MUNIS.
Milestone Year 3	Continued to track issuance of notices of violations and enforcement actions through MUNIS as well as monthly reports to the Stormwater Utility Board.
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	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	Continued 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. Implement newly developed monitoring schedule and database developed for jurisdiction added by change in permit by rule.
Milestone Year 5	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 and Chechessee Creek Watershed.
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	Provided 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	Mapped and assessed 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.
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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

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-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 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 differeed 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

56 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	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
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	<p>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 developed and implemented a written inspection program for construction site controls installed pursuant to the County's construction site runoff control program.</p> <p>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.</p>
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
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Eric Larson, PE	Stormwater Manager
OTHER DEPARTMENT	ROLE
Stormwater Regulatory	Enforcement
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 <i><u>These tables must be completed and attached for each of Sections 1 thru 6 of this Notice of Intent (NOI)</u></i>	
SECTION FOUR	
TABLE 3: BEST MANAGEMENT PRACTICES	
<p>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.</p> <p>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.</p> <p>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.</p>	
BMP A	MEASURABLE GOALS AND MILESTONES
Goals	<p>Revised stormwater management ordinance, or other regulatory mechanism, to adequately and clearly state the legal authorities to meet the objectives of the construction site runoff requirements for the Stormwater Management Program.</p> <p>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</p> <p>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.</p> <p>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</p>

	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	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 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	Implemented 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	Implemented 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	Implemented 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	Implemented 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 <input checked="" type="checkbox"/>	No <input type="checkbox"/>	BMP Manual Sect. <u>2-1</u>	Page Number	Sec.:2.1.1	Paragraph Number
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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 <input checked="" type="checkbox"/>	No <input type="checkbox"/>	2-1	Page Number	Sec.: 2.1.1	Paragraph Number
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2. Does the ordinance or regulatory mechanism require controls to mitigate pollutants in stormwater runoff? If yes, note page number and paragraph number.

Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	G-14	Page Number	99-115	Paragraph Number
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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 <input checked="" type="checkbox"/>	No <input type="checkbox"/>	2-1	Page Number	Sec.: 2.1.1	Paragraph Number
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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 <input checked="" type="checkbox"/>	No <input type="checkbox"/>	2-5	Page Number	Sec.: 2.1.4	Paragraph Number
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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 <input checked="" type="checkbox"/>	No <input type="checkbox"/>	2-11	Page Number	Sec.: 2.3.2	Paragraph Number
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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 Eric Larson, Stormwater Manager, 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	<p>Maintain through an ordinance, or other regulatory mechanism, adequate legal authorities to meet the objectives of the Post-Construction Site Runoff Controls program.</p> <p>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.</p> <p>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.</p> <p>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.</p>
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	<p>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.</p> <p>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.</p>
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 <i><u>These tables must be completed and attached for each of Sections 1 thru 6 of this Notice of Intent (NOI)</u></i>	
SECTION FIVE	
TABLE 3: BEST MANAGEMENT PRACTICES	
<p>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.</p> <p>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.</p> <p>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.</p>	
BMP A	MEASURABLE GOALS AND MILESTONES
Goals	<p>Maintain through an ordinance, or other regulatory mechanism, adequate legal authorities to meet the objectives of the Post-Construction Site Runoff Controls program.</p> <p>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.</p> <p>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.</p> <p>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.</p>
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	Continued implementation of 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	Continued 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	Continued implementation of plans review process and procedures. Reviewed 124 plans and worked with designers and engineers of record to meet requirements.
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	Continued to implement maintenance plan for each SCM and enter appropriate data into SCM database. 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 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	Implemented 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	Continued 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 SCG160002	Hilton Head Airport SCR002271	Lady's Island Airport 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 If no, explain
 No

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 If yes, explain **All records of training are documented as part of our Public education report.**
 No

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 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.
 No

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.	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.

TABLE 2: ADMINISTRATIVE INFORMATION

PRIMARY CONTACT	POSITION OR TITLE
Eric Larson, PE	Stormwater Manager
OTHER DEPARTMENT	ROLE
Public Works (includes solid waste)	SWPPP implementation
Mosquito Control	SWPPP implementation
Airports	SWPPP implementation
GOVERNMENT ENTITY	ROLE
Beaufort County SW Utility	Primary responsible party
Sheriff	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	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	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	Develop SWPPP's for priority facilities. Conduct annual inspection. Continued issuing County SW permits to aid facility tracking. Conducted annual inspections of priority facilities and continued identifying SWPPP needs.
Milestone Year 4	Begin implementation of facility SWPPP's. Conduct annual inspection. Develop SWPPPs for priority facilities.
Milestone Year 5	Conduct annual inspection. Begin implementation of facility SWPPP's.
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	Continued to develop a pollution prevention workshop for all municipal employees responsible for grounds maintenance, landscaping crews, convenience centers, and roadway and drainage staff.
Milestone Year 4	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 5	Conduct an annual workshop for new employees and crew managers 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	The County continued to use the contract sweeper.
Milestone Year 3	Conducted 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. The County purchased a vacuum truck and street sweeper as well as hired an operator.
Milestone Year 4	Continue to conduct street and parking lot sweeping in priority areas. Quantify debris collected from street sweeping.
Milestone Year 5	Continue to conduct street and parking lot sweeping in priority areas. Assess sweeping program and priority areas.

**Beaufort County
MS4-319 Monitoring
2018**

Date of Collection	Site ID	Time of Collection	Air Temperature (°C)	Water Temperature (°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
1/17/2018	MRG03	NS												32.430800 -80.630610
1/17/2018	BATT04	NS												32.424450 -80.725150
1/17/2018	OKW3A	NS												32.278760 -80.945870
1/17/2018	MRW02	NS											TOB collected 1/17	32.240785 -80.885964
1/17/2018	NRW01	1300	6.67	8.17	1.252	11.14	6.38	0.61	10.8	02	4100	*	*BC to take flow	32.236193 -81.013512
1/17/2018	MRG04	NS												32.444164 -80.627131
1/17/2018	CSW01	NS												32.556240 -80.693540
1/17/2018	CSW03	NS												32.580105 -80.698511
1/17/2018	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 vicinity)

CLDY = Cloudy Skies

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

Additional Comments:

DRY EVENT

COC #002177

Weather Code	Tide Stage
00 = (Clear; NSW)	2000 = EBB
01 = (Fair Weather)	2100 = 1/4 Fld
02 = (Cloudy Skies)	2200 = 1/2 Fld
22 = (Rain/Storm)	2300 = 3/4 Fld
	4000 = FLOOD
	4300 = 3/4 Ebb
	4200 = 1/2 Ebb
	4100 = 1/4 Ebb

**Beaufort County
MS4-319 Monitoring
2018**

Col. Date	Site ID	Col. Time	MPN E. Coli	MPN Fecal	MPN Enterococcus	MPN E. Coli	MPN Fecal	MPN Enterococcus	Remarks
			(MPN/100 mL)	(MPN/100 mL)	(MPN/100 mL)	Dilution	Dilution	Dilution	
1/17/2018	MRG03	NS							
1/17/2018	BATT04	NS							
1/17/2018	OKW3A	NS							
1/17/2018	MRW02	NS							TOB Collected 1/17
1/17/2018	NRW01	1300	247.5	147.5	52.0	5	5	10	
1/17/2018	MRG04	NS							
1/17/2018	CSW01	NS							
1/17/2018	CSW03	NS							
1/17/2018	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
2018**

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 Phosphorous (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) mg/L	Metals-Lead (Pb) mg/L	Metals-Zinc (Zn) mg/L	Metals-Mercury (Hg) mg/L	Remarks
1/17/2018	MRG03	NS												
1/17/2018	BATT04	NS												
1/17/2018	OKW3A	NS												
1/17/2018	MRW02	NS												TOB Collected 1/17
1/17/2018	NRW01	1300	<2.0	0.80	0.70	15	16	0.14	4.5	<0.0050	<0.0025	<0.020	<0.00020	
1/17/2018	MRG04	NS												
1/17/2018	CSW01	NS												
1/17/2018	CSW03	NS												
1/17/2018	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

**Beaufort County
MS4-319 Monitoring
2018**

Date of Collection	Site ID	Time of Collection	Air Temperature (°C)	Water Temperature (°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
2/27/2018	MRG03	0831	10.6	14.28	0.188	7.29	6.41	0.09	69.9	00	4200	*	*Too low for flow	32.430800 -80.630610
2/27/2018	BATT04	0946	13.3	17.82	36.2	4.38	7.16	22.81	5.5	00	4200	0.085		32.424450 -80.725150
2/27/2018	OKW3A	1355	17.8	19.04	0.144	7.38	6.84	0.07	9.4	00		*	*Waiting on BC IQ	32.278760 -80.945870
2/27/2018	MRW02	1230	16.1	11.18	0.210	5.37	6.56	0.10	8.7	00		0.030		32.240785 -80.885964
2/27/2018	NRW01	1255	17.8	20.14	0.360	4.93	6.36	0.17	10.3	00	4200	*	*BC to take flow	32.236193 -81.013512
2/27/2018	MRG04	0822	10.6	15.88	0.237	4.51	6.68	0.11	16.0	00		NF		32.444164 -80.627131
2/27/2018	CSW01	1031	13.3	16.41	0.358	3.74	6.92	0.17	38.6	00		*	*Opposing Flow	32.556240 -80.693540
2/27/2018	CSW03	1045	13.3	16.42	11.58	6.57	7.21	6.53	58.1	00	4200	0.135		32.580105 -80.698511
2/27/2018	CBS01	1153	15.0	18.83	20.1	7.09	7.47	11.83	6.3	00	4100	0.062		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 vicinity)
 CLDY = Cloudy Skies
 R = Rain (Thunderstorm or Continuous due to frontal system passage)

Additional Comments:
 WET EVENT
 COC #002189

Weather Code	Tide Stage
00 = (Clear; NSW)	2000 = EBB
01 = (Fair Weather)	2100 = 1/4 Fld
02 = (Cloudy Skies)	2200 = 1/2 Fld
02 = (Rain/Storm)	2300 = 3/4 Fld
	4000 = FLOOD
	4300 = 3/4 Ebb
	4200 = 1/2 Ebb
	4100 = 1/4 Ebb

**Beaufort County
MS4-319 Monitoring
2018**

Col. Date	Site ID	Col. Time	MPN E. Coli	MPN Fecal	MPN Enterococcus	MPN E. Coli	MPN Fecal	MPN Enterococcus	Remarks
			(MPN/100 mL)	(MPN/100 mL)	(MPN/100 mL)	Dilution	Dilution	Dilution	
2/27/2018	MRG03	0831	264.0	301.0		5	5		
2/27/2018	BATT04	0946	2053.0	618.0		5	5		
2/27/2018	OKW3A	1355	11.0	137.5		5	5		
2/27/2018	MRW02	1230	3244.0	2897.0		5	5		
2/27/2018	NRW01	1255	227.5	290.5	10.0	5	5	10	
2/27/2018	MRG04	0822	182.0	128.0		5	5		
2/27/2018	CSW01	1031	1724.0	2053.0		5	5		
2/27/2018	CSW03	1045	1123.5	369.0		5	5		
2/27/2018	CBS01	1153	1724.0	13.5		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
2018**

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 Phosphorus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) mg/L	Metals-Lead (Pb) mg/L	Metals-Zinc (Zn) mg/L	Metals-Mercury (Hg) mg/L	Remarks
2/27/2018	MRG03	0831	4.4	5.1	0.46	<0.050	0.49	<0.10	8.4	<0.0050	<0.0025	<0.020		
2/27/2018	BATT04	0946	5.1	4.8	<0.20	0.073	<0.25	0.11	6.4	<0.0050	<0.0025	<0.020		
2/27/2018	OKW3A	1355	8.8	4.6	1.0	0.066	1.1	0.11	5.4	<0.0050	<0.0025	<0.020		
2/27/2018	MRW02	1230	2.2	1.2	0.89	0.064	0.95	0.46	4.4	<0.0050	<0.0025	<0.020		
2/27/2018	NRW01	1255	3.4	<0.50	1.2	<0.050	1.2	<0.10	7.6	<0.0050	<0.0025	<0.020	<0.00020	
2/27/2018	MRG04	0822	19	8.1	1.2	<0.050	1.2	0.19	16	<0.0050	<0.0025	<0.020		
2/27/2018	CSW01	1031	7.0	5.9	<0.20	<0.050	<0.25	1.1	18	<0.0050	<0.0025	<0.020		
2/27/2018	CSW03	1045	9.3	25	<0.20	<0.050	<0.25	0.31	60	<0.0050	<0.0025	<0.020		
2/27/2018	CBS01	1153	5.1	2.4	<0.20	<0.050	<0.25	0.18	10	<0.0050	<0.0025	<0.020		

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

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NF = No Flow Observed at sample site

NW = No Water Observed at sample site

ND = No Data recorded

Comments:

**Beaufort County
MS4-319 Monitoring
2018**

Date of Collection	Site ID	Time of Collection	Air Temperature (°C)	Water Temperature (°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
3/5/2018	MRG03	1425	17.8	17.13	0.190	8.56	6.29	0.09	10.8	01	4100	*	*Too low for flow	32.430800 -80.630610
3/5/2018	BATT04	1500	17.7	14.94	38.6	7.94	6.43	24.78	2.7	01	4100	0.048		32.424450 -80.725150
3/5/2018	OKW3A	1530	18.3	15.40	0.160	8.70	7.61	0.08	5.0	02		*	*Waiting on BC IQ	32.278760 -80.945870
3/5/2018	MRW02	NS											TOB Collected (1/17)	32.240785 -80.885964
3/5/2018	NRW01	NS											Lab collected (1/17)	32.236193 -81.013512
3/5/2018	MRG04	1415	17.8	14.61	0.241	5.55	7.91	0.11	9.4	01		NF		32.444164 -80.627131
3/5/2018	CSW01	1306	17.8	13.44	0.379	3.90	5.81	0.18	20.2	01		NF		32.556240 -80.693540
3/5/2018	CSW03	1320	17.8	16.03	19.50	7.82	5.74	11.47	17.2	01	4300	0.270		32.580105 -80.698511
3/5/2018	CBS01	1604	18.3	16.22	42.5	7.64	8.11	26.92	7.3	02	4100	0.020		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 vicinity)
 CLDY = Cloudy Skies
 R = Rain (Thunderstorm or Continuous due to frontal system passage)

Additional Comments:
 DRY EVENT
 COC #002191

Weather Code	Tide Stage
00 = (Clear; NSW)	2000 = EBB
01 = (Fair Weather)	2100 = 1/4 Fld
02 = (Cloudy Skies)	2200 = 1/2 Fld
22 = (Rain/Storm)	2300 = 3/4 Fld
	4000 = FLOOD
	4300 = 3/4 Ebb
	4200 = 1/2 Ebb
	4100 = 1/4 Ebb

**Beaufort County
MS4-319 Monitoring
2018**

Col. Date	Site ID	Col. Time	MPN E. Coli	MPN Fecal	MPN Enterococcus	MPN E. Coli	MPN Fecal	MPN Enterococcus	Remarks
			(MPN/100 mL)	(MPN/100 mL)	(MPN/100 mL)	Dilution	Dilution	Dilution	
3/5/2018	MRG03	1425	159.0	94.5		5	5		
3/5/2018	BATT04	1500	331.5	172.5		5	5		
3/5/2018	OKW3A	1530	1093.5	556.0		5	5		
3/5/2018	MRW02	NS							
3/5/2018	NRW01	NS							
3/5/2018	MRG04	1415	37.5	26.0		5	5		
3/5/2018	CSW01	1306	15.5	20.5		5	5		
3/5/2018	CSW03	1320	197.5	26.0		5	5		
3/5/2018	CBS01	1604	162.0	37.5		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
2018

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 Phosphorus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) mg/L	Metals-Lead (Pb) mg/L	Metals-Zinc (Zn) mg/L	Metals-Mercury (Hg) mg/L	Remarks
3/5/2018	MRG03	1425	<3.00 (*1)	1.2	0.21	<0.050	<0.25	<0.10	<2.0	<0.0050	<0.0025	<0.020		
3/5/2018	BATT04	1500	<3.00 (*1)	1.9	0.62	1.3	1.9	0.11	14.0	<0.0050	<0.0025	<0.020		
3/5/2018	OKW3A	1530	<3.00 (*1)	3.7	0.92	0.080	1.0	0.12	6.2	<0.0050	<0.0025	<0.020		
3/5/2018	MRW02	NS												
3/5/2018	NRW01	NS												
3/5/2018	MRG04	1415	<3.00 (*1)	2.8	1.1	0.57	1.7	0.12	9.4	<0.0050	<0.0025	<0.020		
3/5/2018	CSW01	1306	2.4 (*1)	5.1	0.51	<0.050	0.51	0.50	9.2	<0.0050	<0.0025	<0.020		
3/5/2018	CSW03	1320	<6.00 (*1)	7.6	0.60	<0.050	0.60	0.14	33	<0.0050	<0.0025	<0.020		
3/5/2018	CBS01	1604	<12.00 (*1)	1.6	0.49	0.062	0.55	0.14	12	<0.0050	<0.0025	<0.020		

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:

*1 Contract Laboratory instrument data failure. Samples run out of hold.

**Beaufort County
MS4-319 Monitoring
2018**

Date of Collection	Site ID	Time of Collection	Air Temperature (°C)	Water Temperature (°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
4/17/2018	MRG03	1500	21.1	21.34	0.179	8.35	7.58	0.08	8.5	00	4200	0.078		32.430800 -80.630610	
4/17/2018	BATT04	1240	16.7	19.81	0.730	8.37	7.34	0.35	10.2	00	4100	0.095		32.424450 -80.725150	
4/17/2018	OKW3A	1300	18.9	15.46	0.142	11.11	7.64	0.07	11.0	00		*	*Waiting on BC IQ	32.278760 -80.945870	
4/17/2018	MRW02 (MRR02)	1315	18.9	14.52	0.205	4.60	5.69	0.10	5.0	00		0.042		32.240785 -80.885964	
4/17/2018	NRW01	1345	18.9	18.79	2.54	12.49	8.12	1.30	14.9	00	4100	*	*BC to collect flow	32.236193 -81.013512	
4/17/2018	MRG04	1510	21.1	17.49	0.236	8.27	7.39	0.11	16.5	00		NF		32.444164 -80.627131	
4/17/2018	CSW01	1135	16.7	15.04	0.350	3.72	8.48	0.17	24.1	00		0.067		32.556240 -80.693540	
4/17/2018	CSW03	1215	16.7	13.47	6.03	8.78	6.43	3.24	38.1	00	4100	0.058		32.580105 -80.698511	
4/17/2018	CBS01	1330	18.9	18.32	33.2	8.58	7.94	20.57	9.1	00	4100	0.085		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 vicinity)
- CLDY = Cloudy Skies
- R = Rain (Thunderstorm or Continuous due to frontal system passage)

Additional Comments:

DRY EVENT
COC #003105

Weather Code	Tide Stage
00 = (Clear; NSW)	2000 = EBB
01 = (Fair Weather)	2100 = 1/4 Fld
02 = (Cloudy Skies)	2200 = 1/2 Fld
22 = (Rain/Storm)	2300 = 3/4 Fld
	4000 = FLOOD
	4300 = 3/4 Ebb
	4200 = 1/2 Ebb
	4100 = 1/4 Ebb

**Beaufort County
MS4-319 Monitoring
2018**

Col. Date	Site ID	Col. Time	MPN E. Coli	MPN Fecal	MPN Enterococcus	MPN E. Coli	MPN Fecal	MPN Enterococcus	Remarks
			(MPN/100 mL)	(MPN/100 mL)	(MPN/100 mL)	Dilution	Dilution	Dilution	
4/17/2018	MRG03	1500	138.2	109.6		2	2		
4/17/2018	BATT04	1240	229.0	321.4		2	2		
4/17/2018	OKW3A	1300	1158.8	456.4		2	2		
4/17/2018	MRW02 (MRR02)	1315	259.2	229.0		2	2		
4/17/2018	NRW01	1345	270.8	274.8	41.0	2	2	10	
4/17/2018	MRG04	1510	119.6	158.8		2	2		
4/17/2018	CSW01	1135	357.8	456.4		2	2		
4/17/2018	CSW03	1215	1297.6	922.2		2	2		
4/17/2018	CBS01	1330	1297.6	1297.6		2	2		

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

**Beaufort County
MS4-319 Monitoring
2018**

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 Phosphorus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) mg/L	Metals-Lead (Pb) mg/L	Metals-Zinc (Zn) mg/L	Metals-Mercury (Hg) mg/L	Remarks
4/17/2018	MRG03	1500	4.6	11	2.6	<0.050	2.6	0.39	80	<0.0050	0.0039	0.024		
4/17/2018	BATT04	1240	5.7	5.4	0.68	<0.050	0.7	0.065	10	<0.0050	<0.0025	<0.020		
4/17/2018	OKW3A	1300	5.1	4.9	1.4	<0.050	1.4	0.11	6.8	<0.0050	<0.0025	<0.020		
4/17/2018	MRW02 (MRR02)	1315	5.4	1.9	0.62	0.066	0.69	0.30	2.0	<0.0050	<0.0025	<0.020		
4/17/2018	NRW01	1345	5.9	2.8	0.92	<0.050	0.94	<0.10	17	<0.0050	<0.0025	<0.020	<0.00020	
4/17/2018	MRG04	1510	5.2	29	1.5	<0.050	1.5	<0.10	33	<0.0050	<0.0025	<0.020		
4/17/2018	CSW01	1135	4.6	6.5	0.70	<0.050	0.70	0.68	16	<0.0050	<0.0025	<0.020		
4/17/2018	CSW03	1215	4.9	9.5	1.3	<0.050	1.3	0.26	35	<0.0050	<0.0025	<0.020		
4/17/2018	CBS01	1330	6.1	3.9	0.60	<0.050	0.60	0.17	18	<0.0050	<0.0025	<0.020		

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

**Beaufort County
MS4-319 Monitoring
2018**

Date of Collection	Site ID	Time of Collection	Air Temperature (°C)	Water Temperature (°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
4/24/2018	MRG03	810	20.0	18.54	0.175	17.14	6.43	0.08	15.6	01	4100	0.083		32.430800 -80.630610
4/24/2018	BATT04	1000	22.9	20.81	0.483	7.68	6.69	0.23	8.3	00	4100	0.143		32.424450 -80.725150
4/24/2018	OKW3A	1030	22.9	21.67	0.129	6.53	6.62	0.05	12.6	00		*	*Waiting on BC IQ	32.278760 -80.945870
4/24/2018	MRW02 (MRR02)	1135	23.5	19.40	0.211	8.33	6.96	0.10	5.9	00		0.060	TOB Collected (1/17); Data share agreement	32.240785 -80.885964
4/24/2018	NRW01	1215	25.3	20.02	1.72	5.14	6.34	0.87	9.4	00	4100	*	*BC to collect flow	32.236193 -81.013512
4/24/2018	MRG04	0825	20.1	19.14	0.237	4.76	6.56	0.11	33.5	01		0.095		32.444164 -80.627131
4/24/2018	CSW01	0930	22.7	19.45	0.178	3.33	6.43	0.09	52.4	00		0.059		32.556240 -80.693540
4/24/2018	CSW03	0945	22.7	21.01	0.718	8.83	6.59	0.35	48.1	01	4200	0.077		32.580105 -80.698511
4/24/2018	CBS01	1200	25.3	24.27	6.85	8.18	6.85	3.75	4.5	00	4100	0.105		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 vicinity)
 CLDY = Cloudy Skies
 R = Rain (Thunderstorm or Continuous due to frontal system passage)

Additional Comments:

WET EVENT

COC #003107

Weather Code	Tide Stage
00 = (Clear; NSW)	2000 = EBB
01 = (Fair Weather)	2100 = 1/4 Fld
02 = (Cloudy Skies)	2200 = 1/2 Fld
22 = (Rain/Storm)	2300 = 3/4 Fld
	4000 = FLOOD
	4300 = 3/4 Ebb
	4200 = 1/2 Ebb
	4100 = 1/4 Ebb

**Beaufort County
MS4-319 Monitoring
2018**

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	MPN Fecal	MPN Enterococcus	Remarks
						Dilution	Dilution	Dilution	
4/24/2018	MRG03	810	454.0	288.0		5	2		
4/24/2018	BATT04	1000	677.0	719.5		5	5		
4/24/2018	OKW3A	1030	1936.5	1306.5		5	5		
4/24/2018	MRW02 (MRR02)	1135	1240.5	1123.5		5	5		
4/24/2018	NRW01	1215	994.5	862.5	285.0	5	5	10	
4/24/2018	MRG04	0825	441.0	356.0		5	5		
4/24/2018	CSW01	0930	2442.0	2897.0		5	5		
4/24/2018	CSW03	0945	2442.0	841.0		5	5		
4/24/2018	CBS01	1200	331.5	319.0		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

Beaufort County
MS4-319 Monitoring
2018

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 Phosphorus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) mg/L	Metals-Lead (Pb) mg/L	Metals-Zinc (Zn) mg/L	Metals-Mercury (Hg) mg/L	Remarks
4/24/2018	MRG03	810	3.6	4.4	1.3	1.2	2.5	0.19	24	<0.0050	<0.0025	0.022		
4/24/2018	BATT04	1000	2.9	6.9	0.73	0.9	1.7	<0.10	5.2	<0.0050	<0.0025	<0.020		
4/24/2018	OKW3A	1030	3.9	1.6	1.2	1.4	2.6	0.13	8.4	<0.0050	<0.0025	<0.020		
4/24/2018	MRW02 (MRR02)	1135	3.6	3.20	0.87	0.48	1	0.23	<2.0	<0.0050	<0.0025	<0.020		
4/24/2018	NRW01	1215	<6.0	15	1.1	<0.050	1.1	<0.10	7.2	<0.0050	<0.0025	<0.020	<0.00020	
4/24/2018	MRG04	0825	7.6	47	2.5	0.091	2.6	0.16	62	<0.0050	<0.0025	<0.020		
4/24/2018	CSW01	0930	<6.0	3.1	0.97	0.260	1.2	1.8	15	<0.0050	<0.0025	<0.020		
4/24/2018	CSW03	0945	2.8	3.0	1.5	0.71	2.2	0.29	33	<0.0050	<0.0025	<0.020		
4/24/2018	CBS01	1200	<6.0	1.8	0.89	0.58	1.5	0.25	4.5	<0.0050	<0.0025	<0.020		

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

**Beaufort County
MS4-319 Monitoring
2018**

Date of Collection	Site ID	Time of Collection	Air Temperature (°C)	Water Temperature (°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
9/17/2018	MRG03	1230	33.9	28.72	5.01	3.54	6.30	2.90	10.1	01	4100	NF	No flow coming out of pipe-site pooled	32.430800 -80.630610
9/17/2018	BATT04	NS												32.424450 -80.725150
9/17/2018	OKW3A	1315	35.8	27.18	0.124	3.73	6.88	0.06	3.9	01	NA	*	*Waiting on BC IQ	32.278760 -80.945870
9/17/2018	MRW02 (MRR02)	1335	28.0	25.67	0.232	2.14	6.61	0.11	11.7	02	NA	0.000		32.240785 -80.885964
9/17/2018	NRW01	NS												32.236193 -81.013512
9/17/2018	MRG04	1155	31.5	25.79	0.231	3.06	6.42	0.11	9.7	01	NA	NF	No flow coming out of outfall-too low to take flow	32.444164 -80.627131
9/17/2018	CSW01	NS												32.556240 -80.693540
9/17/2018	CSW03	NS												32.580105 -80.698511
9/17/2018	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 vicinity)
 CLDY = Cloudy Skies
 R = Rain (Thunderstorm or Continuous due to frontal system passage)

Additional Comments:

DRY EVENT

COC #003424

Weather Code	Tide Stage
00 = (Clear; NSW)	2000 = EBB
01 = (Fair Weather)	2100 = 1/4 Fid
02 = (Cloudy Skies)	2200 = 1/2 Fid
22 = (Rain/Storm)	2300 = 3/4 Fid
	4000 = FLOOD
	4300 = 3/4 Ebb
	4200 = 1/2 Ebb
	4100 = 1/4 Ebb

**Beaufort County
MS4-319 Monitoring
2018**

Col. Date	Site ID	Col. Time	MPN E. Coli	MPN Fecal	MPN Enterococcus	MPN E. Coli	MPN Fecal	MPN Enterococcus	Remarks
			(MPN/100 mL)	(MPN/100 mL)	(MPN/100 mL)	Dilution	Dilution	Dilution	
9/17/2018	MRG03	1210	2586.0	12098.0		5	5		
9/17/2018	BATT04	NS							
9/17/2018	OKW3A	1255	1191.0	1377.5		5	5		
9/17/2018	MRW02 (MRR02)	1325	1377.5	2442.0		5	5		
9/17/2018	NRW01	NS							
9/17/2018	MRG04	1144	232.0	894.5		5	5		
9/17/2018	CSW01	NS							
9/17/2018	CSW03	NS							
9/17/2018	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

Beaufort County
MS4-319 Monitoring
2018

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 Phosphorus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) mg/L	Metals-Lead (Pb) mg/L	Metals-Zinc (Zn) mg/L	Metals-Mercury (Hg) mg/L	Remarks
9/17/2018	MRG03	1210	4.5	12	0.88	<0.050	0.90	<0.10	9.4	<0.0050	<0.0025	<0.020		
9/17/2018	BATT04	NS												
9/17/2018	OKW3A	1255	6.4	10	0.84	0.19	1.0	0.13	5.6	0.0093	<0.0025	<0.020		
9/17/2018	MRW02 (MRR02)	1325	2.6	4.1	0.95	0.064	1.0	0.76	10	<0.0050	<0.0025	<0.020		
9/17/2018	NRW01	NS												
9/17/2018	MRG04	1144	5.9	11	1.4	<0.050	1.4	0.14	7.2	<0.0050	<0.0025	<0.020		
9/17/2018	CSW01	NS												
9/17/2018	CSW03	NS												
9/17/2018	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

**Beaufort County
MS4-319 Monitoring
2018**

Date of Collection	Site ID	Time of Collection	Air Temperature (°C)	Water Temperature (°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
9/18/2018	MRG03	NS												32.430800 -80.630610
9/18/2018	BATT04	851	27.8	28.38	2.24	5.03	6.43	1.13	18.5	00	4300	*	*Water too low to take accurate flow	32.424450 -80.725150
9/18/2018	OKW3A	NS												32.278760 -80.945870
9/18/2018	MRW02 (MRR02)	NS												32.240785 -80.885964
9/18/2018	NRW01	937	25.6	26.53	0.638	3.13	7.11	0.31	6.2	00	4300		*BC to collect flow	32.236193 -81.013512
9/18/2018	MRG04	NS												32.444164 -80.627131
9/18/2018	CSW01	NS												32.556240 -80.693540
9/18/2018	CSW03	NS												32.580105 -80.698511
9/18/2018	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 vicinity)
 CLDY = Cloudy Skies
 R = Rain (Thunderstorm or Continuous due to frontal system passage)

Additional Comments:

DRY EVENT

COC #003425

Weather Code	Tide Stage
00 = (Clear; NSW)	2000 = EBB
01 = (Fair Weather)	2100 = 1/4 Fld
02 = (Cloudy Skies)	2200 = 1/2 Fld
22 = (Rain/Storm)	2300 = 3/4 Fld
	4000 = FLOOD
	4300 = 3/4 Ebb
	4200 = 1/2 Ebb
	4100 = 1/4 Ebb

**Beaufort County
MS4-319 Monitoring
2018**

Col. Date	Site ID	Col. Time	MPN E. Coli	MPN Fecal	MPN Enterococcus	MPN E. Coli	MPN Fecal	MPN Enterococcus	Remarks
			(MPN/100 mL)	(MPN/100 mL)	(MPN/100 mL)	Dilution	Dilution	Dilution	
9/18/2018	MRG03	NS							
9/18/2018	BATT04	857	2909.0	309.0		10	10		
9/18/2018	OKW3A	NS							
9/18/2018	MRW02 (MRR02)	NS							
9/18/2018	NRW01	945	350.0	288.0	839.0	10	10	10	
9/18/2018	MRG04	NS							
9/18/2018	CSW01	NS							
9/18/2018	CSW03	NS							
9/18/2018	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

**Beaufort County
MS4-319 Monitoring
2018**

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 Phosphorus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) mg/L	Metals-Lead (Pb) mg/L	Metals-Zinc (Zn) mg/L	Metals-Mercury (Hg) mg/L	Remarks
9/18/2018	MRG03	NS												
9/18/2018	BATT04	857	3.6	29	1.2	<0.050	1.2	0.12	11	<0.0050	<0.0025	<0.020		
9/18/2018	OKW3A	NS												
9/18/2018	MRW02 (MRR02)	NS												
9/18/2018	NRW01	945	2.1	0.71	1.0	0.11	1.1	<0.10	6.6	<0.0050	<0.0025	<0.020	<0.00020	
9/18/2018	MRG04	NS												
9/18/2018	CSW01	NS												
9/18/2018	CSW03	NS												
9/18/2018	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

Beaufort County
MS4-319 Monitoring
2018

Date of Collection	Site ID	Time of Collection	Air Temperature (°C)	Water Temperature (°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
9/21/2018	MRG03	NS													32.430800 -80.630610
9/21/2018	BATT04	NS													32.424450 -80.725150
9/21/2018	OKW3A	NS													32.278760 -80.945870
9/21/2018	MRW02 (MRR02)	NS													32.240785 -80.885964
9/21/2018	NRW01	NS													32.236193 -81.013512
9/21/2018	MRG04	NS													32.444164 -80.627131
9/21/2018	CSW01	855	23.9	25.03	0.283	2.54	6.68	0.14	42.3	01		NF		32.556240 -80.693540	
9/21/2018	CSW03	936	26.1	26.21	22.40	2.69	6.76	13.50	14.7	02	4200	NF		32.580105 -80.698511	
9/21/2018	CBS01	1053	24.6	27.46	43.9	1.70	7.12	28.32	13.8	02	4300	NF		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 vicinity)
- CLDY = Cloudy Skies
- R = Rain (Thunderstorm or Continuous due to frontal system passage)

Additional Comments:

DRY EVENT

COC #003428

Weather Code	Tide Stage
00 = (Clear; NSW)	2000 = EBB
01 = (Fair Weather)	2100 = 1/4 Fld
02 = (Cloudy Skies)	2200 = 1/2 Fld
22 = (Rain/Storm)	2300 = 3/4 Fld
	4000 = FLOOD
	4300 = 3/4 Ebb
	4200 = 1/2 Ebb
	4100 = 1/4 Ebb

**Beaufort County
MS4-319 Monitoring
2018**

Col. Date	Site ID	Col. Time	MPN E. Coli	MPN Fecal	MPN Enterococcus	MPN E. Coli	MPN Fecal	MPN Enterococcus	Remarks
			(MPN/100 mL)	(MPN/100 mL)	(MPN/100 mL)	Dilution	Dilution	Dilution	
9/21/2018	MRG03	NS							
9/21/2018	BATT04	NS							
9/21/2018	OKW3A	NS							
9/21/2018	MRW02 (MRR02)	NS							
9/21/2018	NRW01	NS							
9/21/2018	MRG04	NS							
9/21/2018	CSW01	900	5.0	260.0		5	5		
9/21/2018	CSW03	939	2755.0	565.0		10	10		
9/21/2018	CBS01	1100	5172.0	1658.0		10	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

**Beaufort County
MS4-319 Monitoring
2018**

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 Phosphorus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) mg/L	Metals-Lead (Pb) mg/L	Metals-Zinc (Zn) mg/L	Metals-Mercury (Hg) mg/L	Remarks
9/21/2018	MRG03	NS												
9/21/2018	BATT04	NS												
9/21/2018	OKW3A	NS												
9/21/2018	MRW02 (MRR02)	NS												
9/21/2018	NRW01	NS												
9/21/2018	MRG04	NS												
9/21/2018	CSW01	900	2.8	30	1.0	<0.050	1.0	0.59	14	<0.0050	0.0027	<0.020		
9/21/2018	CSW03	939	24	13	0.64	0.069	0.71	0.19	23	<0.0050	<0.0025	<0.020		
9/21/2018	CBS01	1100	24	5.6	<0.20	<0.050	0.25	0.11	22	0.0051	<0.0025	<0.020		

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:

*1 Contract Laboratory instrument data failure. Samples run out of hold.

**Beaufort County
MS4-319 Monitoring
2018**

Date of Collection	Site ID	Time of Collection	Air Temperature (°C)	Water Temperature (°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
10/1/2018	MRG03	915	22.62	23.02	0.533		5.18	6.11	0.26	4.3	00	2000	NF	No flow coming out of pipe- water too low	32.430800 -80.630610
10/1/2018	BATT04	NS													32.424450 -80.725150
10/1/2018	OKW3A	1150	24.15	24.89	0.135		4.65	7.10	0.07	10.3	02		NA	Waiting on BC IQ	32.278760 -80.945870
10/1/2018	MRW02 (MRR02)	1125	24.70	23.96	0.249		1.34	6.92	0.12	7.6	01		NF	Too low to get flow reading	32.240785 -80.885964
10/1/2018	NRW01	1110	24.12	25.26	2.64		3.32	6.99	1.36	2.0	00	4100	NA		32.236193 -81.013512
10/1/2018	MRG04	910	23.07	23.39	0.321		5.63	5.81	0.15	1.6	00		NF	Too low to get flow reading	32.444164 -80.627131
10/1/2018	CSW01	NS													32.556240 -80.693540
10/1/2018	CSW03	NS													32.580105 -80.698511
10/1/2018	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 vicinity)
 CLDY = Cloudy Skies
 R = Rain (Thunderstorm or Continuous due to frontal system passage)

Additional Comments:

WET EVENT

COC #003429

Weather Code	Tide Stage
00 = (Clear; NSW)	2000 = EBB
01 = (Fair Weather)	2100 = 1/4 Fld
02 = (Cloudy Skies)	2200 = 1/2 Fld
22 = (Rain/Storm)	2300 = 3/4 Fld
	4000 = FLOOD
	4300 = 3/4 Ebb
	4200 = 1/2 Ebb
	4100 = 1/4 Ebb

**Beaufort County
MS4-319 Monitoring
2018**

Col. Date	Site ID	Col. Time	MPN E. Coli	MPN Fecal	MPN Enterococcus	MPN E. Coli	MPN Fecal	MPN Enterococcus	Remarks
			(MPN/100 mL)	(MPN/100 mL)	(MPN/100 mL)	Dilution	Dilution	Dilution	
10/1/2018	MRG03	920	1627.5	4082.0		5	5		
10/1/2018	BATT04	NS							
10/1/2018	OKW3A	1145	53.5	581.0		5	5		
10/1/2018	MRW02 (MRR02)	1130	894.5	1306.5		5	5		
10/1/2018	NRW01	1104	175.0	253.0	443.0	10	10	10	
10/1/2018	MRG04	857	1191.0	2737.5		5	5		
10/1/2018	CSW01	NS							
10/1/2018	CSW03	NS							
10/1/2018	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

Beaufort County
MS4-319 Monitoring
2018.00

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 Phosphorus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) mg/L	Metals-Lead (Pb) mg/L	Metals-Zinc (Zn) mg/L	Metals-Mercury (Hg) mg/L	Remarks
10/1/2018	MRG03	920	3.0	0.79	0.60	<0.050	0.62	<0.10	4.4	<0.0050	<0.0025	<0.020		
10/1/2018	BATT04	NS												
10/1/2018	OKW3A	1145	3.0	24	0.75	0.078	0.83	0.11	8.8	<0.0050	<0.0025	<0.020		
10/1/2018	MRW02 (MRR02)	1130	3.0	6.5	0.84	<0.050	0.84	0.77	8.8	<0.0050	<0.0025	<0.020		
10/1/2018	NRW01	1104	3.0	2.0	0.68	<0.050	0.71	<0.10	5.1	<0.0050	<0.0025	<0.020	<0.00020	
10/1/2018	MRG04	0857	3.9	3.4	0.73	0.074	0.80	0.082	3.2	<0.0050	<0.0025	<0.020		
10/1/2018	CSW01	NS												
10/1/2018	CSW03	NS												
10/1/2018	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

**Beaufort County
MS4-319 Monitoring
2018**

Date of Collection	Site ID	Time of Collection	Air Temperature (°C)	Water Temperature (°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
10/8/2018	MRG03	NS												32.430800 -80.630610
10/8/2018	BATT04	1020	24.53	26.64	46.4	2.50	6.15	30.17	18.8	01	4300	*	*Too low to get reading	32.424450 -80.725150
10/8/2018	OKW3A	NS												32.278760 -80.945870
10/8/2018	MRW02 (MRR02)	NS												32.240785 -80.885964
10/8/2018	NRW01	NS												32.236193 -81.013512
10/8/2018	MRG04	NS												32.444164 -80.627131
10/8/2018	CSW01	1047	25.20	25.39	0.211	3.81	7.63	0.10	31.6	01	NA	*	*No Flow	32.556240 -80.693540
10/8/2018	CSW03	1057	26.20	26.90	27.3	3.17	6.73	16.78	8.4	01	2000	*	*Too low to get reading	32.580105 -80.698511
10/8/2018	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 vicinity)
- CLDY = Cloudy Skies
- R = Rain (Thunderstorm or Continuous due to frontal system passage)

Additional Comments:

WET EVENT

COC #003427

Weather Code	Tide Stage
00 = (Clear; NSW)	2000 = EBB
01 = (Fair Weather)	2100 = 1/4 Fld
02 = (Cloudy Skies)	2200 = 1/2 Fld
22 = (Rain/Storm)	2300 = 3/4 Fld
	4000 = FLOOD
	4300 = 3/4 Ebb
	4200 = 1/2 Ebb
	4100 = 1/4 Ebb

**Beaufort County
MS4-319 Monitoring
2018**

Col. Date	Site ID	Col. Time	MPN E. Coli	MPN Fecal	MPN Enterococcus	MPN E. Coli	MPN Fecal	MPN Enterococcus	Remarks
			(MPN/100 mL)	(MPN/100 mL)	(MPN/100 mL)	Dilution	Dilution	Dilution	
10/8/2018	MRG03	NS							
10/8/2018	BATT04	1010	7701.0	594.0		10	10		
10/8/2018	OKW3A	NS							
10/8/2018	MRW02 (MRR02)	NS							
10/8/2018	NRW01	NS							
10/8/2018	MRG04	NS							
10/8/2018	CSW01	1040	>12098	>12098		5	5		
10/8/2018	CSW03	1053	723.0	738.0		10	10		
10/8/2018	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

Beaufort County
MS4-319 Monitoring
2018

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 Phosphorus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) mg/L	Metals-Lead (Pb) mg/L	Metals-Zinc (Zn) mg/L	Metals-Mercury (Hg) mg/L	Remarks
10/8/2018	MRG03	NS												
10/8/2018	BATT04	1010	24	8.9	<0.20	0.060	0.25	<0.10	28	<0.0050	<0.0025	<0.020		
10/8/2018	OKW3A	NS												
10/8/2018	MRW02 (MRR02)	NS												
10/8/2018	NRW01	NS												
10/8/2018	MRG04	NS												
10/8/2018	CSW01	1040	6.4	71	1.1	0.18	1.3	0.71	21	<0.0050	0.0046	0.023		
10/8/2018	CSW03	1053	24	6.9	0.38	0.043	0.42	<0.10	12	<0.0050	<0.0025	<0.020		
10/8/2018	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

**Beaufort County
MS4-319 Monitoring
2018**

Date of Collection	Site ID	Time of Collection	Air Temperature (°C)	Water Temperature (°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
11/2/2018	MRG03	NS												32.430800 -80.630610
11/2/2018	BATT04	916	23.14	21.04	29.9	3.19	5.99	18.40	17.8	02	4300	*	*Too low to get flow reading	32.424450 -80.725150
11/2/2018	OKW3A	NS												32.278760 -80.945870
11/2/2018	MRW02 (MRR02)	NS												32.240785 -80.885964
11/2/2018	NRW01	1107	21.57	18.92	1.84	5.70	8.08	1.10	6.5	02	4300	*	*Too low to get flow reading	32.236193 -81.013512
11/2/2018	MRG04	NS												32.444164 -80.627131
11/2/2018	CSW01	NS												32.556240 -80.693540
11/2/2018	CSW03	NS												32.580105 -80.698511
11/2/2018	CBS01	1008	21.16	21.66	46.3	1.18	6.99	30.16	15.9	02	4300	*	*Too low to get flow reading	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 vicinity)
- CLDY = Cloudy Skies
- R = Rain (Thunderstorm or Continuous due to frontal system passage)

Additional Comments:

DRY EVENT

COC #003435

Weather Code	Tide Stage
00 = (Clear; NSW)	2000 = EBB
01 = (Fair Weather)	2100 = 1/4 Fld
02 = (Cloudy Skies)	2200 = 1/2 Fld
22 = (Rain/Storm)	2300 = 3/4 Fld
	4000 = FLOOD
	4300 = 3/4 Ebb
	4200 = 1/2 Ebb
	4100 = 1/4 Ebb

**Beaufort County
MS4-319 Monitoring
2018**

Col. Date	Site ID	Col. Time	MPN E. Coli	MPN Fecal	MPN Enterococcus	MPN E. Coli	MPN Fecal	MPN Enterococcus	Remarks
			(MPN/100 mL)	(MPN/100 mL)	(MPN/100 mL)	Dilution	Dilution	Dilution	
11/2/2018	MRG03	NS							
11/2/2018	BATT04	906	1259.0	121.0		10	10		
11/2/2018	OKW3A	NS							
11/2/2018	MRW02 (MRR02)	NS							
11/2/2018	NRW01	1102	300.0	299.0	<10	10	10	10	
11/2/2018	MRG04	NS							
11/2/2018	CSW01	NS							
11/2/2018	CSW03	NS							
11/2/2018	CBS01	1002	3654.0	2613.0		10	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

Beaufort County
MS4-319 Monitoring
2018

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 Phosphorus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) mg/L	Metals-Lead (Pb) mg/L	Metals-Zinc (Zn) mg/L	Metals-Mercury (Hg) mg/L	Remarks
11/2/2018	MRG03	NS												
11/2/2018	BATT04	906	<24	4.9	0.87	<0.05	0.91	0.250	7.9	<0.005	<0.0025	<0.020		
11/2/2018	OKW3A	NS												
11/2/2018	MRW02 (MRR02)	NS												
11/2/2018	NRW01	1102	<24	5.3	0.77	0.06	0.83	,0.10	7.2	<0.005	<0.0025	<0.020	<0.00020	
11/2/2018	MRG04	NS												
11/2/2018	CSW01	NS												
11/2/2018	CSW03	NS												
11/2/2018	CBS01	1002	<24	0.82	0.41	0.082	0.49	0.14	20.0	<0.005	<0.0025	<0.020		

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

**Beaufort County
MS4-319 Monitoring
2018**

Date of Collection	Site ID	Time of Collection	Air Temperature (°C)	Water Temperature (°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
11/5/2018	MRG03	1010	21.24	20.42	0.118	6.07	6.44	0.06		8.0	22	4100	*	FLOW TOO LOW TO GET DISCHARGE READING	32.430800 -80.630610
11/5/2018	BATT04	NS													32.424450 -80.725150
11/5/2018	OKW3A	1208	21.79	19.70	0.140	5.53	7.30	0.07		6.8	02		*	FLOW TOO LOW TO GET DISCHARGE READING	32.278760 -80.945870
11/5/2018	MRW02 (MRR02)	1326	22.34	18.98	0.247	1.45	7.03	0.12		2.2	22		*	FLOW TOO LOW TO GET DISCHARGE READING	32.240785 -80.885964
11/5/2018	NRW01	1430	20.42	18.70	2.22	4.87	6.45	1.13		6.9	22	4200	*	FLOW TOO LOW TO GET DISCHARGE READING	32.236193 -81.013512
11/5/2018	MRG04	950	21.20	19.90	0.255	5.14	6.22	0.13		26.6	22		*	FLOW TOO LOW TO GET DISCHARGE READING	32.444164 -80.627131
11/5/2018	CSW01	1047	21.48	19.18	0.177	2.83	6.51	0.09		29.3	02		*	FLOW TOO LOW TO GET DISCHARGE READING	32.556240 -80.693540
11/5/2018	CSW03	1110	21.47	19.74	15.6	5.38	6.43	9.10		49.4	02	4200	*	FLOW TOO LOW TO GET DISCHARGE READING	32.580105 -80.698511
11/5/2018	CBS01	1247	22.24	20.63	16.1	6.07	6.54	9.37		13.3	02	4300	*	FLOW TOO LOW TO GET DISCHARGE READING	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 vicinity)
 CLDY = Cloudy Skies
 R = Rain (Thunderstorm or Continuous due to frontal system passage)

Additional Comments:

WET EVENT

COC #003436

Weather Code	Tide Stage
00 = (Clear; NSW)	2000 = EBB
01 = (Fair Weather)	2100 = 1/4 Fld
02 = (Cloudy Skies)	2200 = 1/2 Fld
22 = (Rain/Storm)	2300 = 3/4 Fld
	4000 = FLOOD
	4300 = 3/4 Ebb
	4200 = 1/2 Ebb
	4100 = 1/4 Ebb

**Beaufort County
MS4-319 Monitoring
2018**

Col. Date	Site ID	Col. Time	MPN E. Coli	MPN Fecal	MPN Enterococcus	MPN E. Coli	MPN Fecal	MPN Enterococcus	Remarks
			(MPN/100 mL)	(MPN/100 mL)	(MPN/100 mL)	Dilution	Dilution	Dilution	
11/5/2018	MRG03	1001	5231.0	12098.0		5	5		
11/5/2018	BATT04	NS							
11/5/2018	OKW3A	1205	6016.5	6498.5		5	5		
11/5/2018	MRW02 (MRR02)	1322	563.0	540.5		5	5		
11/5/2018	NRW01	1350	576.0	426.0	241.0	10	10	10	
11/5/2018	MRG04	945	19863.0	14136.0		10	10		
11/5/2018	CSW01	1050	1670.0	4884.0		10	10		
11/5/2018	CSW03	1100	>24196	>24196		10	10		
11/5/2018	CBS01	1243	4106.0	3448.0		10	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

Beaufort County
MS4-319 Monitoring
2018

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 Phosphorus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) mg/L	Metals-Lead (Pb) mg/L	Metals-Zinc (Zn) mg/L	Metals-Mercury (Hg) mg/L	Remarks
11/5/2018	MRG03	1001	<3.0	10	0.41	<0.050	0.43	<0.10	8.4	<0.0050	<0.0025	<0.020		
11/5/2018	BATT04	NS												
11/5/2018	OKW3A	1205	2.1	24	0.73	0.065	0.80	0.10	7.4	0.02	<0.0025	<0.020		
11/5/2018	MRW02 (MRR02)	1322	<3.0	4.2	0.68	0.140	0.82	0.49	8.0	<0.0050	<0.0025	<0.020		
11/5/2018	NRW01	1350	<3.0	1.1	0.84	0.42	1.30	<0.10	5.6	<0.0050	<0.0025	<0.020	<0.00020	
11/5/2018	MRG04	945	<3.0	2.6	0.68	0.28	0.96	0.18	17	<0.0050	<0.0025	<0.020		
11/5/2018	CSW01	1050	2.1	5.0	0.75	0.12	0.87	0.34	21	<0.0050	<0.0025	<0.020		
11/5/2018	CSW03	1100	<3.0	5.0	0.73	<0.050	0.77	0.20	53	<0.0050	<0.0025	<0.020		
11/5/2018	CBS01	1243	2.1	19	0.54	<0.050	0.58	0.23	21	<0.0050	<0.0025	<0.020		

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

**Beaufort County
MS4-319 Monitoring
2018**

Date of Collection	Site ID	Time of Collection	Air Temperature (°C)	Water Temperature (°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
11/5/2018	MRG03	NS												32.430800 -80.630610
11/5/2018	BATT04	1356	20.15	19.55	0.5	6.14	6.01	0.25	4.6	02	4200	*	DISCHARGE WOULD NOT CALC	32.424450 -80.725150
11/5/2018	OKW3A	NS												32.278760 -80.945870
11/5/2018	MRW02 (MRR02)	NS												32.240785 -80.885964
11/5/2018	NRW01	NS												32.236193 -81.013512
11/5/2018	MRG04	NS												32.444164 -80.627131
11/5/2018	CSW01	NS												32.556240 -80.693540
11/5/2018	CSW03	NS												32.580105 -80.698511
11/5/2018	CBS01	1454	20.28	20.75	19.7	6.89	6.24	11.66	9.0	22	4200	*	DISCHARGE WOULD NOT CALC	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 vicinity)
- CLDY = Cloudy Skies
- R = Rain (Thunderstorm or Continuous due to frontal system passage)

Additional Comments:

WET EVENT

COC #003391

Weather Code	Tide Stage
00 = (Clear; NSW)	2000 = EBB
01 = (Fair Weather)	2100 = 1/4 Fld
02 = (Cloudy Skies)	2200 = 1/2 Fld
22 = (Rain/Storm)	2300 = 3/4 Fld
	4000 = FLOOD
	4300 = 3/4 Ebb
	4200 = 1/2 Ebb
	4100 = 1/4 Ebb

**Beaufort County
MS4-319 Monitoring
2018**

Col. Date	Site ID	Col. Time	MPN E. Coli	MPN Fecal	MPN Enterococcus	MPN E. Coli	MPN Fecal	MPN Enterococcus	Remarks
			(MPN/100 mL)	(MPN/100 mL)	(MPN/100 mL)	Dilution	Dilution	Dilution	
11/13/2018	MRG03	NS							
11/13/2018	BATT04	1356	399.0	384.0		10	10		
11/13/2018	OKW3A	NS							
11/13/2018	MRW02 (MRR02)	NS							
11/13/2018	NRW01	NS							
11/13/2018	MRG04	NS							
11/13/2018	CSW01	NS							
11/13/2018	CSW03	NS							
11/13/2018	CBS01	1454	426.0	408.0		10	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

**Beaufort County
MS4-319 Monitoring
2018**

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 Phosphorus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) mg/L	Metals-Lead (Pb) mg/L	Metals-Zinc (Zn) mg/L	Metals-Mercury (Hg) mg/L	Remarks
11/13/2018	MRG03	NS												
11/13/2018	BATT04	1356	23	5.7	0.62	0.13	0.75	<0.10	5.2	<0.0050	<0.0025	<0.020		
11/13/2018	OKW3A	NS												
11/13/2018	MRW02 (MRR02)	NS												
11/13/2018	NRW01	NS												
11/13/2018	MRG04	NS												
11/13/2018	CSW01	NS												
11/13/2018	CSW03	NS												
11/13/2018	CBS01	1454	24	15	0.71	<0.050	0.73	0.23	15	<0.0050	<0.0025	<0.020		

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

**Beaufort County
MS4-319 Monitoring
2018**

Date of Collection	Site ID	Time of Collection	Air Temperature (°C)	Water Temperature (°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
12/6/2018	MRG03	1057	11.50	12.18	0.180	8.95	6.14	0.09	0.0	01	4300	*	DISCHARGE WOULD NOT CALC	32.430800 -80.630610	
12/6/2018	BATT04	NS													32.424450 -80.725150
12/6/2018	OKW3A	1359	11.93	11.73	0.10	6.75	6.48	0.02	3.7	01		*	DISCHARGE WOULD NOT CALC	32.278760 -80.945870	
12/6/2018	MRW02 (MRR02)	1335	13.71	10.75	2.181	8.04	6.30	0.08	1.0	01		*	DISCHARGE WOULD NOT CALC	32.240785 -80.885964	
12/6/2018	NRW01	NS													32.236193 -81.013512
12/6/2018	MRG04	1036	10.95	9.86	0.217	5.81	6.01	0.10	4.8	01		*	DISCHARGE WOULD NOT CALC	32.444164 -80.627131	
12/6/2018	CSW01	1214	11.65	9.96	0.109	4.88	6.27	0.05	5.2	01		*	DISCHARGE WOULD NOT CALC	32.556240 -80.693540	
12/6/2018	CSW03	1153	9.03	8.67	1.91	10.30	6.25	0.97	10.1	01	4200	*	DISCHARGE WOULD NOT CALC	32.580105 -80.698511	
12/6/2018	CBS01	NS													32.241518 -80.811203

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

Additional Comments:
 DRY EVENT

COC #003439

Weather Code	Tide Stage
00 = (Clear; NSW)	2000 = EBB
01 = (Fair Weather)	2100 = 1/4 Fld
02 = (Cloudy Skies)	2200 = 1/2 Fld
22 = (Rain/Storm)	2300 = 3/4 Fld
	4000 = FLOOD
	4300 = 3/4 Ebb
	4200 = 1/2 Ebb
	4100 = 1/4 Ebb

**Beaufort County
MS4-319 Monitoring
2018**

Col. Date	Site ID	Col. Time	MPN E. Coli	MPN Fecal	MPN Enterococcus	MPN E. Coli	MPN Fecal	MPN Enterococcus	Remarks
			(MPN/100 mL)	(MPN/100 mL)	(MPN/100 mL)	Dilution	Dilution	Dilution	
12/6/2018	MRG03	1055	25.5	37.0		5	5		
12/6/2018	BATT04	NS							
12/6/2018	OKW3A	1357	172.5	207.0		5	5		
12/6/2018	MRW02 (MRR02)	1332	543.0	782.5		5	5		
12/6/2018	NRW01	NS							
12/6/2018	MRG04	1034	136.0	65.5		5	5		
12/6/2018	CSW01	1210	72.5	91.5		5	5		
12/6/2018	CSW03	1150	350.0	703.0		10	10		
12/6/2018	CBS01	NS							

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Beaufort County
MS4-319 Monitoring
2018

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 Phosphorus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) mg/L	Metals-Lead (Pb) mg/L	Metals-Zinc (Zn) mg/L	Metals-Mercury (Hg) mg/L	Remarks
12/6/2018	MRG03	1055	<2.0		0.24	0.077	0.32	<0.10	<1.0	<0.005	<0.0025	<0.020	NS	Resample for Chlorophyll-a
12/6/2018	BATT04	NS												Resample for Chlorophyll-a
12/6/2018	OKW3A	1357	<2.0		0.91	1300*	1300	0.18	3.6	<0.0050	<0.0025	<0.020	NS	*1000 dilution factor/resample for Chlorophyll-a
12/6/2018	MRW02 (MRR02)	1332	<2.0		0.92	0.068	0.99	0.16	1.5	<0.0050	<0.0025	<0.020	NS	Resample for Chlorophyll-a
12/6/2018	NRW01	NS												
12/6/2018	MRG04	1034	2.2		0.85	<0.050	0.85	<0.10	10	<0.0050	<0.0025	<0.020	NS	Resample for Chlorophyll-a
12/6/2018	CSW01	1210	3.4		0.67	<0.050	0.69	0.26	3.8	<0.0050	<0.0025	<0.020	NS	Resample for Chlorophyll-a
12/6/2018	CSW03	1150	<2.0		0.72	<0.050	0.73	0.13	4.4	<0.0050	<0.0025	<0.020	NS	Resample for Chlorophyll-a
12/6/2018	CBS01	NS												

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NF = No Flow Observed at sample site

NW = No Water Observed at sample site

ND = No Data recorded

**Beaufort County
MS4-319 Monitoring
2018**

Date of Collection	Site ID	Time of Collection	Air Temperature (°C)	Water Temperature (°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
12/13/2018	MRG03	NS												32.430800 -80.630610
12/13/2018	BATT04	NS												32.424450 -80.725150
12/13/2018	OKW3A	NS												32.278760 -80.945870
12/13/2018	MRW02 (MRR02)	NS												32.240785 -80.885964
12/13/2018	NRW01	NS												32.236193 -81.013512
12/13/2018	MRG04	NS												32.444164 -80.627131
12/13/2018	CSW01	NS												32.556240 -80.693540
12/13/2018	CSW03	NS												32.580105 -80.698511
12/13/2018	CBS01	NS												32.241518 -80.811203

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- CLR = Clear Skies
- F = Fair Weather (Partly Cloudy, no Thunderstorm/Rain event occurred in vicinity)
- CLDY = Cloudy Skies
- R = Rain (Thunderstorm or Continuous due to frontal system passage)

Additional Comments:

DRY EVENT

COC# TA680-162099

Weather Code	Tide Stage
00 = (Clear; NSW)	2000 = EBB
01 = (Fair Weather)	2100 = 1/4 Fld
02 = (Cloudy Skies)	2200 = 1/2 Fld
22 = (Rain/Storm)	2300 = 3/4 Fld
	4000 = FLOOD
	4300 = 3/4 Ebb
	4200 = 1/2 Ebb
	4100 = 1/4 Ebb

**Beaufort County
MS4-319 Monitoring
2018**

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	MPN Fecal	MPN Enterococcus	Remarks
						Dilution	Dilution	Dilution	
12/13/2018	MRG03	NS							
12/13/2018	BATT04	NS							
12/13/2018	OKW3A	NS							
12/13/2018	MRW02 (MRR02)	NS							
12/13/2018	NRW01	NS							
12/13/2018	MRG04	NS							
12/13/2018	CSW01	NS							
12/13/2018	CSW03	NS							
12/13/2018	CBS01	NS							

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Beaufort County
MS4-319 Monitoring
2018

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 Phosphorus (T-P) mg/L	Total Suspended Solids (TSS) mg/L	Metals-Copper (Cu) mg/L	Metals-Lead (Pb) mg/L	Metals-Zinc (Zn) mg/L	Metals-Mercury (Hg) mg/L	Remarks
12/13/2018	MRG03	1012	NS	1.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	
12/13/2018	BATT04	NS												
12/13/2018	OKW3A	1146	NS	6.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	
12/13/2018	MRW02 (MRR02)	1158	NS	8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	
12/13/2018	NRW01	NS												
12/13/2018	MRG04	1008	NS	13	NS	NS	NS	NS	NS	NS	NS	NS	NS	
12/13/2018	CSW01	1052	NS	0.50	NS	NS	NS	NS	NS	NS	NS	NS	NS	
12/13/2018	CSW03	1057	NS	0.50	NS	NS	NS	NS	NS	NS	NS	NS	NS	
12/13/2018	CBS01	NS												

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

Beaufort County Comprehensive Water Quality Monitoring Plan



November 2018

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

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1 Introduction

In 2016, Beaufort County developed a “Monitoring and Assessment Plan for TMDL and Impaired Waters” document and began implementation of monitoring. Much data has been collected in various locations throughout the County in an effort to determine baseline water quality at outfalls. During a program assessment in 2018, the County determined that a refined focus was needed on TMDL waters, as well as on impaired streams. This document outlines that focus and replaces the previous monitoring plan dated December 1, 2016. Additional categories of monitoring have been included in this document as well.

2 Monitoring Point Summary

Monitoring locations were chosen to meet the Countywide monitoring goals, found in section 3. The locations are summarized in Table 1 below, along with the monitoring category. Explanations of the monitoring categories can also be found in Section 3.

Table 1. Monitoring point summary

Point Name	Monitoring Category	Point Name	Monitoring Category	Point Name	Monitoring Category
BCCC1	1, 4	SHPOX1	5	CS-03A	4,5
BCCC2	1, 4	SHPOX2	5	OKWP1	5
BCOK1	1, 4	SHPIN	5	OKWPBG	5
BCOK2	1, 4	SHPOUT	5	OKWPBOX	5
BCOK3	1, 4	SMPIN	5	OKWPOUT	5
OKW3A	1, 4	SMPOUT	5	OKWP2	5
New1	3, 4	BMPRGIN	5	OKWP3	5
BCD-PR	3	BMPRGOUT	5	SCPIN	5
BCD-HC	3	WMP-IN	5	SCPOUT	5
BCD-CR	3	WMP-OUT	5	BMPIDIN	5
BCD-LM	3	WMP-WET	5	BMPIDOUT	5
BCD-RS	3, 5	WMP-278	5	BMPPCIN	5
BCD-YM	3	BL#4IN	5	BMPPCOUT	5
BCBR1	3, 4	BL#4OUT	5	BMPTBIN	5
BCBR2	3, 4	BL#3IN	5	BMPTBOUT	5
BCBR3	3, 4	BL#3OUT	5	BMPHSIN	5
BCBR4	3, 4	CW-01	4,5	BMPHSOUT	5
BCBR5	3, 4	CW-01A	4,5	DUP	3, 4, 5
BCBR6	3, 4	CW-02	4,5	DDown	3, 4, 5
BCBR7	3	CW-03	4,5	Warehouse	3, 4, 5
				Sands	3, 4, 5
				MRR02	1, 4

3 Monitoring Strategy

3.1 Monitoring goals and categories

The County’s monitoring goals are as follows:

- Develop an understanding of baseline water quality in the County's streams.
- Identify and remove non-stormwater (or illicit) discharges from the stormwater system to protect better the health of streams and rivers within the County.
- Determine if discharges from the County's SMS4 are or may be contributing to an impairment or TMDL in streams and rivers within the County. As of the date of this revised monitoring plan, there are three TMDLs impacting the County: Beaufort River Dissolved Oxygen TMDL and Okatie and Chechessee Fecal Coliform TMDLs. There are numerous impaired stream segments within the County as well.
- Comply with the County's SMS4 permit requirements.
- On a project by project basis, develop an understanding of the effectiveness of best management practices installed in the County as they relate to water quality.

The County's comprehensive monitoring program is divided into 5 categories as follows:

- **Category 1. TMDL monitoring.** The County's SMS4 permit requires that the County monitor TMDL watersheds to determine the SMS4's contribution. This category of points has been established based upon the Beaufort River, Okatie River and Chechessee River TMDL documents.
- **Category 2. IDDE screening and monitoring.** The County's SMS4 permit also requires that the County identify priority areas to screen outfalls for illicit discharges. The County's illicit discharge detection and elimination program includes multiple screening priorities, one of which is focused on known impaired streams. This category includes those impaired streams and places a priority on a desktop analysis and outfall screening in those watersheds to search for potential contributors to those impairments.
- **Category 3. Water quality monitoring.** The County also monitors water quality in streams that are impaired in an effort to determine causes and begin moving towards improvements. This category of monitoring includes monitoring stations based upon the 303(d) list.
- **Category 4. MOA points.** The County has entered into Memorandums of Agreement (MOAs) with several other agencies within Beaufort County. These points are monitoring points that fall under these agreements.
- **Category 5. Special Project monitoring.** Often, the County installs water quality BMPs and monitors those BMPs to show effectiveness. This category of points includes those special projects.

4 Partnerships

The County has developed several critical partnerships to help meet the objectives of this monitoring plan.

Town of Bluffton. Based upon the Memorandum of Agreement between the County and the Town, the County is performing baseline stormwater quality monitoring in the Colleton and the New Rivers and the Town of Bluffton is performing monitoring in the May River. The County's monitoring stations in the Colleton and the New River watersheds are identified below:

BCCC1
 BCCC2
 BCOK1
 BCOK2
 BCOK3

OKW3A
NEW1 (formerly NRW01)

Town of Port Royal. Based upon the Memorandum of Agreement between the County and Town, the County is performing outfall monitoring to determine baseline stormwater quality for the Town of Port Royal. The following stations are being monitored for baseline stormwater quality and/or special project monitoring:

BCBR2
BCBR3

In addition, Port Royal is also monitoring the following stations:

DUP
Ddown
Warehouse
Sands
CW-01
CW-01A
CW-02
CW-03
CW-03A

City of Beaufort. Based upon the Memorandum of Agreement between the County and City, the County is performing monitoring to determine baseline stormwater quality monitoring for the City of Beaufort. The following stations are being monitored for baseline stormwater quality:

BCBR5
BCBR6
BCBR4

University of South Carolina Beaufort. Based upon the Memorandum of Understanding between the County and USCB, the University is performing field work and data analysis for the County's comprehensive monitoring program as follows:

- The University is performing field grab sampling consistent with the protocols contained in their SOP.
- The University is completing at least 1 wet weather grab sample per location per quarter consistent with the protocols in their SOP.
- The University is analyzing the samples for the parameters identified in the contract with the County.
- The University will provide a data summary for each point quarterly.
- The County must complete an analytical water quality service request form for each point and constituents to be monitored.

5 TMDL Monitoring (Category 1)

5.1 Background on SMS4 permit requirements for TMDL monitoring

The County's SMS4 permit requires the development of a TMDL monitoring plan to determine pollutant levels discharged from the SMS4. The SMS4 permit, effective January 1, 2014, includes the following requirements for TMDL monitoring (Section 3.2.1.2.1 in the permit):

- *TMDL monitoring must be conducted for not less than two years.*
- *Samples and measurements taken for the purpose of the TMDL Monitoring Plan shall:*
 - (1) *Be representative of the SMS4 discharges,*
 - (2) *Be reasonably distributed in time, while maintaining representative sampling,*
 - (3) *Not be terminated for the purpose of preventing the analysis results from a permit or water quality violation,*
 - (4) *Describe and consider frequency, mass and/or rate of discharge, as appropriate, and,*
 - (5) *Be expressed in terms of units or measurements consistent with the requirements contained in the WLA.*
- *Monitoring must focus on the pollutant of concern or its surrogate.*
- *In-stream or outfall monitoring can be conducted.*
- *Stations to monitor must be considered representative of the MS4, be in an area that at least 25% of the area draining to the station must be MS4 or can include the entire TMDL watershed with the MS4.*
- *Sampling and lab analysis protocols must be developed*
- *Monitoring data must be provided with each annual report.*

Beaufort County has the following TMDLs:

- **Beaufort River, dissolved oxygen, approved April 2006**
- **Okatie River for shellfish fecal coliform, shellfish management area 18, approved September 2010**
- **Chechessee Creek for shellfish fecal coliform, shellfish management area 18, approved March 2013**

Sixty months after SMS4 permit issuance, the County is to develop and submit a TMDL implementation plan to DHEC. It should be noted that a new SMS4 general permit is expected to be issued at the beginning of 2019, so this criterion may be revised.

To determine monitoring points that are representative of the SMS4 area for each TMDL, an in-depth data analysis of each of the TMDL watersheds was performed. The following existing data sets were part of that analysis:

- Beaufort County's sub-watersheds, derived from LiDAR data from 2013 and aerials from 2018
- DHEC monitoring station locations

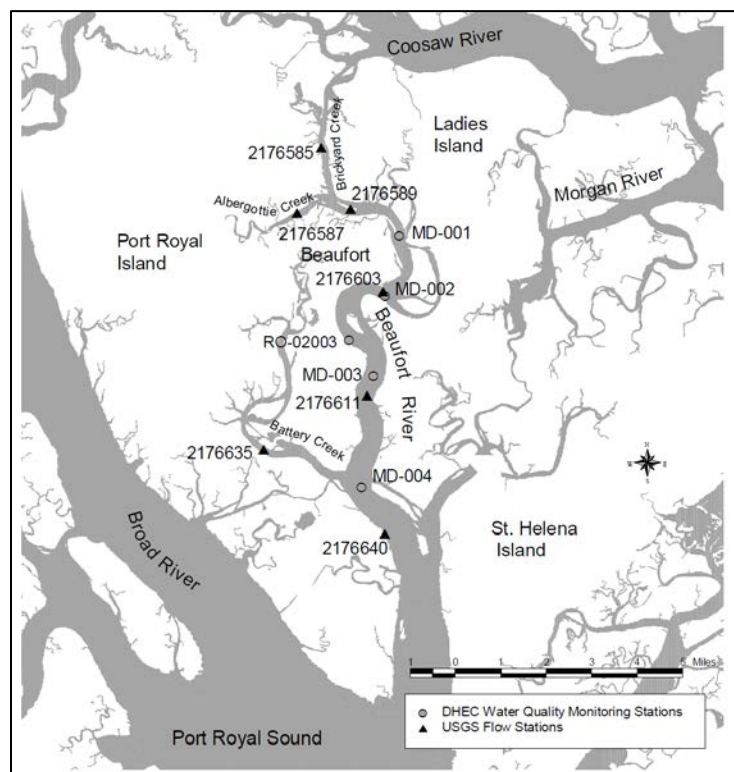
- County-owned or maintained drainage system and easements
- County and Town/City owned parcels
- Municipal boundaries
- Parcel development date and type

Most of the TMDL monitoring points are outfalls, though one is an instream point. For all TMDL monitoring points, wet weather samples will be collected quarterly, as the analysis relates to stormwater flows and not base flow. BCOK1 will also have once quarterly dry event monitoring, per the MOA with Bluffton.

5.2 Beaufort River TMDL for Dissolved Oxygen

Based upon the TMDL, the pollutants of concern are oxygen demanding substances, carbonaceous and nitrogenous biochemical oxygen demand. The numeric dissolved oxygen criteria is a daily average of 5.0 mg/l with a low of 4.0 mg/l for class SA and SFH waters. DHEC monitoring stations that are impaired are MD-001 located at the confluence of Albergotti Creek and Beaufort River, MD-002, MD-003, and MD-004 located at the confluence of Battery Creek and Beaufort River (see Figure 1). In addition, Albergotti and Battery Creeks are also considered impaired.

Figure 1. Impaired monitoring stations (from the DHEC Beaufort River TMDL)



The 2006 DO TMDL appears to point to the waste water dischargers along the Beaufort River as the primary source of DO issues. Modeling for the TMDL indicated that low dissolved oxygen is naturally occurring, and that the point dischargers (WWTFs) were exacerbating the low DO levels (see section 2 of the TMDL). Two scenarios were modeled to show compliance with water quality standards. Since the development of the TMDL, 2 of the 3 WWTFs have been closed down, so only one remains which is consistent with the 2nd scenario in the TMDL.

To understand the TMDL better, County staff reached out to DHEC’s TMDL office staff, Matt Carswell and Wade Cantrell, who indicated that stormwater wasn’t considered an issue when developing the Beaufort River TMDL. In addition, DHEC’s current water quality monitoring data were obtained that show all previously impaired stations on the Beaufort River are currently “fully supporting their designated use” which means that the River is no longer impaired. **It does not appear that stormwater was assigned a waste load allocation, and the TMDL does not apply to the MS4. Therefore, Beaufort County believes that MS4 TMDL monitoring is not required for the Beaufort River.**

5.3 Okatie and Chechessee Rivers’ TMDLs for Shellfish Fecal Coliform

Both the Okatie and Chechessee Rivers have separate TMDLs for fecal coliform and are shellfish areas. Land use and development are similar in both watersheds. Therefore, their monitoring plan has been developed together. Table 2 contains a breakdown of developed, undeveloped and water acreage in each watershed, by County subwatershed. These watersheds are primarily undeveloped land and marsh/open water. The County MS4 is very similar in both watersheds: low density residential development, roads and passive parks. The monitoring strategy in these watersheds is similar since the land use is similar. In the Okatie, residential development with County maintained drainage systems will be monitored. In the Chechessee, low density development and undeveloped properties will be monitored. The findings in each of these watersheds will apply to both TMDL watershed areas.

Table 2. Acreage Breakdown for Okatie and Chechessee Rivers TMDL Watersheds

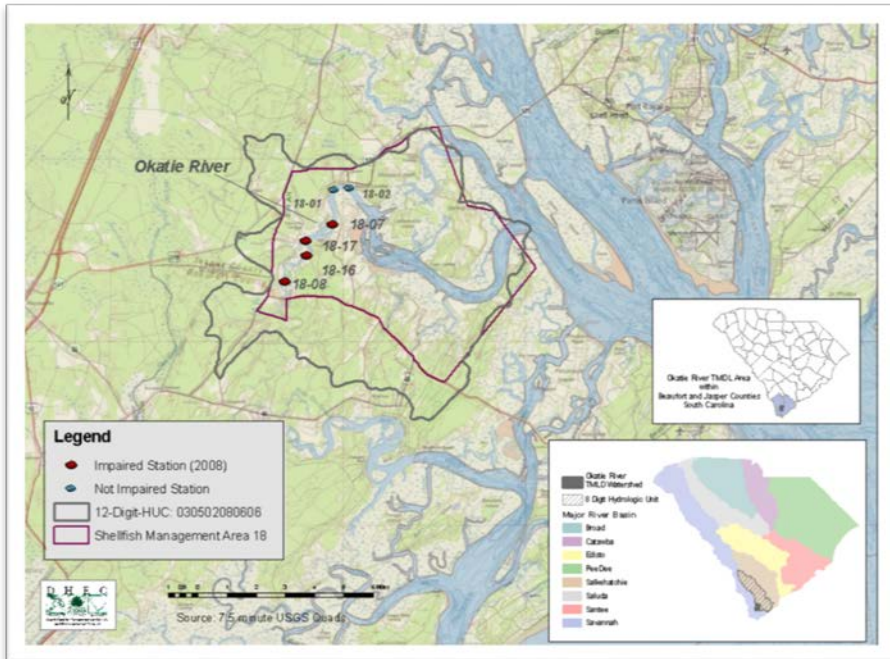
Subwatershed	Total watershed (ac)	Marsh and open water (ac)	% Watershed	Impervious surfaces (ac)	% Watershed	Undeveloped land (ac)	% Watershed
Okatie TMDL Watershed	8730	1616	19	715	8	6399	73
Okatie River 1	4348	1208	28	226	5	2914	67
Okatie River 2	930	361	39	59	6	510	55
Okatie River 3	3452	47	1	430	12	2975	86
Chechessee TMDL Watershed	9981	4600	46	348	3	5033	50
Colleton River 3	6291	3261	52	274	4	2756	44
Colleton River tidal flats	656	332	51	18	3	306	47
Chechessee Creek 1	1452	529	36	18	1	905	62

Chechessee Creek 2	1582	478	30	38	2	1066	67
-----------------------	------	-----	----	----	---	------	----

5.3.1 Okatie River TMDL Watershed.

Based upon the TMDL, the pollutant of concern is fecal coliform. The numeric criteria target is 40.9 cfu/100ml for shellfish areas (43 cfu/100ml less a 5% margin of safety). DHEC monitoring stations that are impaired are 18-07, 18-08, 18-16, and 18-17 as shown in Figure 2.

Figure 2. Okatie River TMDL area



The County subwatersheds that drain to these stations are depicted in Figure 3, as are County owned/maintained stormwater systems and easements. The majority of land ownership in this watershed is private, consisting of private, gated residential neighborhoods. Beaufort County assumes responsibility for some stormwater components (as indicated in Figure 3) but not all. The County owns several large parcels of land in this watershed and operates them as passive parks or as conservation areas. The representative monitoring points chosen can be found in Figures 3 and 4. All three monitoring points in this watershed are located at outfalls and will be monitored quarterly during wet weather events.

BCOK3 is located in the upper watershed below a low density residential subdivision built in the 1980's, where the County maintains the drainage system. Based upon information from BJWSA (see Appendix A), this subdivision appears to be on sewer. See Figure 4.

BCOK2 is located below a newer residential subdivision, built in the 2000's, where the County also maintains the stormwater system. Based upon information from BJWSA (see Appendix A), this subdivision appears to be on sewer. See Figure 5.

BCOK1 is located near the more densely-developed area near Bluffton. The drainage to this point contains both Town of Bluffton and County development, as well as private development. Based upon information from BJWSA (see Appendix A), this area appears to also be on sewer.

OKW3A is located below a large residential subdivision, build in the 2000's, where the community manages the Stormwater system. The subdivision includes 3 golf courses, and is on sewer. See Figure 3.

Figure 3 Okatie TMDL Watershed Area

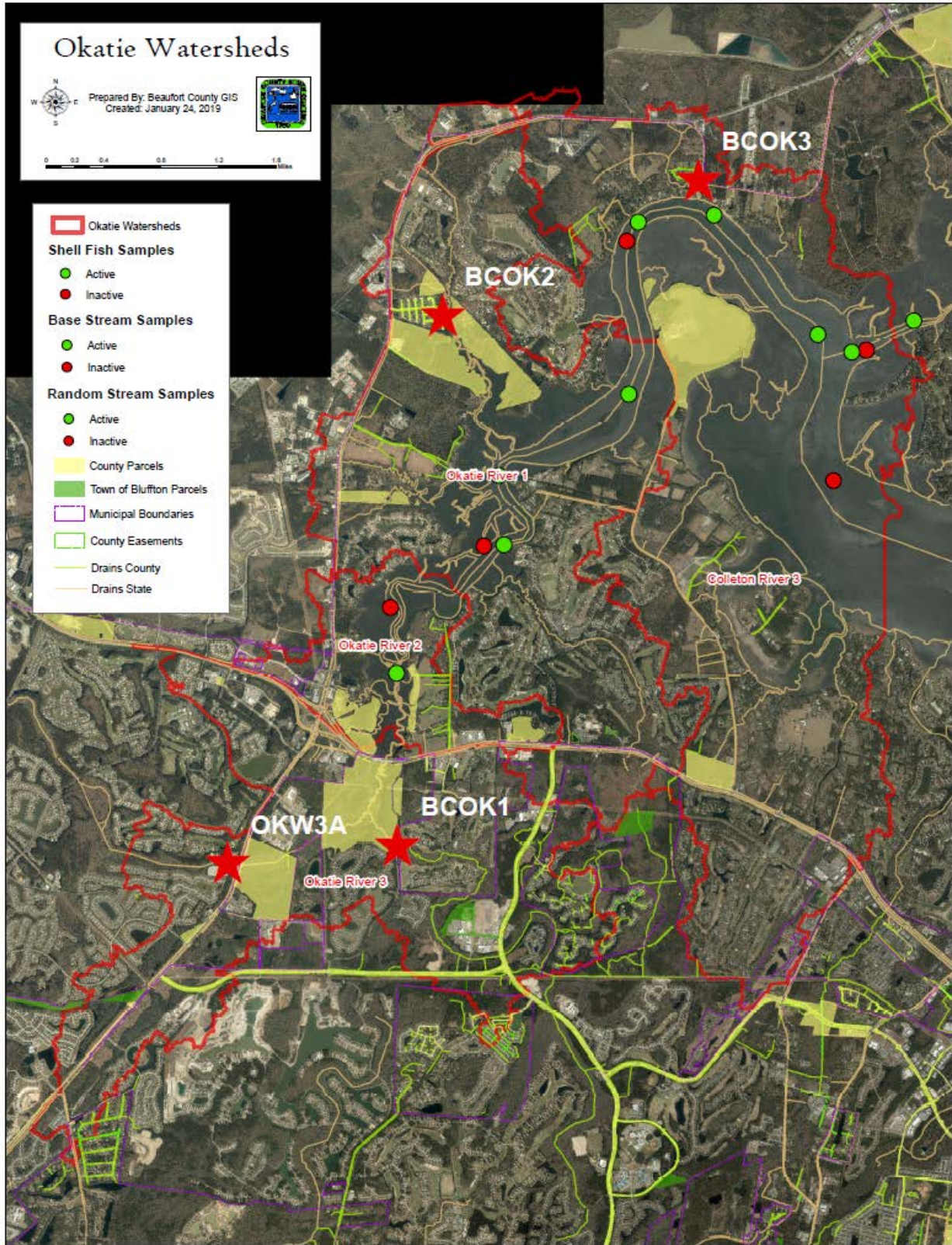


Figure 4 BCOK3 Monitoring Point Location (1980's residential development)

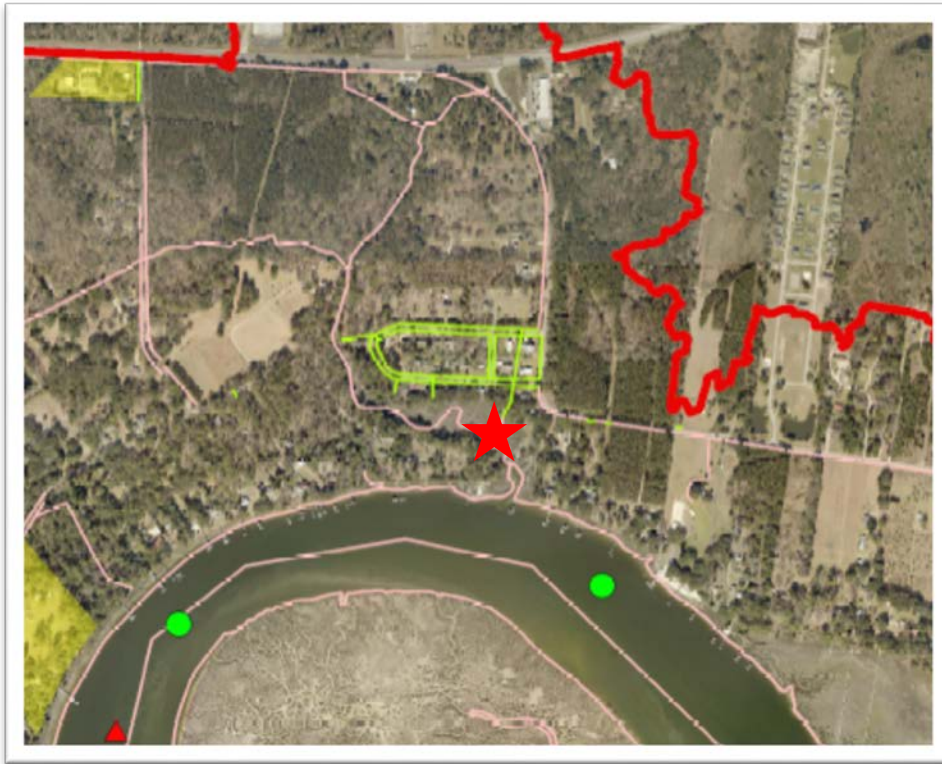


Figure 5 BCOK2 Monitoring Point Location (2000's residential development)



The table below contains the point locations, sampling type and a brief description for each point.

Table 3. Okatie TMDL Monitoring Points Summary

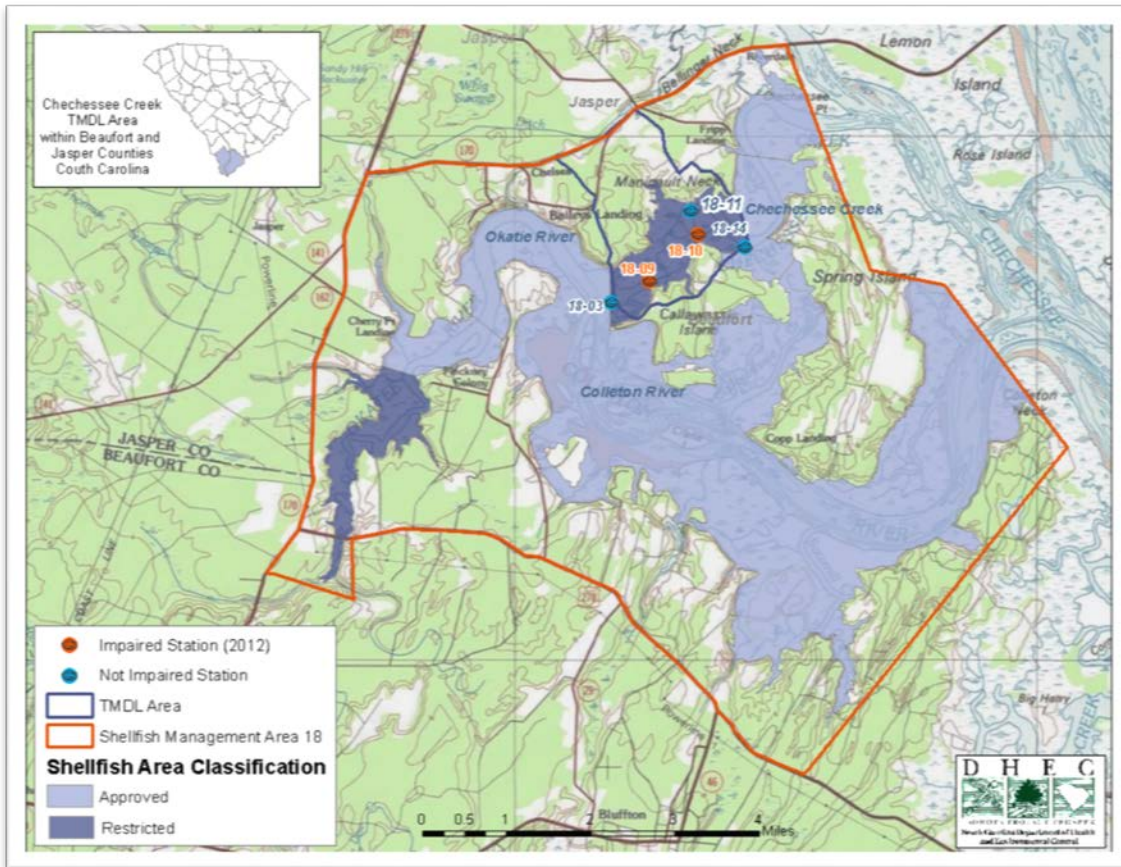
Point name	Latitude	Longitude	Sample type¹	Description of monitoring location
BCOK1	32.28091	-80.927427	IS	Okatie East retrofit project. Captures drainage from Town of Bluffton prior to going into Okatie River
BCOK2	32.334256	-80.922064	OF	Newer subdivision
BCOK3	32.347956	-80.891652	OF	Small development with County maintained roads, ditches, and pipes.
OKW3A	32.279024	-80.947612	IS	Captures large subdivision drainage prior to crossing under Highway 170 and entering the Okatie River.

Note: 1 Sample type is outfall (OF).

5.3.2 Chechessee River TMDL Watershed

A section of the Chechessee River is impaired and has a TMDL for fecal coliform. The impaired stations are 18-09 and 18-10 as depicted in Figure 6. The land near these impaired stations is primarily marsh. Upland areas are residential development and undeveloped passive parks and conservation areas.

Figure 6. Chechessee Creek TMDL area



In Figure 7 below, County owned properties and County maintained drainage systems are identified. Several large, undeveloped properties exist in this watershed, owned by either the County or the Town of Port Royal are located in this watershed. Other development includes private residential development. Much of the development in this area has sewer, based upon information from BJWSA (see Appendix A). Two monitoring locations are proposed for this watershed, both representing low density or undeveloped areas of the watershed.

BCCC1 is located below a mostly undeveloped area, where the County maintains the drainage system. This monitoring point will be located at an outfall and will be sampled during wet weather.

BCCC2 is also located at the outfall of a mostly-undeveloped watershed. The County maintains some roads and the drainage system above the monitoring point. This monitoring point will be located at an outfall and will be sampled during wet weather.

Figure 7. Chechessee TMDL Watershed Area

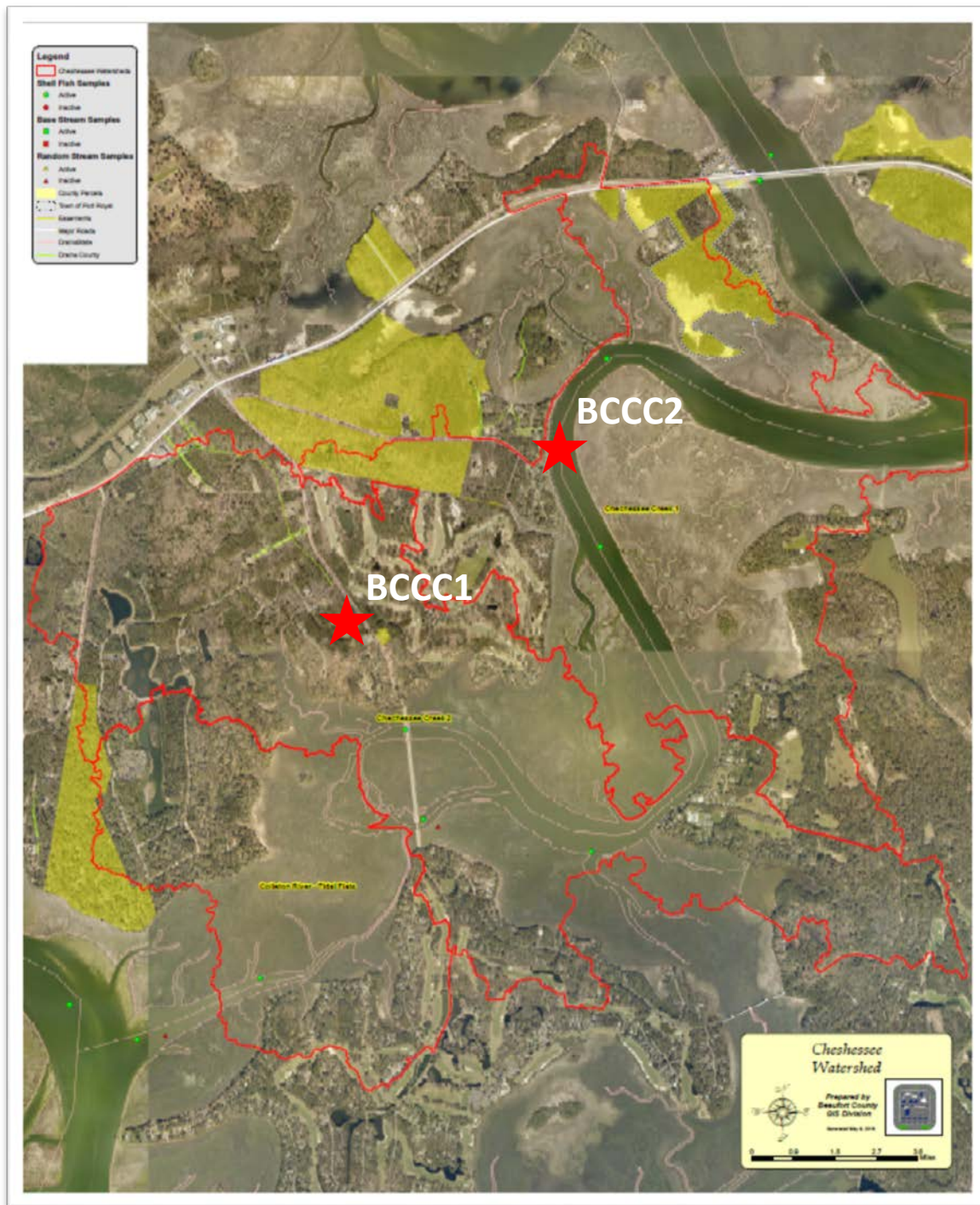


Table below contains a summary of the points, the locations of the points and the monitoring type.

Table 4. Chechessee TMDL Monitoring Points Summary

Point name	Latitude	Longitude	Sample type¹	Description of monitoring location
BCCC1	32.362725	-80.850829	OF	Discharge point for County owned, undeveloped land converges to this pipe. Located at the bottom left of a causeway.
BCCC2	32.355973	-80.864191	OF	Cross pipe from County owned roads. Drainage from County roads passes through pipe.

Note: 1 Sample type is outfall (OF).

5.4 Monitoring Schedule Summary for TMDL points

All monitoring points will be categorized as wet or dry sampling events based upon the criteria set in Section 5.6.

Category 1 TMDL water quality monitoring points will be sampled quarterly during wet weather while the tide is going out (ebb tide) to decrease the potential for a tidal influence in the samples. Samples should be collected during the first 3 hours of the rain event, if feasible. OKW3A will have one dry and one wet sampling event per quarter, as written in the Bluffton MOA.

5.5 Sample Analysis Summary

Field parameters monitored during each sampling event include air temperature, water temperature, dissolved oxygen (DO), conductivity/salinity, pH, turbidity and discharge. In addition, the following parameters will be analyzed for each point:

Table 5. Monitoring points and pollutants to be analyzed

Watershed	Point Number	Sample analyses
<i>Chechessee River</i>	BCCC1	E. Coli, Nitrate, Nitrite, Ammonia, P
	BCCC2	E. Coli
<i>Okatie River</i>	BCOK1	E. Coli
	BCOK2	E. Coli
	BCOK3	E. Coli
	OKW3A	E. Coli

5.6 Protocols

The monitoring goals in this plan are based upon stormwater and water quality criteria. To understand how to apply the criteria, samples must be identified as representative of stormwater (wet) or baseflow (dry) conditions. The following definitions apply to this monitoring plan sampling:

- Wet weather samples are collected during or immediately following a rain event, where the discharge at an outfall is primarily stormwater. To isolate discharges that are primarily stormwater, instream and outfall samples should be taken based upon the following criteria:
 - The depth of the storm must be greater than 0.1 inch accumulation
 - The storm event must be preceded by at least 72 hours of dry weather.
- Dry weather samples are collected when it is NOT raining. Dry weather sampling in a stream is indicative of baseflow conditions. In addition, dry weather flow at an outfall could be an indication of an illicit discharge.

Watershed conditions should be observed, and the rain event amounts that result in discharge at each sampling location should be determined. Additionally, sampling should occur for all locations in an outgoing tide.

All sample collection and analytical monitoring will be done in accordance with USCB SOP's which can be found in Appendix B. All sample analyses will be done by a lab that is certified through the SCDHEC.

Record keeping

All sampling records are provided routinely from the USCB laboratory. USCB also maintains equipment calibration and maintenance records and will provide these records upon request.

6 Impaired Streams

In addition to TMDL watersheds, the County also has streams that are considered impaired and therefore are on the 303(d) list. Table 6 contains the 303(d) listed streams from the final 2016 303(d) list and the draft 2018 303(d) list prepared by DHEC.

Table 6. 2016 and Draft 2018 303(d) list of impaired waterbodies

DHEC Point Name	Waterbody Information	Use	Impairment
<i>CSTL-098</i>	<i>COMBAHEE RVR AT US 17 10 MI ESE YEMASSEE</i>	<i>Aquatic life</i>	<i>DO</i>
	<i>COMBAHEE RVR AT US 17 10 MI ESE YEMASSEE</i>	<i>FISH</i>	<i>HG</i>
<i>RO-09367</i>	<i>bull river where William Creek and Wimbee Creek meet with the Bull River between Chisolm and Buzzard Islands Close to the Chisolm Island side of Bull River</i>	<i>Aquatic life</i>	<i>turbidity</i>
<i>RT-01643</i>	<i>Trib to Bull River, 7.5 M NS of Beaufort</i>	<i>Aquatic life</i>	<i>turbidity</i>
<i>RO-036037</i>	<i>Wimbee Creek 0.7 M SE of Mouth of S Wimbee CK</i>	<i>Aquatic life</i>	<i>turbidity</i>
<i>RO-14351</i>	<i>WIMBEE CREEK APPROX 1 MI NW OF THE MOUTH OF SOUTH WIMBEE CREEK AND SHELLFISH SITE 14-17</i>		<i>DO</i>
<i>RT-10115</i>	<i>Johnson Creek W of Harbor Island 1.75 M SW of West end of US21 bridge over Johnston Ck</i>	<i>Aquatic life</i>	<i>turbidity</i>
<i>RT-02015</i>	<i>Tidal Creek near confluence of Coosaw and Bull rivers Chisolm Island</i>	<i>Aquatic life</i>	<i>CU, turbidity</i>
<i>14-02</i>	<i>Campbell Creek at Whale Branch</i>	<i>Shellfish</i>	<i>FC</i>
<i>14-13A</i>	<i>First split on Halfmoon Creek on Southern side of Brown's Island</i>	<i>Shellfish</i>	<i>FC</i>
<i>RO-14354</i>	<i>Johnson Cr approx 1.4 mi SSW of US 21 bridge</i>	<i>Aquatic life</i>	<i>DO</i>
<i>RT-11015</i>	<i>McCalleys Creek 2.4 M upstream of shellfish site 15-33</i>	<i>Aquatic life</i>	<i>turbidity</i>

RT-02027	Trib to Sparrow Nest Ck near Datha Island	Aquatic life	CU
RT-032033	coffin creek 0.7 mi se of confl w/morgan river	Aquatic life	turbidity
RT-16131	coffin creek approx 330 M E of the end of N Front Dr	Recreation	Entero
16A-27	Coffin Creek mouth at Morgan River	Shellfish	FC
16A-28	Coffin Creek headwaters at shrimp docks	Shellfish	FC
16A-23	Edding Cr at small Trib between stations 9 and 18	Shellfish	FC
16A-18	Edding Cr at shrimp dock	Shellfish	FC
16A-09	Edding Creek at Morgan River	Shellfish	FC
16A-30	Jenkins Cr, 500ft N of stormwater at Dataw Island golf course	Shellfish	FC
16A-38	Pine Island Creek near confluence Village Creek	Shellfish	FC
16A-19	Rock Springs Creek, Upper reaches	Shellfish	FC
RT-15106	Cowen creek 0.7 miles sw of US hwy 21 bridge over cowen creek	Recreation	Entero
RT-032022	Coffin Cr 0.7 M SE of confluence w/morgan River	Aquatic life	turbidity
RO-11314	Coosaw River, midchannel between Bull River and Combahee River, 1 M east of shellfish site 14-04	Aquatic life	turbidity
RO-02001	Coosaw River near mouth of Combahee River	Aquatic life	Turbidity
RO-02005	COOSAW RVR NEAR MOUTH OF BULL RVR	Aquatic life	CU, TURBIDITY
RO-01163	Saint Helena Sound, 7M SW of Edisto Beach	Aquatic life	turbidity
RO-09371	St Helena sound below confluence of Morgan River & Coosaw River between the tips of S	Aquatic life	turbidity
15-19	battery creek 1000ft below rabbit island	Shellfish	FC
15-26	battery creek - picket fence trib (C6-97)	Shellfish	FC
15-27	battery creek - cherry hill trib (C6-97)	Shellfish	FC
15-28	battery creek - storm water outfall under rr track (C6-97)	Shellfish	FC
15-29	battery creek - trib on r side before battery shores (C6-97)	Shellfish	FC
15-30	battery creek cottage farms community dock (C6-97)	Shellfish	FC
15-03	mouth of albergottie and brickyard creek	Shellfish	FC
15-03A	Albergottie Creek 1.0 miles upstream of station 15-03	Shellfish	FC
15-03B	Albergottie Creek 700 ft SE of MCAS hunting club fishing pier	Shellfish	FC
15-20	Capers CR SSG at penn community srvcs retreat center	Shellfish	FC
15-33	McCalley Creek - 0.5 miles upstream of 15-01a (C7-01)	Shellfish	FC
15-25	Battery Creek - Dollingwood Trib (C6-97)	Shellfish	FC
MD-007	Pocotaligo River at US 17 at Pocotaligo	Recreation	Entero
MD-007	Pocotaligo River at US 17 at Pocotaligo	Aquatic life	turbidity
14-18	Huspah Creek at Bull Point - Whale Branch POG	Shellfish	FC
14-14	Huspah Creek at railroad trestle	Shellfish	FC
14-22	eastside of ss rr swing bridge on whale branch	Shellfish	FC
17-16A	Habersham Creek above station #16, first split	Shellfish	FC
RT-16125	Habersham creek approx 835 m from shellfish site 17-16A following creek path	Recreation	Entero
17-16	Broad River at Corn Island - mouth of creek	Shellfish	FC
17-21	middle creek and whale branch, confluence	Shellfish	FC

RO-01125	Colleton River at mouth of Callawassie Cr, 4.5M N of Bluffton	Aquatic life	DO
RT-13061	Sawmill cr approx 3/4 mi from shellfish site 18-06 - confluence with colleton river	Aquatic life	DO
RO-036032	Chechessee River 1.4M SE Confluence w/Colleton R	Aquatic life	DO
RO-01146	Chechessee River, 6.5M W of Port Royal	Aquatic life	DO
RO-036034	Port Royal Sound 1.8M SW of tip of Parris Island	Aquatic life	CU
RT-06021	New River 3.4 M SSE of SC 170 Bridge over New River	Recreation	Entero
19-19B	Bend in May R nearest High Bluff of Palmetto Bluff	Shellfish	FC
19-19C	first unnamed trib leading from Gasciogne Bluff	Shellfish	FC
19-19	May River at first dock in headwaters past Bluff	Shellfish	FC
19-19A	Unnamed trib near SW corner of Casciogne Bluff	Shellfish	FC

Based upon discussions with DHEC regarding the pollutants of concern for impaired streams. DHEC provided the following comments:

1. Heavy metals (CU and HG) are likely not from the County's MS4 area.
2. DHEC will not be focusing on developing turbidity TMDLs anywhere in the state in the near future.
3. Low dissolved oxygen (DO) appears to be a naturally occurring issue in the County and low country.

With this information in mind, the County will focus impaired stream monitoring efforts on bacteria impairments (fecal coliform and enterococcus).

In an effort to understand the cause(s) of the impairments, the County is implementing a 2-pronged approach to monitor these areas: conducting baseline water quality monitoring and visual screening of outfalls.

While the TMDL for Beaufort River does not pertain to stormwater, the County has determined that monitoring water quality in the Beaufort River, Albergotti Creek and Battery Creek is necessary. These waterbodies are being monitored under the County's baseline water quality monitoring program.

The following sections describe these approaches.

6.1 Visual screening of outfalls (IDDE priority area screening, Category 2)

Section 4.2.3 of the County's SMS4 permit requires the County to develop, implement and enforce a program to detect and eliminate illicit discharges to the County's SMS4. The Illicit Discharge Detection and Elimination (IDDE) program includes a map of the system, identification of priority areas, field screening, policies and procedures for tracking and removing any found illicit discharges, and staff training. This section of the monitoring plan identifies the priority areas for field screening for 2018 – 2019. Each year, these priority areas will be evaluated to determine if new priority areas should be identified.

6.1.1 Priority area identification for IDDE Screening

Two priority areas have been identified to focus IDDE screening efforts. These areas are generally indicated in Figures 8 and 9 below and were chosen based upon the DHEC 303(d) impaired streams list

stations in these areas. The stations were impaired due to fecal coliform. Priority area 1 (see Figure 8) contains the following 303(d) listed stations:

14-18
14-14
14-02
14-13A

Priority area 2 (see Figure 9) contains the following 303(d) listed stations:

16A-23
16A-38
16A-27
16A-28
16A-18
16A-30

To begin the process of screening, a desktop analysis of each area will be conducted to determine if failing septic systems could be a cause of the impairment. The County will work with Beaufort Jasper Water and Sewer Authority (BJWSA) to understand which properties are provided with sewer and which are on septic. Parcels will then be analyzed to determine age of development, and older developed parcels will be targeted for further investigation. Investigation may include any or all of the following:

- Identifying a ditch believed to be below the septic system, grabbing stormwater samples and analyzing for fecal coliform.
- Conducting field inspections of the older development parcels to look for evidence of failing septic systems.
- Coordinating with BJWSA to identify sanitary sewer overflows in these watersheds.

Documentation of the desktop analysis and follow-up steps will be provided in the County's annual report.

Figure 8. Priority area 1

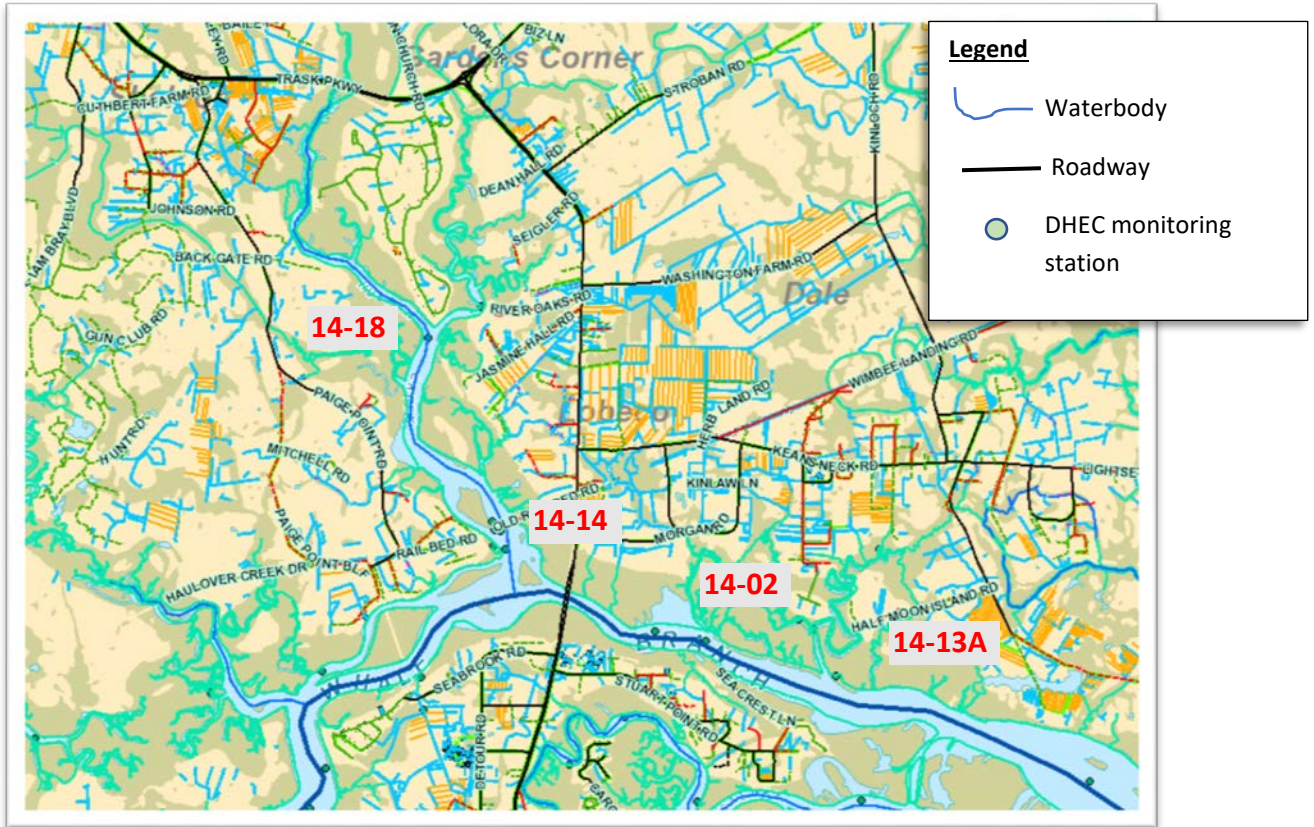
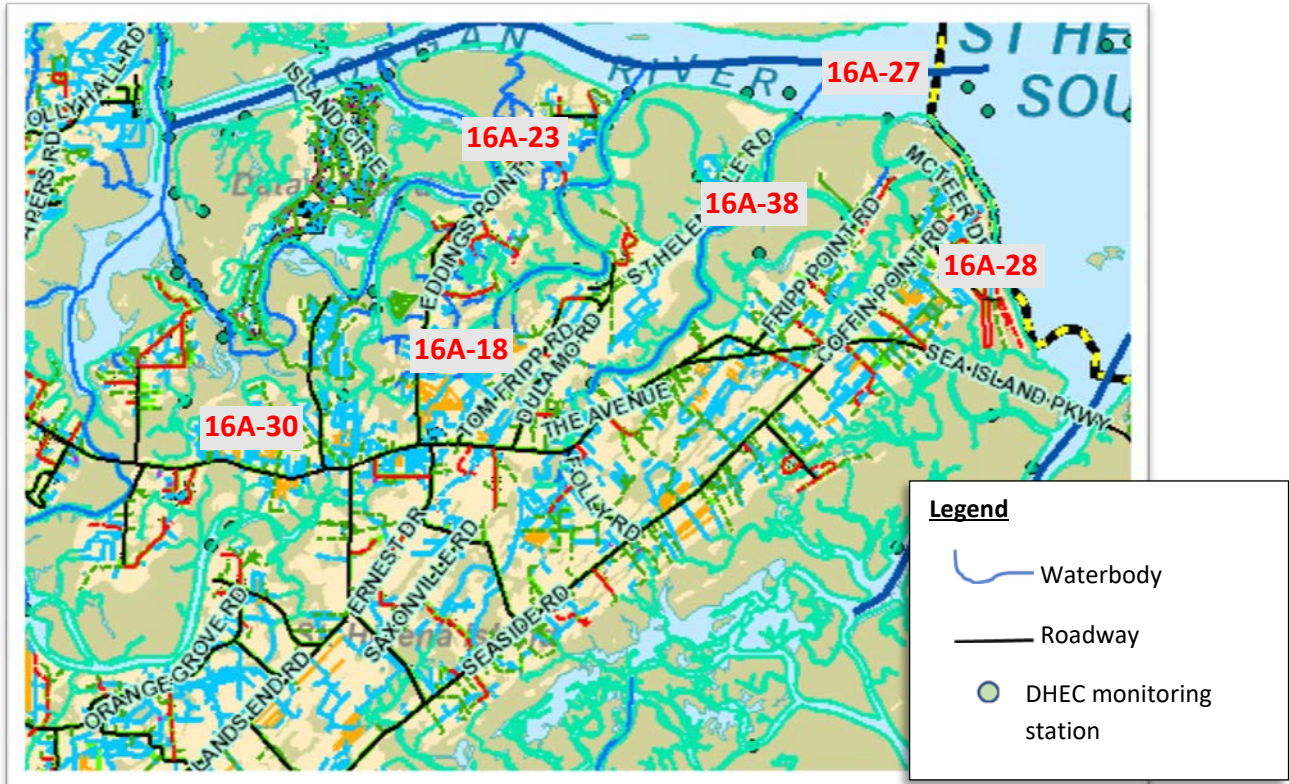


Figure 9. Priority area 2



6.1.2 IDDE program protocols

Appendix C of the Beaufort County BMP Manual contains the screening protocols and forms for the IDDE program. These protocols establish the field screening and sampling to be applied to these priority areas.

6.2 Baseline water quality monitoring of impaired streams (Category 3)

The County is conducting quarterly monitoring at the following locations in an effort to understand the County's potential impact on the receiving stream and to collect a larger dataset to aid future decisions. These monitoring points are identified in Table 7 below. Field parameters monitored during each sampling event include air temperature, water temperature, dissolved oxygen (DO), conductivity/salinity, pH, turbidity and flow. In addition, specific parameters are to be analyzed at each point as identified in the table below.

Table 7. Background water quality monitoring points for 303(d) streams

Point Name	Sample Type	Parameters to analyze	GPS location
<i>BCD-PR</i>	OF	Enterococcus	32.639401, -80.857303
<i>BCD-HC</i>	OF	Fecal coliform	32.481842, -80.7555708
<i>BCD-CR</i>	OF	Nitrate, nitrite, ammonia, fecal coliform	32.3135635, -80.8591359
<i>BCD-LM</i>	IS	Nitrate, nitrite, ammonia, fecal coliform	32.373752, -80.836215
<i>BCD-RS</i>	OF	Fecal coliform	32.442109, -80.628637
<i>BCD-YM</i>	IS	Nitrate, nitrite, ammonia, fecal coliform	32.650937, -80.687690
<i>BCBR1</i>	OF	Nitrate, nitrite, ammonia, fecal coliform	32.4095898, -80.7242011
<i>BCBR2</i>	OF	Nitrate, nitrite, ammonia, fecal coliform	32.3831697, -80.734907
<i>BCBR3</i>	OF	Nitrate, nitrite, ammonia, fecal coliform	32.270112, -80.686820
<i>BCBR4</i>	IS	Nitrate, nitrite, ammonia, fecal coliform, Entero	32.394572, -80.677906
<i>BCBR5</i>	IS	Nitrate, nitrite, ammonia, fecal coliform	32.429729, -80.670973
<i>BCBR6</i>	OF	Nitrate, nitrite, ammonia, fecal coliform	32.431819, -80.674322
<i>BCBR7</i>	OF	Nitrate, nitrite, ammonia, fecal coliform	32.440031, -80.687597
<i>New1</i>	IS	Enterococcus, mercury	32.236088, -81.013417
<i>DUP</i>	IS	E. Coli, Entero	32.379848, -80.708795
<i>Ddown</i>	IS	E. Coli	32.376107, -80.697182
<i>Warehouse</i>	IS	E. Coli	32.371361, -80.69.191984

Sands	IS	E. Coli, Entero	32.37.370011, -80.684614
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Note 1: Sample type – OF is outfall; IS is instream

All of the points in Table 7 are monitored once quarterly during wet weather. In addition, NEW1 will also be monitored at least once a quarter in dry weather (per the Bluffton MOA). In addition, BCBR4, DUP, and Sands will be sampled for enterococcus at higher frequencies during Quarters 2 and 3. Sampling protocols can be found in Section 5.6. All sample collection and analytical monitoring will be done in accordance with USCB SOP's which can be found in Appendix B. All sample analyses will be done by a lab that is certified through the SCDHEC.

6.2.1 Beaufort River monitoring

Beaufort River has a TMDL for dissolved oxygen. As outlined in section 5.2, the County's MS4 is not a contributor to that TMDL. However, the County is performing monitoring in the River to develop a baseline for water quality in the River and in its tributaries. The Beaufort County subwatersheds that drain to the TMDL watershed are depicted in Figure 10, as are County owned/maintained stormwater systems and easements. The majority of the land in the watershed is owned by the City of Beaufort, Town of Port Royal, and 2 military facilities. Properties in the unincorporated County are primarily privately owned. Street ownership is a mix of private, SCDOT, Town, City and County.

Figure 10. Beaufort River TMDL area

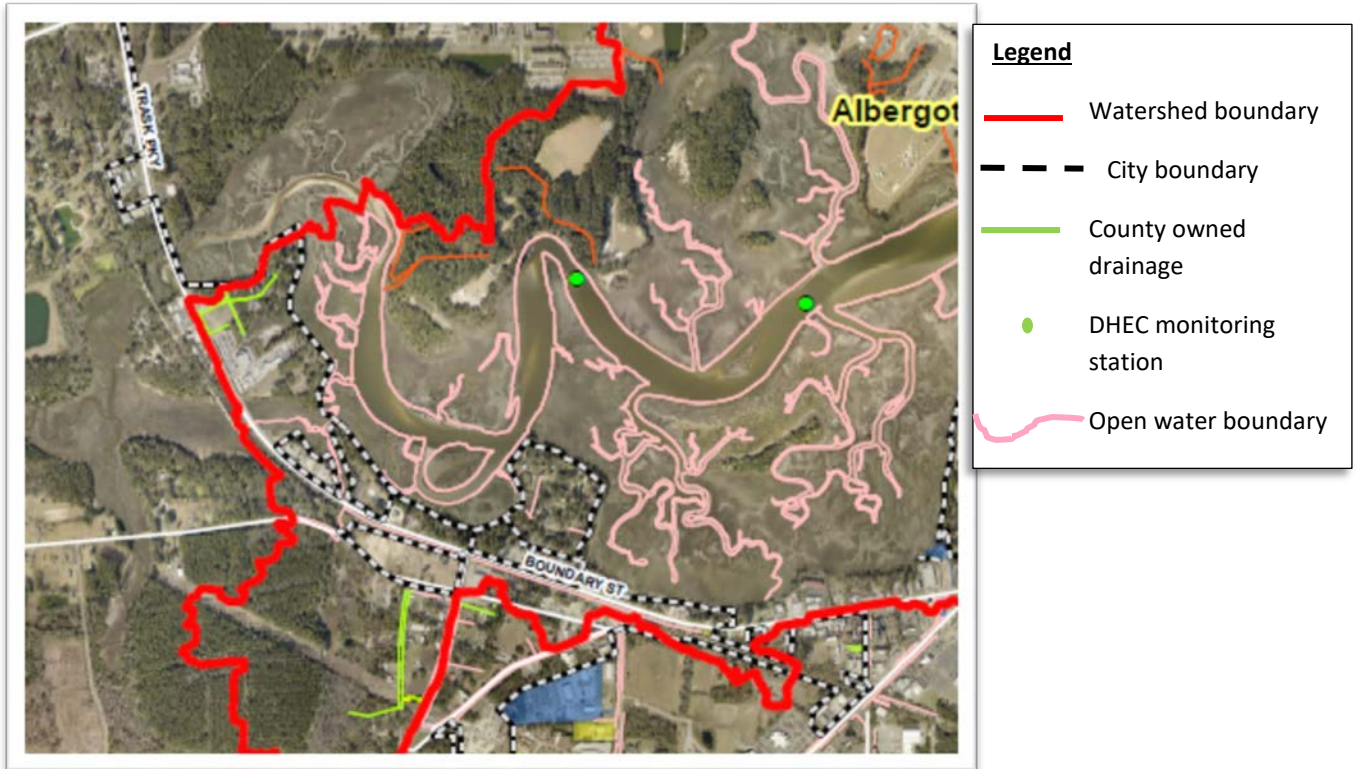


To determine monitoring locations, an analysis of the Beaufort River watershed was conducted. The analysis has been broken into 3 areas: Albergotti Creek, Battery Creek and Beaufort River.

6.2.2 Albergotti Creek.

Very little MS4 exists in the Albergotti Creek watershed, as shown in Figure 11. It should be noted that the fuzzy brown/grey areas along the creek (shown in pink) are marsh areas that are not developable and are significantly influenced by tides. As there is very little overall MS4 area in Albergotti Creek, monitoring locations were not selected in this watershed, and monitoring will not be conducted here.

Figure 11. Albergotti Creek TMDL area



6.2.3 Battery Creek.

An analysis of Battery Creek found more MS4 areas, as depicted in Figure 12. County owned/maintained stormwater system components are shown as green lines, County owned parcels are shown in yellow shading, and County stormwater easements are shown by yellow and black dashed lines. The County has chosen 4 points to monitor MS4 discharges in this subwatershed. All samples will be analyzed for the following parameters:

- Temperature
- pH
- DO
- Fecal coliform
- Nitrates
- Nitrites
- Ammonia
- Phosphorus
- In situ parameters

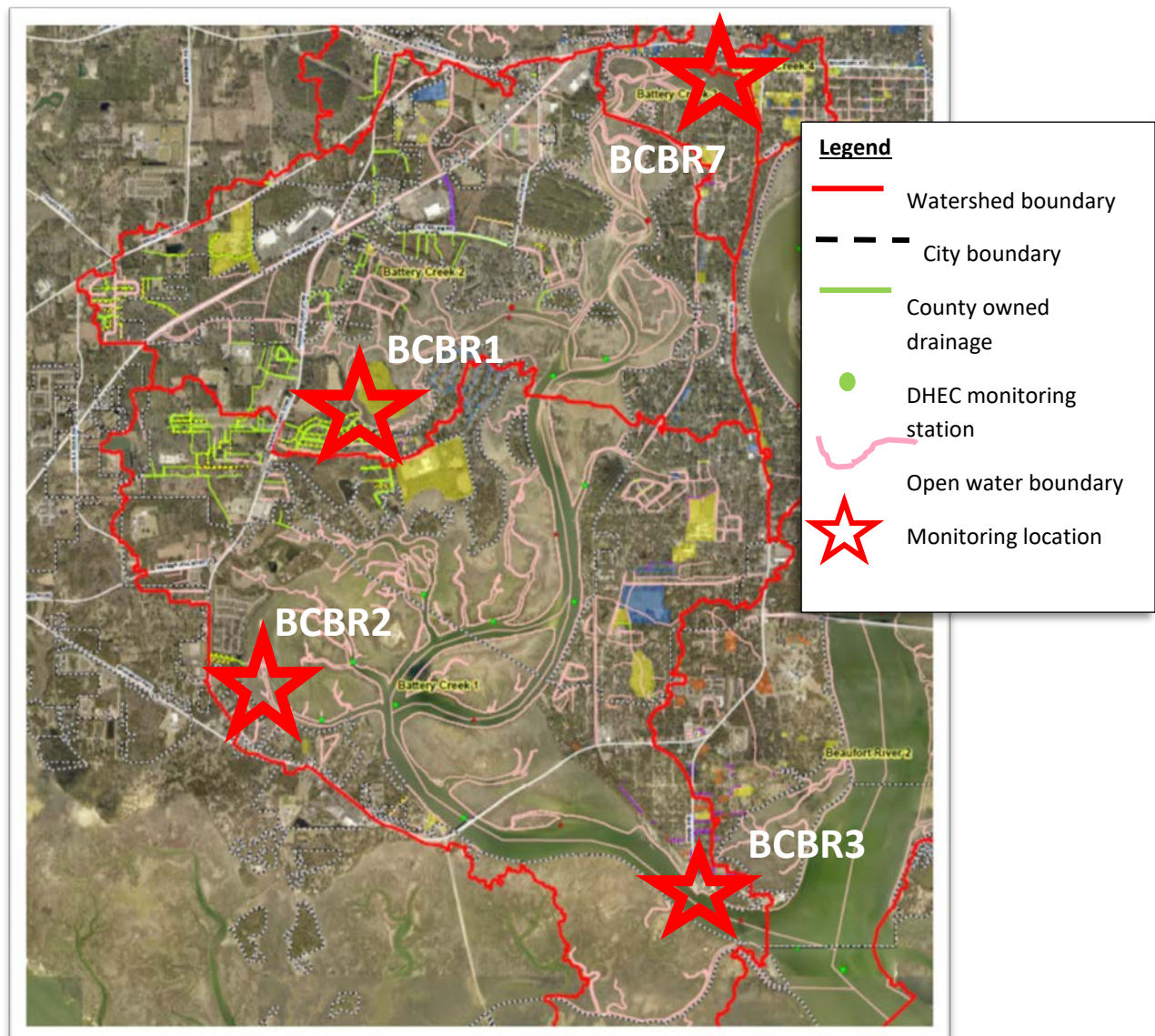
BCBR1 is located at an outfall to an area containing private residential subdivision lots in Mink Point Plantation subdivision where the County maintains the stormwater system. This monitoring point is located at the outlet of a pipe and will be representative of MS4 discharges from residential areas. Wet weather sampling only will be conducted at BCBR1, and samples will be grabbed as the tide is outgoing.

BCBR2 is located near the Savannah Highway and Parris Island Gateway road junctions at an outfall. Monitoring at this location will be during wet events, as the tide is going out.

BCBR3 is located at Sands Beach at the pier in Port Royal. This point is representative of more densely developed areas in the watershed. Monitoring at this location will be during wet events, as the tide is outgoing. It should be noted that Port Royal is also collecting samples at a redevelopment site at the same location. Those points are not shown on the map below.

BCBR7 is located at the head of Battery Creek near the County administration building complex near the intersection of Boundary Street and Marsh Road. This point is representative of high density development. Monitoring at this location will be during wet events. It is not believed that this point is tidally influenced.

Figure 12. Battery Creek TMDL Area



6.2.4 Beaufort River.

Figure 13 below identifies the section of the Beaufort River included in the TMDL, from the confluence with Albergetti Creek to the confluence with Battery Creek. The eastern side of the river has very little MS4 area. The bulk of the western side against the river has high density mixed use development. Other known dischargers in the watershed include Beaufort-Jasper Water and Sewer Authority. Three monitoring points have been selected for this subwatershed.

BCBR 4 and BCBR5 are both in stream monitoring points. BCBR4 is at the Port Royal Landing, and BCBR5 is located at the daily boat parking area.

BCBR6 is located at an outfall in downtown Beaufort close to the Bay Street parking lot.

Figure 13. Beaufort River TMDL Area

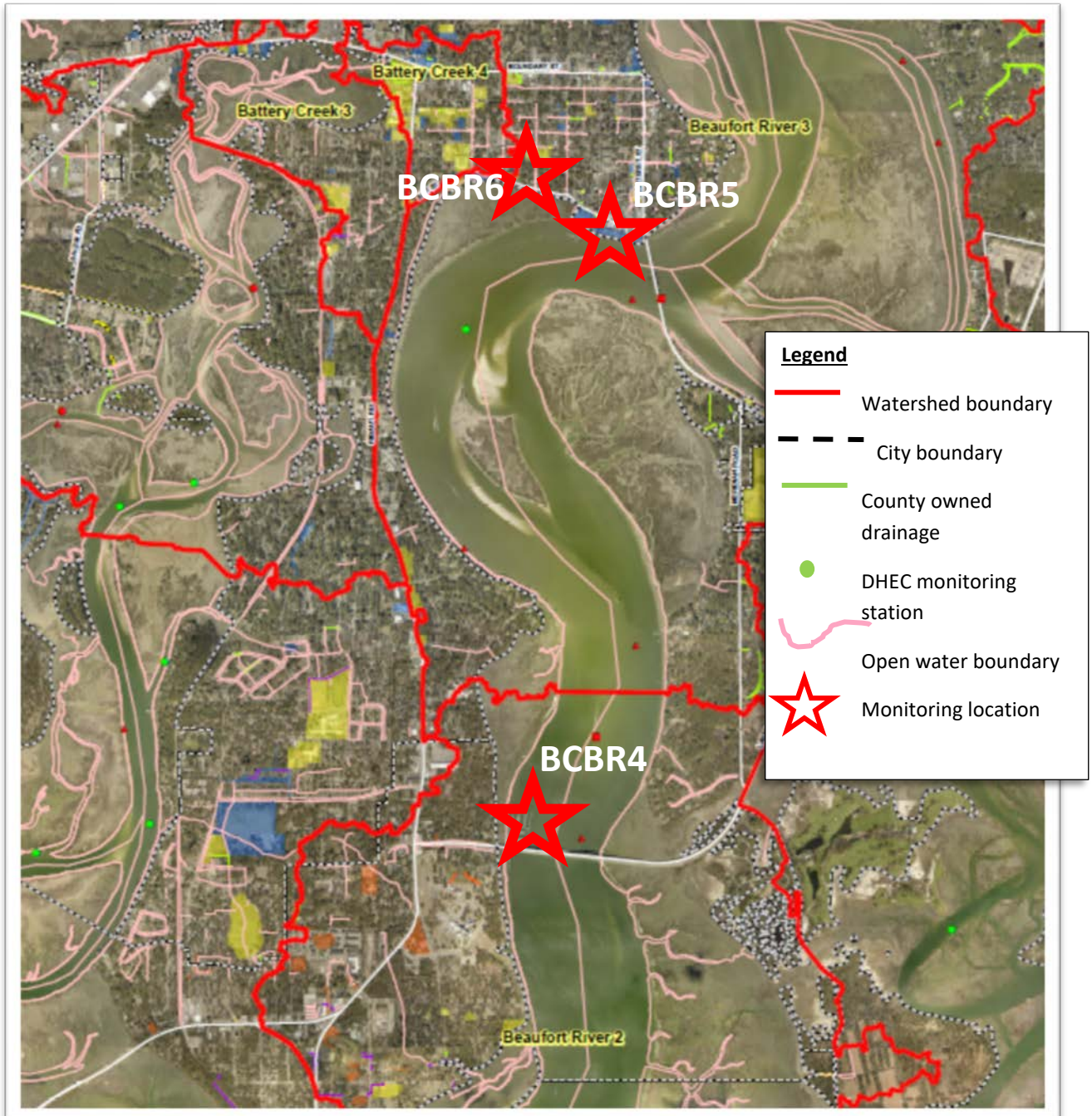
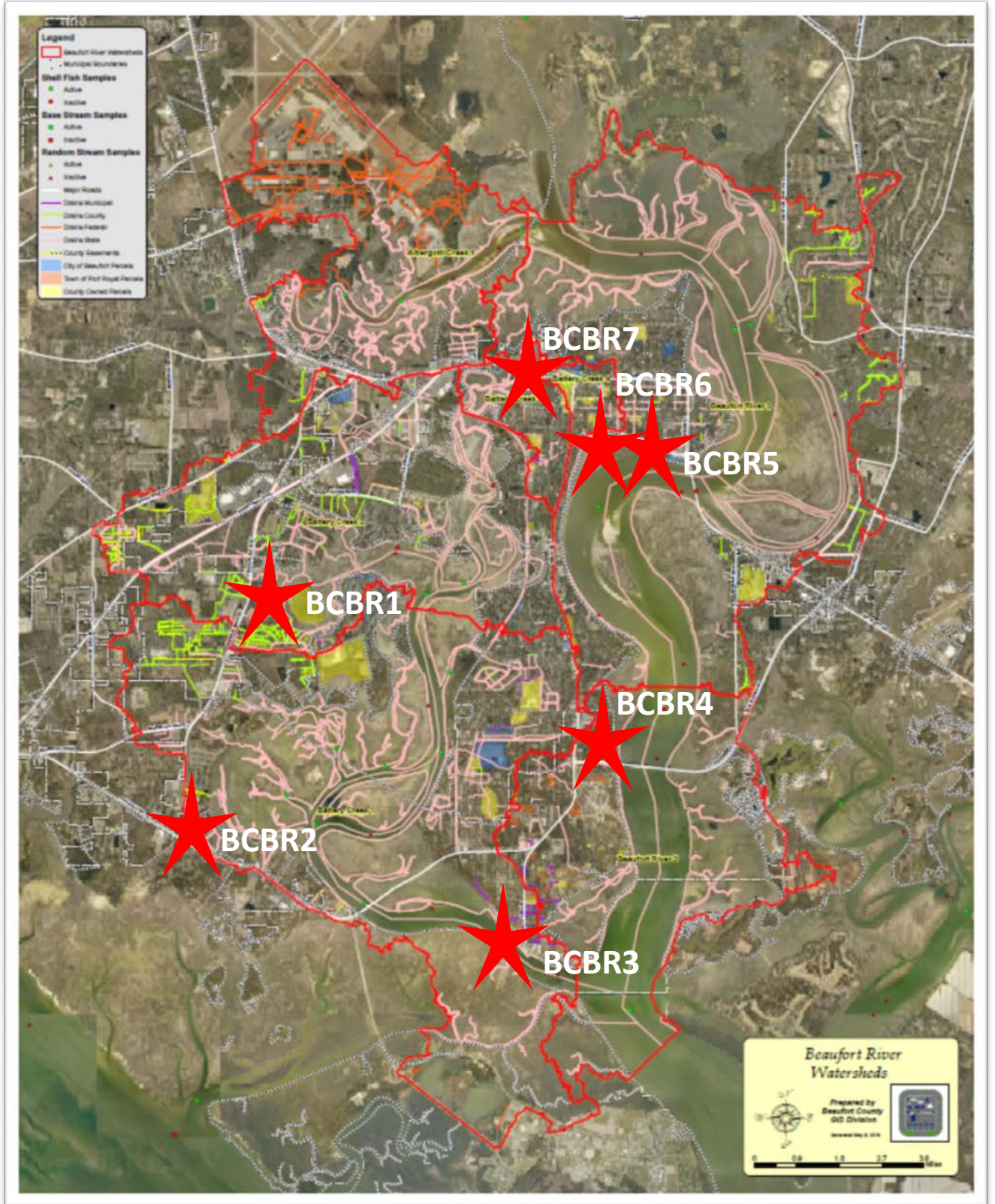


Figure 14 contains the full watershed analysis and indicates the locations of the monitoring points as red stars.

Figure 14. Analysis of Beaufort River TMDL Area



7 MOA Points (Category 4)

As indicated in Section 4 of this plan, the County has entered into agreements with the Town of Bluffton, the Town of Port Royal and the City of Beaufort. Those agreements identify monitoring points that are the responsibility of the County.

Town of Bluffton. For the Town of Bluffton, the County's monitoring stations in the Colleton and the New River watersheds are identified below:

- BCCC1
- BCCC2
- BCOK1
- BCOK2
- BCOK3
- OKW3A
- NEW1 (formerly NRW01)

All of the above points are TMDL monitoring points, except NEW1. New1 is a baseline water quality monitoring station.

Town of Port Royal. For the Town of Port Royal, the County is monitoring the following outfalls in the Beaufort River watershed for baseline stormwater quality and/or special project monitoring:

- BCBR2
- BCBR3

City of Beaufort. For the City of Beaufort, the County is monitoring the following Beaufort River watershed points for baseline stormwater quality:

- BCBR5
- BCBR6
- BCBR4

8 Special Project Monitoring (Category 5)

The County has identified monitoring needs at several projects to determine the effectiveness of BMPs. Field parameters monitored during each sampling event include air temperature, water temperature, dissolved oxygen (DO), conductivity/salinity, pH, turbidity and flow. In addition, specific parameters are to be analyzed at each point as identified in Table 8 below.

Table 8. Special project monitoring points

County monitoring point name	Project	Parameters to analyze	Description	GPS
WMP-IN	Walmart Pond	FC	Inlet at rain garden area, parking lot	32.257065, -80.855629

<i>WMP-OUT</i>	Walmart Pond	FC	Outfall Structure	32.26012500, -80.85723963
<i>WMP-WET</i>	Walmart Pond	FC	Wetland input before road	32.258872026, -80.86701481
<i>WMP-278</i>	Walmart Pond	FC	Outfall from Wetland and Pond, converging near road	32.26186678, -80.85459706
<i>BL#4IN</i>	Barrel Landing Pond	FC	Inlet	32.29447173, -80.93433199
<i>BL#4OUT</i>	Barrel Landing Pond	FC	Outfall	32.294560, -80.933913
<i>BL#3IN</i>	Barrel Landing Pond	FC	Inlet	32.290441, -80.931489
<i>BL#3OUT</i>	Barrel Landing Pond	FC	Outfall	32.290229, -80.930990
<i>CW-01</i>	Cypress Wetland	E.coli, N, P	Outfall	32.382336, -80.690843
<i>CW-01A</i>	Cypress Wetland	E.coli, N, P	Outfall	32.382013, -80.689307
<i>CW-02</i>	Cypress Wetland	E.coli, N, P	Outfall	32.381014, -80.690150
<i>CW-03</i>	Cypress Wetland	E.coli, N, P	Outfall	32.378182, -80.689059
<i>CS-03A</i>	Cypress Wetland	E.coli, N, P	Outfall	32.377754, -80.689542
<i>OKWP1</i>	Okatie West Pond	FC	Instream	32.279640, -80.940851
<i>OKWPBOX</i>	Okatie West Pond	FC	Outfall	32.278723, -80.9401380
<i>OKWPBG</i>	Okatie West Pond	FC	Outfall	32.278726, -80.9401440
<i>OKWPOUT</i>	Okatie West Pond	FC	Outfall	32.279741, -80.9405856
<i>OKWP3</i>	Okatie West Pond	FC	Instream	32.2827, -80.9338
<i>SCPIN</i>	Salt Creek Pond	FC,Ecoli	Outfall	TBD
<i>SCPOUT</i>	Salt Creek Pond	FC,Ecoli	Outfall	TBD
<i>SHPOX1</i>	Shanklin Pond	FC,Ecoli	Outfall	TBD
<i>SHPOX2</i>	Shanklin Pond	FC,Ecoli	Outfall	TBD
<i>SHPIN</i>	Shanklin Pond	FC,Ecoli	Outfall	TBD
<i>SHPOUT</i>	Shanklin Pond	FC,Ecoli	Outfall	TBD
<i>SMPIN</i>	Sawmill Creek Pond	FC,Ecoli	Outfall	TBD
<i>SMPOUT</i>	Sawmill Creek Pond	FC,Ecoli	Outfall	TBD
<i>BMPRGIN</i>	Brewer Memorial Park	FC,Ecoli	Outfall	TBD
<i>BMPRGOUT</i>	Brewer Memorial Park	FC,Ecoli	Outfall	TBD
<i>BMPIDIN</i>	Brewer Memorial Park	FC,Ecoli	Outfall	TBD
<i>BMPIDOUT</i>	Brewer Memorial Park	FC,Ecoli	Outfall	TBD
<i>BMPPCIN</i>	Brewer Memorial Park	FC,Ecoli	Outfall	TBD
<i>BMPPCOUT</i>	Brewer Memorial Park	FC,Ecoli	Outfall	TBD
<i>BMPTBIN</i>	Brewer Memorial Park	FC,Ecoli	Outfall	TBD

<i>BMPTBOUT</i>	Brewer Memorial Park	FC,Ecoli	Outfall	TBD
<i>BMPHSIN</i>	Brewer Memorial Park	FC,Ecoli	Outfall	TBD
<i>BMPHSOUT</i>	Brewer Memorial Park	FC,Ecoli	Outfall	TBD

Port Royal is monitoring two locations: the downtown redevelopment project and Cypress Wetlands. This special monitoring project locations are shown below.

Figure 15. Redevelopment Project Monitoring Locations

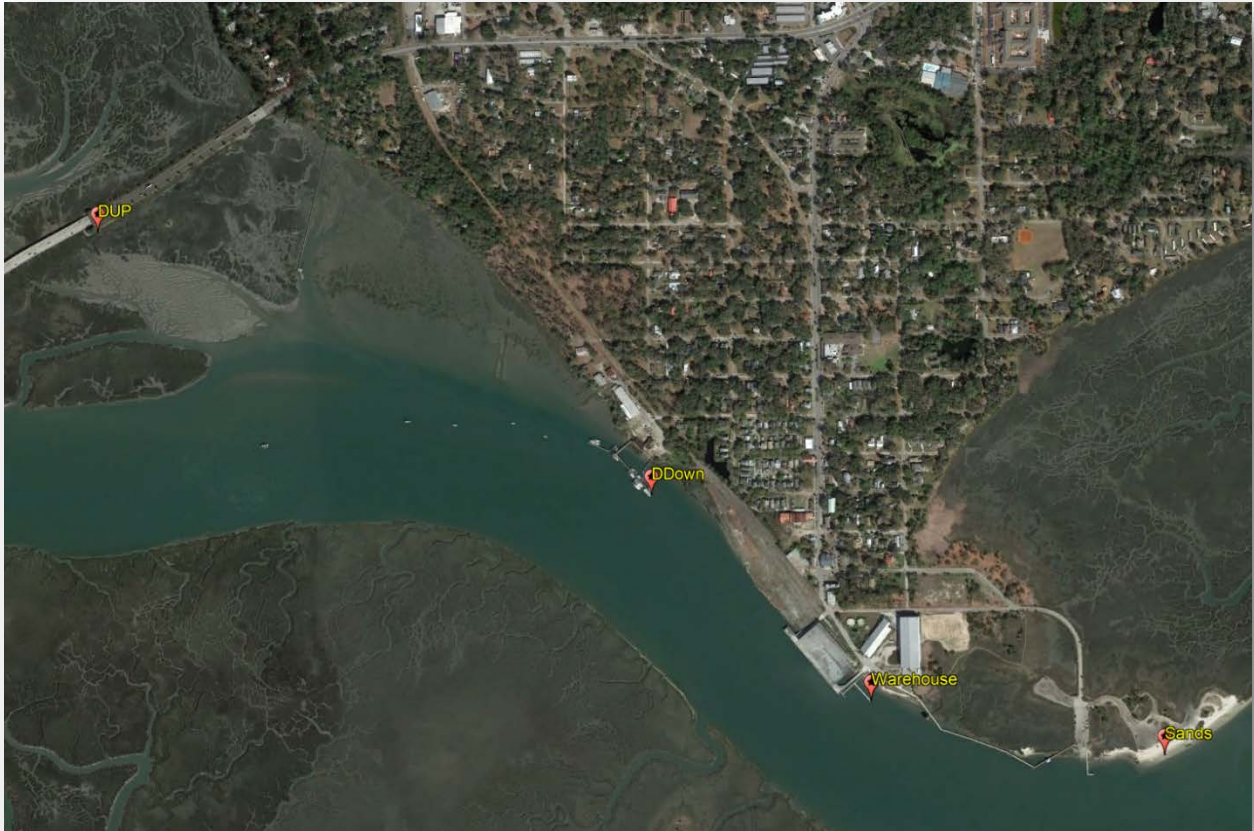
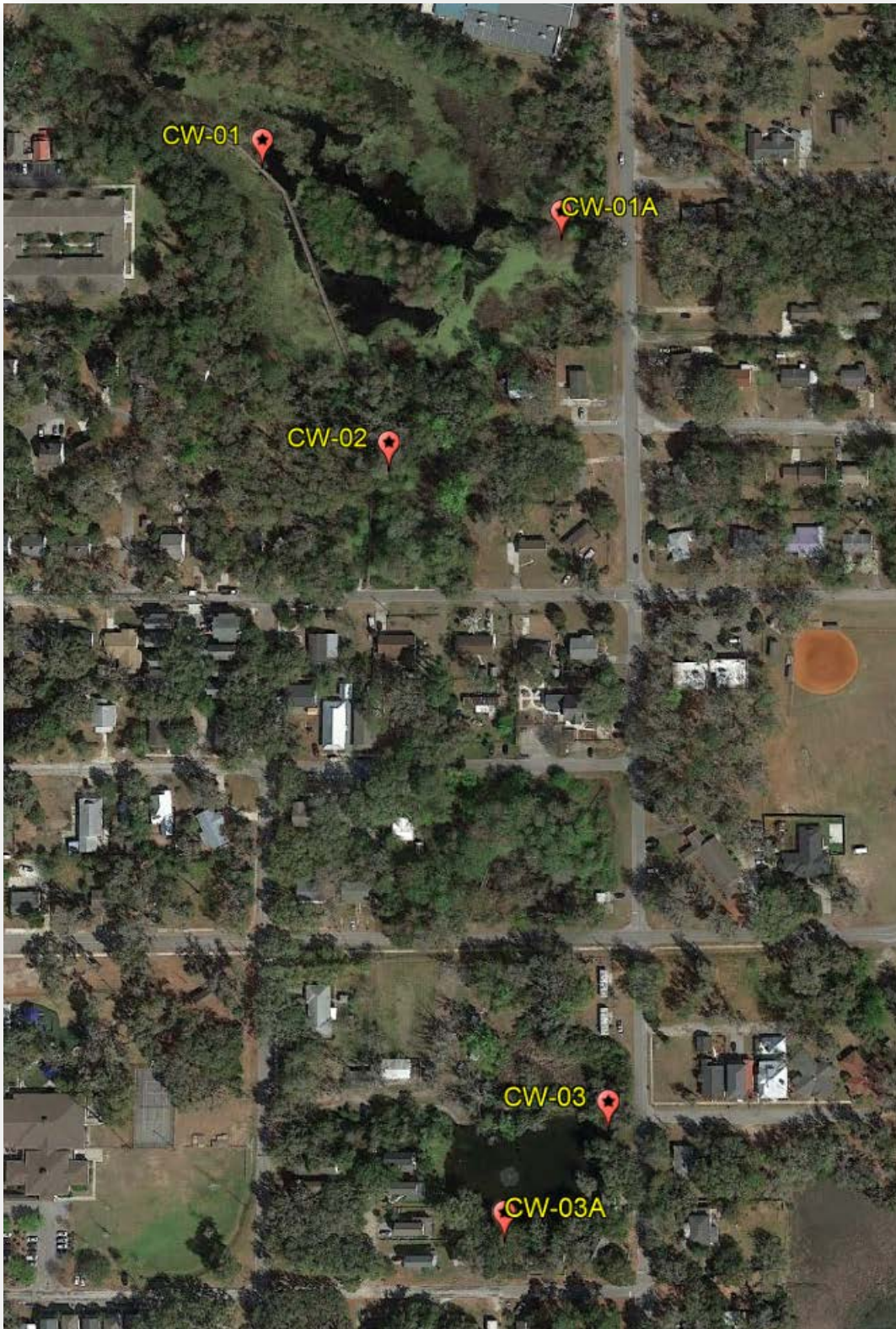


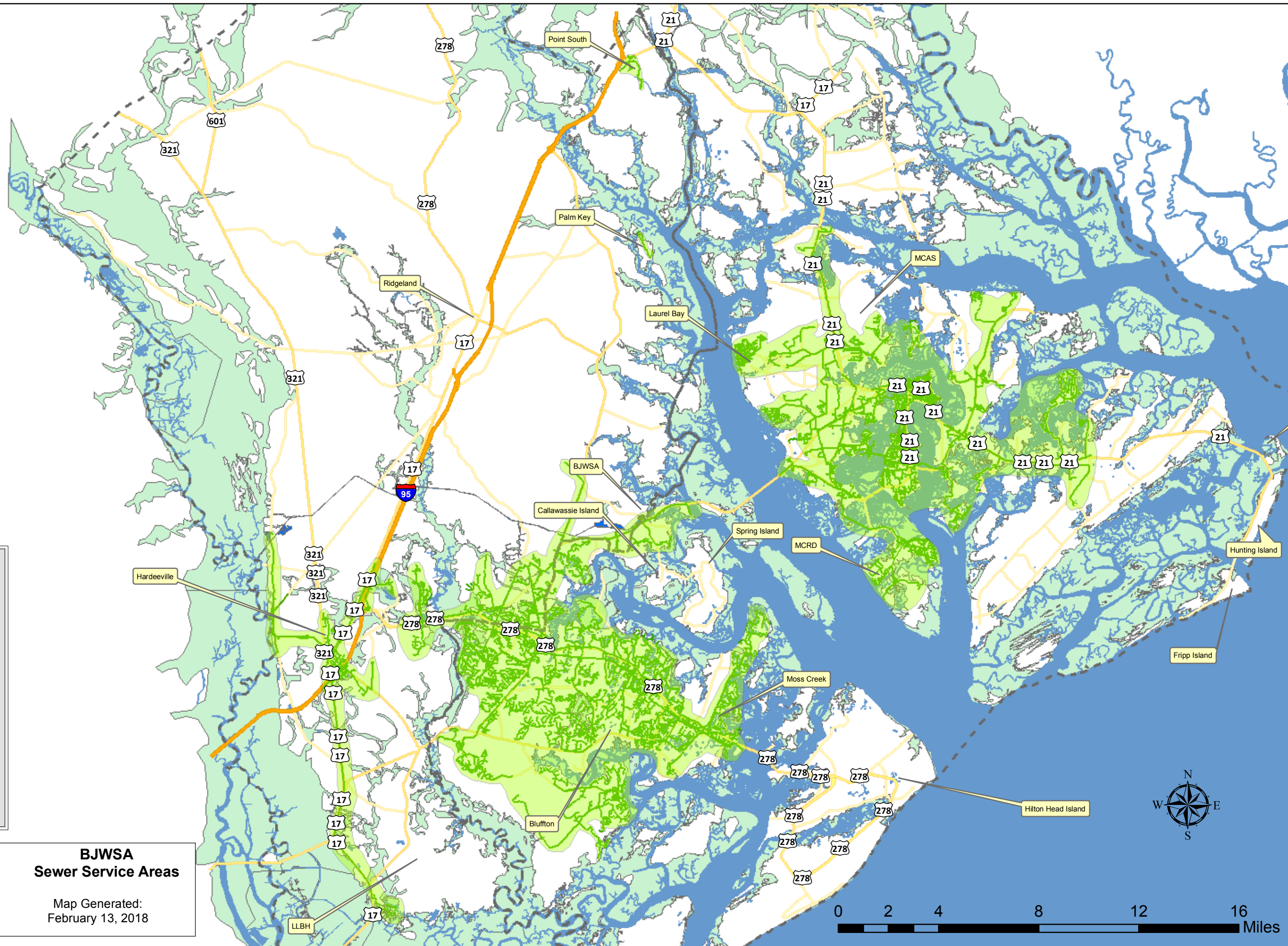
Figure 16. Cypress Wetland Monitoring Locations



8.1 Schedule

Special project monitoring schedules are set for each project and may differ from project to project.

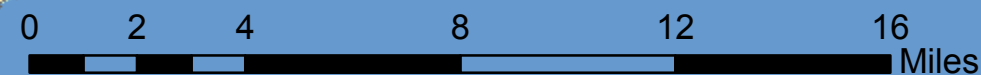
9 Appendices



Sewer Service
 Canal
 County Boundaries
Primary Roads
CLASS
 Interstate
 US_Hwy
 State_Hwy
 State
 Local_Arterial
 Water
 Wetlands

**BJWSA
Sewer Service Areas**

Map Generated:
February 13, 2018



STANDARD OPERATING PROCEDURE FOR THE COLLECTION OF AMBIENT WATER SAMPLES

The University of South Carolina
Water Quality Laboratory
1 University Boulevard
Bluffton, S.C. 29909

The intent of this document and its contents are solely for the applicable use in and by the University of South Carolina Water Quality Laboratory (USCB WQL) and its personnel. By authority from the South Carolina Department of Health and Environmental Control (SCDHEC) Environmental Laboratory Certification Program, the USCB WQL is granted a state certification (07568001). Public use of this document, whole or in part, is considered unrestricted. USCB Water Quality Laboratory WQSP Ambient Water Collection Revision 3 Revision Date 08-2016.

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1.0 SCOPE AND APPLICATION

1.1 This Standard Operating Procedure (SOP) is applicable to the collection of representative samples from marine estuary rivers and streams, and fresh water lakes, ponds and streams.

2.0 SUMMARY OF METHOD

2.1 This SOP describes the procedures for the collection of representative water samples from: a boat, along the shore, in beach surf, from a bridge using an extension pole, sterile bucket or a depth-integrated device. This method assumes that the sampling parameters are uniformly distributed in the water column.

3.0 INTERFERENCES

3.1 Interference may result from using contaminated equipment, solvents, reagents, sample container, or sampling in a disturbed area.

3.2 Cross contamination problems can be eliminated or minimized through the use of dedicated sampling equipment. Clean and decontaminate all sampling equipment prior to use. Follow the appropriate cleaning procedure for the parameters being sampled.

4.0 SAFETY

4.1 All proper personal protection clothing and equipment must be worn.

4.2 All sampling involving hazardous material or hazardous conditions (i.e. sampling material, sample preservatives) must be performed with at least two people.

4.3 When working with potentially hazardous materials or situations, follow EPA, OSHA, and site specific health or safety procedures. If a site has a known hazardous chemical present on site, review all chemical data including exposure guidelines and Material Data Safety Sheets (MSDS) before visiting the site.

4.4 When sampling lagoons or surface impoundments, the sampling team member(s) collecting the sample should not get too close to the edge of the impoundment, where bank failure may cause them to lose their balance.

4.5 Follow all boating safety rules designated for South Carolina when conducting sampling from a boat.

4.6 When preserving samples, all proper personal protection clothing and equipment is to be worn. At a minimal this will include closed-toed shoes, safety glasses and impervious gloves. Clean water and baking soda should be available for rinsing and neutralizing acids.

4.7 When working with potential hazardous chemicals or biological agents, avoid inhalation, skin contact, eye contact or ingestion. If skin contact occurs remove contaminated clothing immediately. Wash the affected areas thoroughly with large amounts of soap and water. If inhalation, eye contact or ingestion occurs, consult the Material Data Safety Sheets (MSDS) for prompt action, and in all cases seek medical attention immediately.

4.8 When sample handling is complete, wash your hands thoroughly.

5.0 EQUIPMENT AND SUPPLIES

5.1 Sampling collection equipment (Watermark Horizontal sampler, dip sampler, sampling pole, sampling bucket or bailer)

5.2 Hip waders, boots

5.3 Motor vehicle, water vessel, or other appropriate transportation.

5.4 Appropriate clean impervious gloves

5.5 Pre-cleaned and preserved sampling bottles (Refer to 40 CFR Part 136.3 (e) Table II, the laboratory's request form, the analytical method for the proper preservative, bottle type and size or the Sample Container, Preservation, Hold Time Table (WQL Table Form 005)-See attachment 2.

5.6 Whirl-Pak or Zip lock plastic bags

5.7 Coolers with ice

6.0 REAGENTS AND STANDARDS

6.1 Reference SOP WPGP Sample Containers, Preservation, Holding Times.

7.0 SAMPLE COLLECTION, PRESERVATION, AND STORAGE

7.1 Reference attachment 2- Sample Container, Preservation, Hold Time Table (WQL Table Form 005) and the SOP WPGP Sample Containers, Preservation, Holding Times.

7.2 All sampling sites shall document the location with latitude and longitude using Global Positioning System (GPS). Other methods of locating and documenting sampling sites may use topo maps, nautical charts, buoys and any specific landmarks that identify and mark sampling locations. If required, the proposed locations may be adjusted based on site access, property boundaries, and surface obstructions.

7.3 While in the performance of preparing and collecting any water quality samples, all personnel participating in these processes will adhere to all safety precautions and follow all established SOP pertaining to proper sample handling.

7.4 All sampling containers will prescribe to standard methods and established SOP for proper preservation of collected samples. Refer to 40 CFR Part 136.3 (e) Table II, Sample Container, Preservation, Hold Time Table (WQL Table Form 005)-See attachment 2 or the analytical method for the proper preservative and amount.

7.5 Safety glasses, appropriate impervious gloves and other necessary safety equipment shall be utilized. Sufficient amount of neutralizing agent and rinse water shall be readily available.

7.6 Once the sample has been preserved properly, cap the container. For microbiological samples, place the container in a Whirl-Pak or zip-lock plastic bag.

7.7 All samples collected in the field must be immediately placed under temperature control inside the transport container (Cooler) filled with an adequate amount of ice to maintain a temperature according to method and Sample Container, Preservation, Hold Time Table (WQL Table Form 005). A QC temperature blank will kept inside each cooler.

7.8 Load all the sample containers into cooler(s) ensuring that the bottles are in the ice in an upright position.

7.9 All collected water samples will be transported back to the laboratory in designated coolers and processed for analysis. Hold time(s) for specific sample analysis is found on the Sample Container, Preservation, Hold Time Table (WQL Table Form 005)

7.10 All samples collected in the field will maintain a Chain of Custody/Field Data Sheet that has all the proper information clearly recorded including the date, time, station number, sampling number and sample conditions for induction into the laboratory and sample record logbook. Follow SOP WQGP Chain of Custody.

8.0 PERFORMANCE CRITERIA AND QUALITY ASSURANCE

8.1 Performance Criteria

8.1.1 Follow SOP WQGP Chain of Custody.

8.1.2 At a minimum enter the following information on the Chain of Custody form: sampling date, sampling time, station number, sample numbers, project name, number of containers per station/sample number, type of analyses, type of sample (composite or grab), and samplers signatures.

8.1.3 Chain of custody forms should stay with the samples at all times. When samples are not in custody of the sampler or designated person (who signs the form) they should be maintained under lock and key.

8.1.4 For investigations or custody sensitive samples attach a custody seals to the cooler prior to shipment to another laboratory.

8.2 Quality Control/Quality Assurance

8.2.1 Representative samples are required. The sampler will evaluate the site-specific conditions to assure the sample will be representative.

8.2.2 All sampling equipment must be completely decontaminated prior to and after use.

8.2.3 Between each station sampling equipment (i.e. buckets, depth sampler and depth integrated sampler) shall be washed with a phosphate free soap and rinsed three times with distilled water. If sampling vertical profiles at the same station, sampling equipment will not be washed unless deemed necessary by the project data quality objectives.

9.0 CALIBRATION

9.1 Any thermometers used to measure temperature blanks are checked for accuracy yearly using a NIST traceable reference thermometer.

9.2 All NIST traceable reference thermometers must be recalibrated and re-certified every five years by an ISO 17025 accredited outside vendor (INNOCAL).

10.0 PROCEDURE

10.1 Pre-sample Collection

10.1.1 Determine the number of samples, site locations, the sampling methods to be employed, and which equipment and supplies are needed.

10.1.2 Decontaminate or pre-clean equipment, and ensure that it is in working condition.

10.1.3 Prepare a schedule and coordinate with the staff, clients, and laboratory.

10.1.4 Use GPS, topography maps, nautical charts, buoys and any specific landmarks to identify and mark all sampling locations. If required, the proposed locations may be adjusted based on site access, property boundaries, and surface obstructions.

10.2 Sample Collection

10.2.1 When collecting samples, the field location should be recorded using Global Positioning System (GPS). The date and time of sample collection, field measurements and ambient conditions must be recorded.

10.3 Sample Collection From a Boat

10.3.1 Approach the sampling point from a downstream or down-wind position and then motor slowly toward the sampling point. The motor should be turned off prior to reaching the sampling location and the boat allowed coasting a short distance to the sampling point to prevent disturbance of bottom sediment.

10.3.2 Allow the boat to come to a complete stop, drift into anchored position before beginning sampling. If necessary, lower the anchor slowly to prevent bottom sediments from being disturbed. Adjust the position of the boat back to the sampling location if drift or heavy tidal flow occurs.

10.3.3 Prepare the sample bottles. If not already done, label the sample bottles with at least, the site ID, with a permanent marker or waterproof sticker.

10.3.4 The member of the team who will be doing sampling will don new “powder free” polyethylene, PVC, or nitrile gloves.

10.3.5 Remove sample container cap. Plunge container quickly through water surface to avoid surface scum. If there is significant surface scum, record this in the field notes and use a swirling motion to clear it before plunging the bottle. The sampler will submerge the container 0.3 meters (approximately 12-18 inches) and allow the container to fill. Bacteriological samples must have air space in the top of the sample container.

10.3.6 Bring bottle up and immediately cap container.

10.3.7 An alternative to this method is to submerge capped container to 0.3 meters and then remove cap, allowing container to fill, and then recapping at the same depth.

10.4 Sample Collection from Shore

10.4.1 Prepare the sample bottles. If not already done, label the sample bottles with at least, the site ID using a permanent marker or waterproof sticker.

10.4.2 Identify the proper sampling location that will be sampled without entering the water.

10.4.3 Where there is flow or current always approach the sampling location slowly from downstream or down wind.

10.4.4 The member of the team who will be doing sampling will don new “powder free” polyethylene, PVC, or nitrile gloves.

10.4.5 Remove sample container cap. Reaching up stream or up-current plunge the container quickly through water surface to avoid surface scum. If there is significant surface scum, record this in the field notes and use a swirling motion to clear it before plunging the bottle. The sampler will submerge the container 0.3 meters (12 to 18 inches) and allow the container to fill. Avoid contacting the sample bottle with the bottom, stream bank, adjacent rocks and stream debris. If the water depth is less than 0.3 meters, sample the water at mid depth. Bacteriological samples must have a small amount of air space in the top of the sample container for mixing in the laboratory.

10.4.6 Bring bottle up and immediately cap container.

10.4.7 An alternative to this method is to submerge capped container to 0.3 meters and then remove cap, allowing container to fill, then recapping at the same depth.

10.5 Sample Collection into Beach Surf

10.5.1 Prepare the sample bottles. If not already done, label the sample bottles with at least, the site ID using a permanent marker or waterproof sticker.

10.5.2 Identify the proper sampling location that will be sampled without entering the water.

10.5.3 Wade into the surf to approximately 18 inches of water.

10.5.4 The member of the team who will be doing sampling will don new “powder free” polyethylene, PVC, or nitrile gloves.

10.5.5 Remove sample container cap. Reaching into on-coming wave by hand or with an extension pole and collect the sample in between the crest of the waves (within the trough of the wave) and plunge the container quickly through water surface. The sampler will submerge the container 0.3 meters (12-18 inches) and allow the container to fill. Avoid contacting the sample bottle with the bottom, stream bank, adjacent rocks and stream debris. If the water depth is less than 0.3 meters, sample the water at mid depth. Bacteriological samples must have a small amount of air space in the top of the sample container for mixing in the laboratory.

10.5.6 Bring bottle up and immediately cap container.

10.5.7 An alternative to this method is to submerge capped container to 0.3 meters and then remove cap, allowing container to fill, and then recapping at the same depth.

10.6 Sample Collection Using a Bucket

10.6.1 This method may only be used for bacteria analysis if the bucket has been adequately sterilized and maintained sterile. The analytic standard method will dictate the type of bucket that may be used and therefore the proper decontamination procedure will be applied. At a minimum this would be with a phosphate free soap and rinsed three times with distilled water. The bucket should then be placed in a sterile bag or covered with aluminum foil to protect it from contamination.

10.6.2 Prepare the sample bottles. If not already done, label the sample bottles with at least the site ID using a permanent marker or waterproof sticker.

10.6.3 Identify the proper sampling location that will be sampled without entering the water.

10.6.4 Where there is flow or current always sample on the upstream side of the bridge or structure.

10.6.5 The member of the team who will be doing sampling will don new “powder free” polyethylene, PVC, or nitrile gloves.

10.6.6 Locate the pre-cleaned bucket and rope.

10.6.7 Lower the bucket slowly to the water. To prevent particles or bridge material from entering the bucket, do not allow the rope or the bucket to touch the bridge structure.

10.6.8 Allow the bucket to fill at least 1/3 of the way full and raise the bucket slowly so that it does not contact anything on the way up. Coil the rope in your hand or on a cleaned surface (i.e. a clean plastic bag). This is performed to prevent particles from gathering on the rope and eventually dropping in the bucket.

10.6.9 Once the bucket has been raised, swirl the water in the bucket so it has contacted all inside surfaces. Empty the bucket so that it doesn't disturb the water to be sampled.

10.6.10 Lower the bucket slowly to the water. To prevent particles or bridge material from entering the bucket, do not allow the rope or the bucket to touch the bridge structure.

10.6.11 Allow the bucket to fill to provide enough volume to fill all sample containers then raise the bucket slowly so that it does not contact anything on the way up. Coil the rope in your hand or on a cleaned surface (i.e. a clean plastic bag). This is performed to prevent particles from gathering on the rope and eventually dropping in the bucket.

10.6.12 Once the bucket is raised, uncap all sampling containers.

10.6.13 Swirl the water in the bucket so it is well mixed.

10.6.14 Fill up all sampling containers.

10.6.15 Between each station wash the bucket with a phosphate free soap and rinse three times with distilled water. To prevent contamination, do not store the rope in the bucket.

10.7 Sample Collection at Depth (Use of horizontal bottle)

10.7.1 This method may not be used for bacteria analysis unless the depth-sampler has been adequately sterilized and maintained sterile. For bacteria a new sterile depth-sampler is required at each site. The depth-sampler should be cleaned properly for the particular analysis required. At a minimum this would be with a phosphate free soap and rinsed three times with distilled water.

10.7.2 Prepare the sample bottles. If not already done, label the sample bottles with at a minimum, the site ID using a permanent marker or waterproof sticker.

10.7.3 Identify the proper sampling location that may be sampled without entering the water.

10.7.4 Where there is flow or current always sample on the upstream side of the bridge, structure.

10.7.5 The member of the team who will be doing sampling will don new “powder free” polyethylene, PVC, or nitrile gloves.

10.7.6 Locate the pre-cleaned depth-sampler.

10.7.7 Lower the depth-sampler slowly to the desired depth.

10.7.8 Move the sampling rope several times side to side, to allow the water at depth to enter the sampler.

10.7.9 Drop the messenger to trigger the depth-sampler.

10.7.10 Raised the depth-sampler.

10.7.11 Remove the caps from all sample bottles

10.7.12 Shake or swirl the water in the depth-sampler

10.7.13 Fill up all sampling containers.

10.7.14 Between each station wash the depth-sampler with a phosphate free soap and rinse three times with distilled water.

10.8 Sample Collection Depth-integrated (Use of a Teflon bailer)

10.8.1 This method refers to collecting depth-integrated samples by use of a Teflon bailer. This method may not be used for bacteria analysis unless the bailer has been adequately sterilized and maintained sterile. For bacteria, a new sterile bailer is required at each site where pre-rinsing can be performed. The bailer should be cleaned properly for the particular analysis required. At a minimum this would be with a phosphate free soap and rinsed three times with distilled water.

10.8.2 Prepare the sample bottles. If not already done, label the sample bottles with at a minimum, the site ID using a permanent marker or waterproof sticker.

10.8.3 Identify the proper sampling location that may be sampled without entering the water.

10.8.4 Where there is flow or current always sample on the upstream side of the bridge, structure or boat.

10.8.5 The member of the team who will be doing sampling will don new “powder free” polyethylene, PVC, or nitrile gloves.

10.8.6 Locate the pre-cleaned Teflon bailer.

10.8.7 Lower the bailer slowly until the top of bailer is at the water’s surface.

10.8.8 Raise the bailer.

10.8.9 Empty the bailer so that it doesn’t disturb the water to be sampled (At least 5 feet away from the sample collection location).

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Revision Date 08-2016

10.8.10 Lower the bailer slowly until the top of bailer is at the water’s surface.

10.8.11 Raise the bailer.

10.8.12 Remove the caps from all sample bottles.

10.8.13 Mix the water in the bailer by putting you gloved finger of the top of the bailer and turning it upside down and then right-side up 3 times.

10.8.14 Fill up all sampling containers.

11.0 CALCULATIONS AND DATA REPORTING

11.1 No calculations are required for the collection of field data or water quality sampling in the field.

11.2 All field data will be recorded and reported utilizing the field data sheet and Chain-of-Custody logbook. Reference SOP WQGP Chain of Custody.

11.3 The chain of custody form is signed over to the laboratory.

11.4 The sampling data is stored at USCB Water Quality Laboratory located at 1 University Blvd, Bluffton, SC for at least 3 years.

11.5 Containers used for sampling must including the proper preservatives, maintain holding times, and shall be collected in the specific container types outlined in attachment 2.

11.6 Samples must be kept cool during shipment/transport to the laboratories with ice.

11.7 The USCB's Water Quality Laboratory personnel are responsible for providing containers, dispensing preservation materials, and providing proper handling instructions to sample collectors.

11.8 Maximum holding times have been set by the United States Environmental Protection Agency (USEPA) for each parameter. Be sure not to exceed the maximum holding time for valid results.

11.9 If sample exceeds the maximum holding time for a parameter, the analyst shall record in the workbook and report on the data sheet with the notation "sample analysis exceeded maximum holding time". A comment should also be recorded in the sample comments form for all sampling logbooks that are maintained in the laboratory.

11.10 If determined that any pre-dispensed preservation was lost or known equipment failure/problem issues have occurred, the comment "lab error", or "instrument failure/problem", or "analytical problem" shall be included in workbooks and logbooks.

11.11 The sampling data is stored in the USCB Water Quality Laboratory located at 1 University Blvd, Bluffton, SC for at least 3 years.

12.0 WASTE MANAGEMENT

12.1 During field sampling and analysis events there may be hazardous waste produced from the sample collection. The waste must be handled and disposed of in accordance with federal, state, and municipal regulations. Dispose of the site specific hazardous waste produced where the work was performed, if the operating site has proper disposal available. If there is no disposal that meets regulatory requirements, the waste must be

transported back to the USCB Water Quality Laboratory and transferred to the hazardous waste manager for proper disposal. The sample volume should be minimized to reduce unnecessary waste.

13.0 REFERENCES

13.1 40 CFR, Part 136. Guidelines Establishing Test Procedures for the Analysis of Pollutants. Federal Water Pollution Control Act Amendments, amended CWA of 1977.

13.2 South Carolina Department of Health and Environmental Control (2014). Laboratory Certification Program, Guidance Documents. Bureau of Environmental Services, Environmental Quality Control Laboratory.

13.3 USCB Water Quality Lab Quality Assurance Manual (QAM).

13.4 USEPA (2014). Manual for the Certification of Laboratories Analyzing Drinking Water, Fifth Edition. Publication, EPA 815-R-05-004, January 2005. Supplement 2, EPA 815-F-12-006, November 2012.

14.0 TABLES, DIAGRAMS, FLOWCHARTS Attachment 1

Chain of Custody/Field Data Sheet (WQL Form 1000)

Attachment 1: WQL Form 1000 – Field Data Logsheet

Client Contact: Company: _____ Project Name: _____ Address: _____ Phone: _____ Email: _____ Date Samples Collected: _____ Samples Collected By: _____				Temp Controls: Cooler # ___/___/___ C Cooler # ___/___/___ C Cooler # ___/___/___ C		USCB WATER QUALITY LABORATORY CHAIN OF CUSTODY AND FIELD DATA LOGSHEET ONE UNIVERSITY BLVD BLUFFTON, SC 29909 PH: 843-208-8193				<p>1) Sample Code: G=Grab, C=Composite, FD=Field Duplicate, S/FW=Stream Fresh, S/M=Stream Marine, P=Pond, SWD=Stormwater Drainage, O=Other (Describe in Comments).</p> <p>2) Preservation Type: HA-Hydrochloric Acid, PA-Phosphoric Acid, NI-Nitric Acid, SH-Sodium Hydroxide, SA-Sulfuric Acid, ST-Sodium Thiosulfate. If no preservative is added, leave blank.</p> <p>3) Flow: Low (L), Medium (M), High (H), In-coming tide (IC); No sample collected (NS)</p> <p>4) All temperatures are recorded in Celsius (C). Depth is recorded in meters (m) rounded to the nearest 0.5m</p> <p>5) "In-Situ" measurements must have a separate time entry from other collected samples.</p> <p>6) Depth profile data measurements must use 3 rows per site (i.e.; SFC, Middle, Bottom).</p>										<table border="1"> <tr> <th>Wx Code</th> <th>Tidal Stage</th> </tr> <tr> <td>00 (Clear)</td> <td>2000 (Ebb)</td> </tr> <tr> <td>01 (Fair)</td> <td>2100 (% Flood)</td> </tr> <tr> <td>02 (Cloudy)</td> <td>2200 (% Flood)</td> </tr> <tr> <td>22 (Rain)</td> <td>2300 (% Flood)</td> </tr> <tr> <td></td> <td>4000 (FLOOD)</td> </tr> <tr> <td></td> <td>4300 (% Ebb)</td> </tr> <tr> <td></td> <td>4200 (% Ebb)</td> </tr> <tr> <td></td> <td>4100 (% Ebb)</td> </tr> </table>		Wx Code	Tidal Stage	00 (Clear)	2000 (Ebb)	01 (Fair)	2100 (% Flood)	02 (Cloudy)	2200 (% Flood)	22 (Rain)	2300 (% Flood)		4000 (FLOOD)		4300 (% Ebb)		4200 (% Ebb)		4100 (% Ebb)								
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Sample Analysis Requested (fill in the preservation type and # of containers below, i.e. "S1/02")																																															
Station/Sample ID *Start/Stop Time required for composite				Time Collected* (Military)	Sample Code (Type and Waterbody)	Flow	Enterococcus	E. Coli	Fecal Coliform	Nutrients	TOC	BOD	TSS	Chlorophylla	Mercury	Metals	Sediments	Other	<table border="1"> <tr> <th>Time</th> <th>Depth</th> </tr> <tr> <td>IN</td> <td>SFC (0.5m)</td> </tr> <tr> <td></td> <td>Middle</td> </tr> <tr> <td>OUT</td> <td>Bottom</td> </tr> </table>		Time	Depth	IN	SFC (0.5m)		Middle	OUT	Bottom	<table border="1"> <tr> <th>Air Temp</th> <th>Wtr Temp</th> <th>SpC</th> <th>DO</th> <th>pH</th> <th>Salinity</th> <th>Turb</th> <th>Weather</th> <th>Tide Stage</th> </tr> </table>										Air Temp	Wtr Temp	SpC	DO	pH	Salinity	Turb	Weather	Tide Stage
Time	Depth																																														
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Received into Lab by: _____				Date: _____				Time: _____				Received by: _____				Date: _____				Time: _____																											

WQL Form 1000 Rev. 07/2016

Attachment 2: WQL Table Form 005 - Sample Container Preservation Hold Time Table

Parameter(s)	Container ¹	Preservation	Minimum Sample Size	Maximum Holding Time
Bacterial				
Fecal Coliform	PA, G	Cool, < 8°C, 0.0008% Na ₂ S ₂ O ₃	100 mL	8 hours (Surface Waters)
Total Coliform and <i>E. Coli</i>	PA, G	Cool, < 8°C, 0.0008% Na ₂ S ₂ O ₃	100 mL	8 hours
Enterococci	PA, G	Cool, < 8°C, 0.0008% Na ₂ S ₂ O ₃	100 mL	8 hours
Nutrients Wet Chemistry				
Ammonia	P, G, FP	Cool, ≤ 6°C, H ₂ SO ₄ < pH 2	500 mL	28 days
Nitrate-Nitrite	P, G, FP	Cool, ≤ 6°C, H ₂ SO ₄ < pH 2	200 mL	28 days
Total Kjeldahl Nitrogen	P, G, FP	Cool, ≤ 6°C, H ₂ SO ₄ < pH 2	500 mL	28 days
Phosphorus, total	P, G, FP	Cool, ≤ 6°C, H ₂ SO ₄ < pH 2	100 mL	28 days
Organic Carbon	P, G(B), FP	Cool, ≤ 6°C, H ₃ PO ₄ < pH 2	100 mL	28 days
Biochemical Oxygen Demand	P, G, FP	Cool, ≤ 6°C	1000 mL	48 hours
Residue, Nonfilterable (TSS)	P, G, FP	Cool, ≤ 6°C	200 mL	7 days
Chlorophyll-a	P, G dark colored.	Unfiltered, dark, 4°C. Filtered, dark - 20°C	1000 mL	36 hours for filtration/ 28 days for filter extraction.
Metals				
Metals, Total (Cd, Cr, Cu, Fe, Pb, Mn, Ni, Zn)	P	Cool, ≤ 6°C, H ₂ SO ₄ < pH 2	250 mL	6 months
Mercury	P	Cool, ≤ 6°C, H ₂ SO ₄ < pH 2	250 mL	6 months
In Field				
SpC, DO, pH, Salinity, Temperature, Turbidity	Use probe	None Required	in-situ	Analyze immediately
WQL Table Form 005				
1. P=Polyethylene. G=Glass. FP=Fluoropolymer (polytetrafluoroethylene (PTFE), Teflon). PA=Any plastic made of sterilizable material. G(B)=Borosilicate glass.				

A	B	C	D	E	F	G	H	I	J	K	L	M
1	Monitoring type(s)	Water body or description	Point name	Type	Sample Point Owner	DHEC monitoring station	Use	POC	Parameters Analyzed*	Schedule	Notes	GPS
2	TMDL											
3	Category 1, 4	Chechessee (developed)	BCCC1	OF	County		shellfish	FC	E. Coli, Nitrate, Nitrite Ammonia, P	quarterly wet		32.3558456, -80.8641047
4	Category 1, 4	Chechessee (undeveloped)	BCCC2	OF	County		shellfish	FC	E. Coli	quarterly wet		32.3627148, -80.8509683
5	Category 1, 4	Okatie (developed)	BCOK1	IS	County		shellfish	FC	E. Coli	quarterly wet		32.280910, -80.927427
6	Category 1, 4	Okatie (undeveloped)	BCOK2	OF	County		shellfish	FC	E. Coli	quarterly wet		32.334256, -80.922064
7	Category 1, 4	Okatie (developed)	BCOK3	OF	County		shellfish	FC	E. Coli	quarterly wet		32.347974, -80.891552
8	Category 1, 4	Okatie (developed)	OKW3A	IS	County		shellfish	FC	E. Coli	quarterly wet, quarterly dry	In Bluffton MOA	32.278760 -80.945870
9	303d streams											
10	Category 1, 4	May River	MRR02	OF	Bluffton				FC, E coli, copper, total N, total P	quarterly wet, quarterly dry	In Bluffton MOA, quarterly one dry one wet; parameters updated per Beth Lewis and Katie Herrera 12-3-1	32.240785, -80.885964
11	Category 3, 4	New River	NEW1	IS	County	RT-06021		Enter, Hg	Enter, HG	quarterly wet, quarterly dry	303d stream; quarterly one dry one wet per Bluffton MOA	32.236088, -81.013417
12	Category 3	Pocotaligo River at US 17 at Pocotaligo	BCD-PR	OF	County	MD-007	REC (Stream)	Enter	Enter	quarterly wet		32.639401, -80.857303
13	Category 3	Pocotaligo River at US 17 at Pocotaligo	BCD-PR	OF	County	MD-007	AL	turbidity				
14	Category 2	Huspah Creek at Bull Point - Whale Branch POG	No point assigned			14-18	shellfish	FC				Have sewer service area map from BJWSA
15	Category 2	Huspah Creek at railroad trestle	No point assigned			14-14	Shellfish	FC				
16	Category 2	Campbell Creek at Whale Branch	No point assigned			14-02	Shellfish	FC				
17		eastside of ss rr swing bridge on whale branch	No point assigned			14-22	shellfish	FC				
18	Category 2	First split on Halfmoon Creek on Southern side of Brown's Island	No point assigned			14-13A	Shellfish	FC				
19	Category 3	Habersham Creek above station #16, first split	BCD-HC	IS	County	17-16A	Shellfish	FC	FC	quarterly wet	Same as Broad2 from monitoring plan in BMP manual	32.48118, -80.755535
20	Category 3	Habersham creek approx 835 m from shellfish	near BCD-HC	IS	County	RT-16125	REC	Enter	FC	quarterly wet	Same as Broad2 from monitoring plan in BMP manual	
21	Category 3	Broad River at Corn Island - mouth of creek	Near BCD-HC	IS	County	17-16	shellfish	FC	FC	quarterly wet	Same as Broad2 from monitoring plan in BMP manual	
22	Category 3	Colleton River at mouth of Callawassie Cr, 4.5M N of bluffton	BCD-CR	IS	County	RO-01125	AL (Stream)	DO	Nitrate, Nitrite Ammonia FC P	quarterly wet	Could monitor instream at Callawassie Drive	32.3135635, -80.8591359
23	Category 3	Chechessee River, 6.5M W of Port Royal	BCD-LM	IS	County	RO-01146	AL (Stream)	DO			Lemon Island boat ramp	32.373752, -80.836215
24	N/A	Bend in May R nearest High Bluff of Palmetto Bluff	No point assigned			19-19B	Shellfish	FC			Share info with Bluffton	
25	N/A	first unnamed trib leading from Gascoigne Bluff	No point assigned			19-19C	Shellfish	FC			Share info with Bluffton	
26	N/A	May River at first dock in headwaters past Bluff	No point assigned			19-19	Shellfish	FC			Share info with Bluffton	
27	N/A	Unnamed trib near SW corner of Gascoigne Bluff	No point assigned			19-19A	Shellfish	FC			Share info with Bluffton	
28	Category 2	coffin creek approx 330 M E of the end of N Front Dr	No point assigned		County	RT-16131	REC	Enter				
29	Category 2	Edding Creek at Morgan River	No point assigned		County	16A-09	shellfish	FC				
30	Category 2	Coffin Creek mouth at Morgan River	No point assigned		County	16A-27	shellfish	FC				
31	Category 2	Coffin Creek headwaters at shrimp docks	No point assigned		County	16A-28	shellfish	FC				
32	Category 2	Edding Cr at small Trib between stations 9 and 18	No point assigned		County	16A-23	shellfish	FC				Have sewer service area map from BJWSA
33	Category 2	Edding Cr at shrimp dock	No point assigned		County	16A-18	shellfish	FC				
34	Category 2	Jenkins Cr, 500ft N of stormwater at Dawtaw Island golf course	No point assigned		County	16A-30	shellfish	FC				
35	Category 2	Pine Island Creek near confluence Village Creek	No point assigned		County	16A-38	shellfish	FC				
36	Category 2	Cowen creek 0.7 miles sw of US hwy 21 bridge over cowen creek	No point assigned		County	RT-15106	REC	Enter				
37	N/A	WIMBEE CREEK APPROX 1 MI NW OF THE MOUTH OF SOUTH WIMBEE CREEK AND SHELLFISH SITE 14-17	No point assigned			RO-14351	AL	DO			low priority	
38	N/A	Johnson Cr approx 1.4 mi SSW of US 21 bridge	No point assigned			RO-14354	AL	DO			low priority	
39	N/A	coffin creek 0.7 mi se of confl w/morgan river	No point assigned			RT-032022	AL	turbidity			low priority	
40	N/A	Coosaw River, midchannel between Bull River and Combahee River, 1 M east of shellfish site 14-04	No point assigned			RO-11314	AL	turbidity			low priority	
41	N/A	Coosaw River near mouth of Combahee River	No point assigned			RO-02001	AL	Turbidity			low priority	

A	B	C	D	E	F	G	H	I	J	K	L	M
1	Monitoring type(s)	Water body or description	Point name	Type	Sample Point Owner	DHEC monitoring station	Use	POC	Parameters Analyzed*	Schedule	Notes	GPS
42	N/A	COOSAW RVR NEAR MOUTH OF BULL RVR	No point assigned			RO-02005	AL	CU, TURBIDITY			low priority	
43	N/A	Saint Helena Sound, 7M SW of Edisto Beach	No point assigned			RO-01163	AL	turbidity			low priority	
44	N/A	St Helena sound below confluence of Morgan River & Coosaw River between the tips of S battery creek 1000ft below rabbit island	No point assigned			RO-09371	AL	turbidity			low priority	
45	Category 3, 4, 5	battery creek - picket fence trib (C6-97)	No point assigned			15-19	shellfish	FC			BCBR5, BCBR7, DUP, Ddown, Warehouse, Sands	
46	Category 3, 4, 5	battery creek - cherry hill trib (C6-97)	No point assigned			15-26	shellfish	FC			BCBR5, BCBR7, DUP, Ddown, Warehouse, Sands	
47	Category 3, 4, 5	battery creek - storm water outfall under rr track (C6-97)	No point assigned			15-27	shellfish	FC			BCBR5, BCBR7, DUP, Ddown, Warehouse, Sands	
48	Category 3, 4, 5	battery creek - trib on r side before battery shores (C6-97)	No point assigned			15-28	shellfish	FC			BCBR5, BCBR7, DUP, Ddown, Warehouse, Sands	
49	Category 3, 4, 5	battery creek cottage farms community dock (C6-97)	No point assigned			15-29	shellfish	FC			BCBR5, BCBR7, DUP, Ddown, Warehouse, Sands	
50	Category 3, 4, 5	mouth of albergotie and brickyard creek	No point assigned			15-30	shellfish	FC			BCBR5, BCBR7, DUP, Ddown, Warehouse, Sands	
51	Category 3, 4, 5	Albergottie Creek 1.0 miles upstream of station 15-03	No point assigned			15-03	shellfish	FC			BCBR5, BCBR7, DUP, Ddown, Warehouse, Sands	
52	N/A	Albergottie Creek 700 ft SE of MCAS hunting club fishing pier	No point assigned			15-03A	shellfish	FC			Not monitoring	
53	N/A	Capers CR SSG at penn community srvc retreat center	No point assigned			15-03B	shellfish	FC			Not monitoring	
54	N/A	McCalley Creek - 0.5 miles upstream of 15-01a (C7-01)	No point assigned			15-20	shellfish	FC			Not monitoring	
55	N/A	middle creek and whale branch, confluence	No point assigned			15-33	shellfish	FC			Not monitoring	
56	N/A	Sawmill cr approx 3/4 mi from shellfish site 18-06 - confluence with colleton river	No point assigned			17-21	shellfish	fc			Not monitoring	
57	N/A					RT-13061	AL	DO			Not monitoring	
58	Category 3, 5	Rock Springs Creek, Upper reaches	BCD-RS	OF	County	16A-19	shellfish	FC	FC	quarterly wet	Special project monitoring; in and out pond monitoring	32.442109, -80.628637 (outfall). No true inlet, other than rainfall; Pond not near completion, if true inlet, will take location
59	Category 3	COMBAHEE RVR AT US 17 10 MI ESE YEMASSEE	BCD-YM	IS	County	CSTL-098	AL (Stream)	DO	Nitrate, nitrite, ammonia FC P	quarterly wet	At bridge; on county line with Colleton	32.652932, -80.683649
60	Category 3, 4	Beaufort River	BCBR1	OF	County			DO	Nitrate, nitrite, ammonia FC P	quarterly wet	Mink Point	32.4095898, -80.7242011
61	Category 3, 4	Beaufort River	BCBR2	OF	County	15-25	Shellfish	DO, FC	Nitrate, nitrite, ammonia FC P	quarterly wet	Port Royal MOA, Same as DHEC 15-25, Savannah highway/Parris island junction	32.3831697, -80.734907
62	Category 3, 4	Beaufort River	BCBR3	IS	County	15-06, MD-001	Shellfish, Stream	DO	Nitrate, nitrite, ammonia, FC, P	quarterly wet	Port Royal MOA, Sands Beach	32.370383, -80.658153
63	Category 3, 4	Beaufort River	BCBR4	IS	County			DO	Nitrate, nitrite, ammonia FC P	quarterly wet	City of Beaufort MOA, Port Royal Landing. Entero sampling done quarterly (1&4), bimonthly (2&3)	32.394572, -80.677906
64	Category 3, 4	Beaufort River	BCBR6	OF	County	15-05	Shellfish	DO	Nitrate, nitrite, ammonia FC P	quarterly wet	City of Beaufort MOA, Dwntwn Beaufort, Bay street parking lot	32.431819, -80.674322
65	Category 3, 4	Beaufort River	BCBR5	IS	County	15-05	Shellfish	DO	Nitrate, nitrite, ammonia FC P	quarterly wet	City of Beaufort MOA, Dwntwn Beaufort daily boat parking	32.429729, -80.670973
66	Category 3	Battery Creek	BCBR7	OF	County	15-06	Shellfish	DO	Nitrate, nitrite, ammonia FC P	quarterly wet	County admin building	32.440031, -80.687597
67	Category 3, 4, 5	Battery Creek	DUP	IS	PR	15-06	Shellfish	E.Coli	E.Coli, Entero	quarterly wet	Bell Bridge. Entero sampling quarterly (1&4), bimonthly (2&3)	32.380000, -80.7086111
68	Category 3, 4, 5	Battery Creek	Ddown	IS	PR			E.Coli	E.Coli	quarterly wet	End of dock at 11th Street docks	32.375277, -80.696111
69	Category 3, 4, 5	Battery Creek	Warehouse	IS	PR			E.Coli	E.Coli	quarterly wet	Butler marine warehouse docks	32.371388, -80.691388
70	Category 3, 4, 5	Battery Creek	Sands	IS	PR			entero	e.Coli, entero, Nitrate, Nitrite, ammonia, P	quarterly wet	Beach. Entero sampling quarterly (1&4), bimonthly (2&3)	32.370383, -80.658153
71	Special Project											
72	Category 5	Walmart Pond	WMP-IN	OF	County				FC	per plan	Inlet at rain garden area, parking lot; Walmart owns pond	32.257065, -80.855629
73	Category 5	Walmart Pond	WMP-OUT	OF	County				FC	per plan	Outfall Structure	32.26012500, -80.85723963
74	Category 5	Walmart Pond	WMP-WET	OF	County				FC	per plan	Wetland input before road	32.258872026, -80.86701481
75	Category 5	Walmart Pond	WMP-278	OF	County				FC	per plan	Outfall from Wetland and Pond, converging near road	32.26186678, -80.85459706
76	Category 5	Barrel Landing Pond	BL#4IN	OF	County				FC	per plan	Inlet	32.29447173, -80.93433199
77	Category 5	Barrel Landing Pond	BL#4OUT	OF	County				FC	per plan	Outfall	32.294560, -80.933913
78	Category 5	Barrel Landing Pond	BL#3IN	OF	County				FC	per plan	Inlet	32.290441, -80.931489
79	Category 5	Barrel Landing Pond	BL#3OUT	OF	County				FC	per plan	Outfall	32.290229, -80.930990
80	Category 4, 5	Cypress Wetland	CW-01	OF	PR				E.coli, N, P	per plan	Done once a year; first year falls under stormwater utility. Special Project	32.382336, -80.690843
81	Category 4, 5	Cypress Wetland	CW-01A	OF	PR				E.coli, N, P	per plan	Done once a year; first year falls under stormwater utility. Special Project	32.382013, -80.689307
82	Category 4, 5	Cypress Wetland	CW-02	OF	PR				E.coli, N, P	per plan	Done once a year; first year falls under stormwater utility. Special Project	32.381014, -80.690150
83	Category 4, 5	Cypress Wetland	CW-03	OF	PR				E.coli, N, P	per plan	Done once a year; first year falls under stormwater utility. Special Project	32.378182, -80.689059
84	Category 4, 5	Cypress Wetland	CS-03A	OF	PR				E.coli, N, P	per plan	Done once a year; first year falls under stormwater utility. Special Project	32.377754, -80.689542
85	Category 5	Okatie West Pond	OKWP1	IS	County				FC	per plan	Instream, before entering pond	32.279640, -80.940851
86	Category 5	Okatie West Pond	OKWPBOX	OF	County				FC	per plan	Right of outfall box, above Bold and Gold media	32.278723, -80.9401380
87	Category 5	Okatie West Pond	OKWPBG	IS	County				FC	per plan	Bold and Gold media Clean out pipe	32.278726, -80.9401440
88	Category 5	Okatie West Pond	OKWPOUT	OF	County				FC	per plan	Outfall of pond, OKWP4 on old RFP	32.279741, -80.9405856
89	Category 5	Okatie West Pond	OKWP2	IS	County				FC	per plan	Midway between outfall and marshline, prior to a separate discharge input	32.2821, -80.9358

A	B	C	D	E	F	G	H	I	J	K	L	M
1	Monitoring type(s)	Water body or description	Point name	Type	Sample Point Owner	DHEC monitoring station	Use	POC	Parameters Analyzed*	Schedule	Notes	GPS
90	Category 5	Okatie West Pond	OKWP3	IS	County				FC	per plan	Down stream, close to edge of marsh	32.2827, -80.9338
91	Category 5	Salt Creek Pond	SCPIN	OF	Andrews				FC,Ecoli	per plan	Input to pond; Andrews collects samples, County funds USCB analysis	TBD
92	Category 5	Salt Creek Pond	SCPOUT	OF	Andrews				FC,Ecoli	per plan	Outfall of pond; Andrews collects samples, County funds USCB analysis	TBD
93	Category 5	Shanklin Pond	SHPOX1	OF	Andrews				FC,Ecoli	per plan	Shanklin oxidation pond in; Andrews collects samples, County funds USCB analysis	TBD
94	Category 5	Shanklin Pond	SHPOX2	OF	Andrews				FC,Ecoli	per plan	Shanklin oxidation pond out; Andrews collects samples, County funds USCB analysis	TBD
95	Category 5	Shanklin Pond	SHPIN	OF	Andrews				FC,Ecoli	per plan	New shanklin pond Input; Andrews collects samples, County funds USCB analysis	TBD
96	Category 5	Shanklin Pond	SHPOUT	OF	Andrews				FC,Ecoli	per plan	New shanklin pond outfall; Andrews collects samples, County funds USCB analysis	TBD
97	Category 5	Sawmill Creek Pond	SMPIN	OF	Ward Edwards				FC,Ecoli	per plan	Input pipes beneath Blufhton PKWY, Ward Edwards collects samples, County funds USCB analysis	TBD
98	Category 5	Sawmill Creek Pond	SMPOUT	OF	Ward Edwards				FC,Ecoli	per plan	Outfall pipe underneath frontage road; Ward Edwards collects samples, County funds USCB analysis	TBD
99	Category 5	Brewer Memorial Park	BMPRGIN	OF	Ward Edwards				FC,Ecoli	per plan	Rain garden input; Ward Edwards collects samples, County funds USCB analysis	TBD
100	Category 5	Brewer Memorial Park	BMPRGOUT	OF	Ward Edwards				FC,Ecoli	per plan	Rain garden outfall; Ward Edwards collects samples, County funds USCB analysis	TBD
101	Category 5	Brewer Memorial Park	BMPIDIN	OF	Ward Edwards				FC,Ecoli	per plan	Infiltration ditch input; Ward Edwards collects samples, County funds USCB analysis	TBD
102	Category 5	Brewer Memorial Park	BMPIDOUT	OF	Ward Edwards				FC,Ecoli	per plan	Infiltration ditch outfall; Ward Edwards collects samples, County funds USCB analysis	TBD
103	Category 5	Brewer Memorial Park	BMPPCIN	OF	Ward Edwards				FC,Ecoli	per plan	Pervious Concrete input; Ward Edwards collects samples, County funds USCB analysis	TBD
104	Category 5	Brewer Memorial Park	BMPPCOUT	OF	Ward Edwards				FC,Ecoli	per plan	Pervious Concrete outfall; Ward Edwards collects samples, County funds USCB analysis	TBD
105	Category 5	Brewer Memorial Park	BMPTBIN	OF	Ward Edwards				FC,Ecoli	per plan	Tree box input; Ward Edwards collects samples, County funds USCB analysis	TBD
106	Category 5	Brewer Memorial Park	BMPTBOUT	OF	Ward Edwards				FC,Ecoli	per plan	Tree box outfall; Ward Edwards collects samples, County funds USCB analysis	TBD
107	Category 5	Brewer Memorial Park	BMPHSIN	OF	Ward Edwards				FC,Ecoli	per plan	Hydrodynamic seperator input; Ward Edwards collects samples, County funds USCB analysis	TBD
108	Category 5	Brewer Memorial Park	BMPHSOUT	OF	Ward Edwards				FC,Ecoli	per plan	Hydrodynamic seperator outfall; Ward Edwards collects samples, County funds USCB analysis	TBD
109												
110	Category 1: TMDL monitoring											
111	Category 2: IDDE screening and monitoring			*Note: in situ parameters also to be collected								
112	Category 3: Water quality monitoring (baseline, based upon 303d list)											
113	Category 4: MOA points											
114	Category 5: Special project monitoring											

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

THIS AGREEMENT is made and entered into this 16th day of November, 2016 by and between the City of Beaufort, South Carolina, (hereinafter referred to as the "City"), and Beaufort County, South Carolina (hereinafter referred to as the "County").

WHEREAS, the City and County recognize that it may be mutually beneficial to share in the cost of meeting certain goals for water quality in our community; and

WHEREAS, the City's Stormwater utility shall be used for administrative costs for the City of Beaufort Stormwater management program and for any applicable State or Federal mandated Stormwater requirements; and

WHEREAS, the Stormwater Management and Utility Agreement between Beaufort County, South Carolina, and the City of Beaufort, South Carolina, dated August 14, 2012, establishes that the City and County may enter into agreements to share the costs and responsibilities related to Stormwater activities, including monitoring and water sampling / testing; and

WHEREAS, the City or County may contract for the private services and materials related to Stormwater activities and request the other party to assist in the payment for the contracted services and materials at an agreed upon rate; and

WHEREAS, the County shall enter into a contract, attached as Exhibit A, with University of South Carolina Beaufort (hereinafter referred to as "USCB lab") to procure services at a cost not to exceed One Hundred Twenty Thousand dollars and zero cents (\$120,000.00) for annual Stormwater monitoring, sampling, and lab testing for watershed areas in northern Beaufort County and shared by Beaufort County, the Town of Port Royal, and the City of Beaufort for fiscal year 2017; and

WHEREAS, the County has requested that the City share in payment for USCB lab services and the City agrees to share in the cost for the services in an amount based upon the proportion of Stormwater Utility accounts that lie within the City Limits for fiscal year 2017; and

WHEREAS, this agreement shall be in effect from the date of execution for remainder of the current fiscal year and may be renewed annually for a period of up to five (5) years. The parties may negotiate the funding amounts for each successive year prior to renewal.

NOW, THEREFORE, the City agrees to compensate the County in an amount not to exceed Ten Thousand, Two Hundred, and Twelve dollars and zero cents (**\$10,212.00**) in fiscal year 2017 to pay for its proportional share of funding the consulting activities of USCB lab throughout northern Beaufort County. Funds will be received by the County via the Stormwater Management Fee per account collected by the County on behalf of the City and will not be billed separately.

IN WITNESS WHEREOF, the City of Beaufort, South Carolina and Beaufort County, South Carolina, by and through their duly authorized officers have set their hands and seals on this 16th day of November 2016.

WITNESSES:

[Signature]
[Signature]

BEAUFORT COUNTY

By: [Signature]

Its: Administrator

WITNESSES:

[Signature]
[Signature]

CITY OF BEAUFORT

By: [Signature]

Its: City Manager

June 15 2017

STATE OF SOUTH CAROLINA)
)
COUNTY OF BEAUFORT)

MEMORANDUM OF AGREEMENT

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.

June 15 2017

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.]

June 15 2017

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

BEAUFORT COUNTY, SOUTH CAROLINA TOWN OF BLUFFTON

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

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

STATE OF SOUTH CAROLINA)

COUNTY OF BEAUFORT)

MEMORANDUM OF AGREEMENT
TOWN OF PORT ROYAL

THIS AGREEMENT is made and entered into this 10th day of July, 2015 by and between the Town of Port Royal, South Carolina, (hereinafter referred to as the "Town"), and Beaufort County, South Carolina (hereinafter referred to as the "County").

WHEREAS, the Town and County recognize that it may be mutually beneficial to share in the cost of meeting certain goals for water quality in our community; and

WHEREAS, the Stormwater Management and Utility Agreement between Beaufort County, South Carolina, and the Town of Port Royal, South Carolina, dated June 26, 2012, establishes that the Town and County may enter into agreements to share the costs and responsibilities related to stormwater activities, including monitoring and water sampling / testing; and

WHEREAS, the Town or County may contract for the private services and materials related to stormwater activities and request the other party to assist in the payment for the contracted services and materials at an agreed upon rate; and

WHEREAS, the County shall enter into a contract, attached as Exhibit A, with University of South Carolina Beaufort (hereinafter referred to as "USCB lab") to procure services at a cost not to exceed Ninety-Three Thousand dollars (\$93,000.00) for annual stormwater monitoring, sampling, and lab testing for watershed areas in northern Beaufort County and shared by Beaufort County, the Town of Port Royal, and the City of Beaufort for fiscal year 2016; and

WHEREAS, the County has requested that the City share in payment for USCB lab services and the Town agrees to share in the cost for the services in an amount based upon the proportion of County Single Family Units (SFUs) that lie within the Town Limits (8.16%) for fiscal year 2016; and

WHEREAS, this agreement shall be in effect from the date of execution for remainder of the current fiscal year and may be renewed annually for a period of up to five (5) years. The parties may negotiate the funding amounts for each successive year prior to renewal.

NOW, THEREFORE, the Town agrees to compensate the County in an amount not to exceed Seven Thousand, Five Hundred, Ninety dollars and zero cents (\$7,590.00) in fiscal year 2016 to pay for its proportional share of funding the consulting activities of USCB lab throughout northern Beaufort County.

IN WITNESS WHEREOF, ~~the City of Beaufort~~, Town of Port Royal, South Carolina and Beaufort County, South Carolina, by and through their duly authorized officers have set their hands and seals on this 10th day of July 2015.

WITNESSES:

Larry Harris

BEAUFORT COUNTY

By: [Signature]
Its: Administrator

WITNESSES:

Tanya L. Payne
Cynthia K. Small

TOWN OF PORT ROYAL

By: [Signature]
Its: Town Manager

ReqID	Form Name	Status	Date Submitted	Last Updated	Address	Municipality	Dept	Assigned To	Description	User
629	Dirt Road Needs Grading	Closed	2/14/2018 12:07	2/21/2018 13:29	70 Quiet Cove Way	Beaufort County	120	Jerry Stanley	Numerous holes and ridges along the roadway. Grading and additional dirt needed on the road. The road has numerous ruts which are becoming increasingly severe due to the rain.	1059
790	Dirt Road Needs Grading	Closed	7/20/2018 9:32	7/31/2018 15:01	50 Quiet Cove Way	Beaufort County	120	Jerry Stanley	Thank you	1307
791	Dirt Road Needs Grading	Closed	7/21/2018 17:50	8/2/2018 8:32	196 Benjies Point Rd	Beaufort County	120	Jerry Stanley	Road washed out.	1392
827	Dirt Road Needs Grading	Closed	8/1/2018 8:20	8/9/2018 11:27	50 Quiet Cove Way	Beaufort County	120	Jerry Stanley	The gravel added to the mud holes helped some, but more is needed.	1307
968	Dirt Road Needs Grading	Closed	11/6/2018 10:10	11/28/2018 15:10	11 Landing Hill Rd	Beaufort County	120	Jerry Stanley	Pothole on Landing Hill Road bear orange grove rd.	1055
697	Dirt Road Needs Grading	Closed	5/7/2018 13:15	5/15/2018 7:59	43 Patsy White Dr	Beaufort County	120	Jerry Stanley	Pot holes and washboard needs attention	1360
733	Dirt Road Needs Grading	Closed	6/4/2018 11:51	6/12/2018 10:34	40 Quiet Cove Way	Beaufort County	120	Jerry Stanley	Recent rains have taken a toll on the condition of this dirt road. Deep ridges and grooves are all along the roadway.	1059
801	Dirt Road Needs Grading	Closed	7/23/2018 14:57	7/31/2018 14:58	70 Quiet Cove Way	Beaufort County	120	Jerry Stanley	Quiet Cove Way needs to be graded. The road is in terrible shape after all the rain we received last week.	1059
702	Dirt Road Needs Grading	Closed	5/15/2018 6:46	6/25/2018 9:08	15 Dolphin Watch Pt	Beaufort County	120	Jerry Stanley	First dirt road on the right after crossing the bridge onto Coosaw Island.	1147
803	Dirt Road Needs Grading	Closed	7/23/2018 17:20	8/2/2018 8:33	69 School Rd	Beaufort County	120	Jerry Stanley	Road washed out for a month	1392
705	Dirt Road Needs Grading	Closed	5/16/2018 15:17	5/18/2018 8:23	85 Gannet Point Rd	Beaufort County	120	Jerry Stanley	This is at the end of Dolly lane turning onto Gannet point. This is not a private road. It's dangerous, especially when it rains and one can't see	1171
856	Dirt Road Needs Grading	Closed	8/9/2018 9:52	8/9/2018 11:09	37 Adams Cir	Beaufort County	120	Jerry Stanley	Please have someone evaluate all of Adams Circle for grading/repair.	1362
648	Dirt Road Needs Grading	Closed	3/1/2018 14:14	3/8/2018 9:09	19 Mccoy Rd	Beaufort County	120	Jerry Stanley	All roads at Lands End have just been scraped/graded except Mosse Rd. Why was this road left untouched	1340
863	Dirt Road Needs Grading	Closed	8/11/2018 17:17	8/23/2018 10:13	477 Paige Point Blf	Beaufort County	120	Jerry Stanley	Getting bad washouts and rough	1360
603	Dirt Road Needs Grading	Closed	12/26/2017 17:41	1/8/2018 10:49	50 Quiet Cove Way	Beaufort County	120	Jerry Stanley	The entire unpaved stretch is in very bad condition.	1307
865	Dirt Road Needs Grading	Closed	8/13/2018 14:09	11/28/2018 15:07	21 Godwin Dr	Beaufort County	120	Jerry Stanley	Near 21B driveway road is washed out	1055
817	Dirt Road Needs Grading	Closed	7/29/2018 13:46	7/30/2018 10:53	1500 Laudonniere St	City of Beaufort	120	Cynthia Martin	Von Harten street and Laudonniere street washed out, poor water drainage.	1375
873	Dirt Road Needs Grading	Closed	8/21/2018 15:33	10/22/2018 15:32	89 Prospect Rd	Beaufort County	120	Jerry Stanley	Road washed out.	1392
624	Drainage Ditch Clogged	Closed	2/13/2018 14:42	4/9/2018 8:58	1432 Sea Island Pkwy	Beaufort County	110	Eric Larson	Dirt from private dirt road washes into state ditch. How can I retrieve the dirt back?	1055
837	Drainage Ditch Clogged	Closed	8/3/2018 11:00	11/30/2018 6:28	31 Old Dawson Acres	Beaufort County	110	Matt Rausch	Ditch clogged causing water not to flow properly.	1327
822	Drainage Ditch Clogged	Closed	7/30/2018 8:30	8/8/2018 7:19	22 Taylor St	Beaufort County	110	Matt Rausch	Ditch clogged with debris causing the water not to flow. This is causing flooding in the yard.	1327
656	Drainage Ditch Clogged	Closed	3/9/2018 14:02	4/9/2018 7:56	2010 Walnut St	Beaufort County	110	Matt Rausch	Ditches with open land across the street need cleaned.	1055
838	Drainage Ditch Clogged	Closed	8/3/2018 11:12	8/28/2018 17:19	13 Braden Rd	Beaufort County	110	Matt Rausch	The water flowing through is causing erosion to his back yard.	1327
823	Drainage Ditch Clogged	Closed	7/30/2018 10:24	8/3/2018 14:22	14 Polite Dr	Beaufort County	110	Matt Rausch	Ditch clogged with debris and overgrown with vegetation causing water not to flow.	1327
659	Drainage Ditch Clogged	Closed	3/14/2018 11:44	4/9/2018 7:47	161 Trotters Loop	Beaufort County	110	Matt Rausch	Is Trotters Loop getting paved? What is the nature of the road work currently being done on Trotters Loop?	1347
689	Drainage Ditch Clogged	Closed	4/25/2018 10:33	8/29/2018 15:14	77 Laurel St E	Beaufort County	110	Matt Rausch	There is standing water. Water not flowing properly. Ditch clogged with debris and overgrown	1327
824	Drainage Ditch Clogged	Closed	7/30/2018 16:02	8/2/2018 12:23	49 Hewlett Rd	Beaufort County	110	Matt Rausch	Ditch clogged with debris causing water not to flow.	1327
660	Drainage Ditch Clogged	Closed	3/19/2018 12:15	4/11/2018 9:15	23 Laughing Gull Dr	Beaufort County	110	Matt Rausch	Homeowner states the ditches are overgrown causing the water not to flow properly.	1327
720	Drainage Ditch Clogged	Closed	5/24/2018 13:16	6/15/2018 7:08	4333 Pinewood Cir	Beaufort County	110	Matt Rausch	The three ditches around my home are overgrown.	1327
622	Drainage Ditch Clogged	Closed	2/13/2018 14:01	4/9/2018 9:02	112 Vineyard Point Rd	Beaufort County	110	Matt Rausch	Drainage and litter issues along vineyard	1055
692	Drainage Ditch Clogged	Closed	4/26/2018 10:40	8/2/2018 13:02	67 Le Moyné Dr	Beaufort County	110	Matt Rausch	The ditches are overgrown causing the water not to flow. This issue is causing flooding of homeowner's yard.	1327
623	Drainage Ditch Clogged	Closed	2/13/2018 14:07	4/9/2018 8:59	28 Lands End Rd	Beaufort County	110	Matt Rausch	Ditch on right facing church not draining	1055
967	Drainage Ditch Clogged	Closed	11/5/2018 12:10	11/30/2018 6:47	11 Huspah Ct S	Beaufort County	110	Matt Rausch	Ditches along Huspah Dr and Huspah Ct N/S are overgrown	1055
725	Drainage Ditch Clogged	Closed	5/29/2018 16:52	6/1/2018 13:24	50 Marshland Rd	Town of Hilton Head	110	Eric Larson	This ditch it still has not been touched. This ditch should be 3 feet lower and cleaned out. This was is a direct threat to my home and has been	1370
694	Drainage Ditch Clogged	Closed	4/30/2018 9:35	5/18/2018 6:35	18 Godwin Rd	Beaufort County	110	Matt Rausch	Homeowner states ditch is overgrown and clogged with debris	1327
773	Drainage Ditch Clogged	Closed	7/17/2018 11:17	9/11/2018 9:20	121 Community Center Rd	Beaufort County	110	Matt Rausch	Homeowner states the ditch is clogged with debris causing flooding when it rains.	1327
633	Drainage Ditch Clogged	Closed	2/15/2018 11:33	4/9/2018 8:53	8 Parrot Creek Dr	Beaufort County	110	Matt Rausch	Parrot Creek Dr Ditches along even numbered house side aren't draining.	1055
726	Drainage Ditch Clogged	Closed	5/30/2018 12:48	6/26/2018 7:29	12 Cedar Crest Cir	Beaufort County	110	Matt Rausch	Culverts are becoming overgrown and clogged with debris.	1055
793	Drainage Ditch Clogged	Closed	7/23/2018 9:54	10/1/2018 8:10	29 Prescott Rd	Beaufort County	110	Matt Rausch	Homeowner states ditches are overgrown and valley drains need to be cleaned.	1327
844	Drainage Ditch Clogged	Closed	8/6/2018 9:05	10/4/2018 15:52	13 Palmetto Beach Ln	Beaufort County	110	Matt Rausch	Ditch across the street from this resident is not draining. Complaints of mosquito breeding.	1050
830	Drainage Ditch Clogged	Closed	8/2/2018 11:13	8/31/2018 7:13	4019 Dogwood St	Beaufort County	110	Eric Larson	Ditch is overgrown which is interfering with drainage. The county cleared the drainage problem last year, its so overgrown you can't see the d	1109
635	Drainage Ditch Clogged	Closed	2/15/2018 14:01	4/9/2018 8:24	20 Eternity Ln	Beaufort County	110	Matt Rausch	Property owners along Eternity Ln are having drainage issues.	1055
794	Drainage Ditch Clogged	Closed	7/23/2018 10:13	8/31/2018 8:52	12 Ben White Dr	Town of Hilton Head	110	Matt Rausch	Drainage ditch grass needs to be cut. On the side of 8 Ben White Drive/ front of 12 Ben White Drive HHI 29926	1402
776	Drainage Ditch Clogged	Closed	7/18/2018 8:23	7/30/2018 14:46	19 Katelyns Way	Beaufort County	110	Matt Rausch	Homeowner states the ditch is clogged with debris causing flooding when it rains.	1327
845	Drainage Ditch Clogged	Closed	8/6/2018 12:14	8/29/2018 15:06	27 Community Center Rd	Beaufort County	110	Matt Rausch	The ditch in front of the residence is clogged with debris causing the water not to flow.	1327
885	Drainage Ditch Clogged	Closed	8/27/2018 15:48	8/31/2018 14:45	4019 Dogwood St	Beaufort County	110	Eric Larson	My last request was closed without resolution. The ditch is in terrible shape. One comment prior to the closing said it needed to be bushhog	1109
795	Drainage Ditch Clogged	Closed	7/23/2018 10:52	8/2/2018 12:40	24 Stroup Rd	Beaufort County	110	Matt Rausch	Homeowner states ditches in the rear of residence off of Browns Island Road is overgrown and water not flowing properly causing the back ya	1327
973	Drainage Ditch Clogged	Closed	11/9/2018 14:12	12/1/2018 18:20	2212 Salem Dr W	Beaufort County	110	Matt Rausch	Ditched clogged and overgrown end of salem drive west before sandy ridge road, right side. Attempted to clean myself. A little much for one c	1454
638	Drainage Ditch Clogged	Closed	2/16/2018 11:27	2/16/2018 11:50	6 Copeland Dr	Beaufort County	110	Danny Polk	Copeland funeral home worried about excess water on there property , from the development next door.	1076
729	Drainage Ditch Clogged	Closed	5/31/2018 16:09	6/1/2018 17:41	50 Marshland Rd	Town of Hilton Head	110	Eric Larson	This has not been closed. Yall have it closed on here but it has not been taken care of. This is my 4 th request to have this issue fixed. It is not cl	1370
847	Drainage Ditch Clogged	Closed	8/7/2018 11:13	8/29/2018 15:11	100 Wintergreen Dr	Beaufort County	110	Matt Rausch	The ditch in front of the residence is clogged with debris causing the water not to flow.	1327
730	Drainage Ditch Clogged	Closed	5/31/2018 16:39	6/1/2018 16:21	50 Marshland Rd	Town of Hilton Head	110	Eric Larson	This is the ditch where the drains are and no it has not been dropped 3ft and the whole ditch is full of debris	1370
699	Drainage Ditch Clogged	Closed	5/9/2018 7:37	5/10/2018 15:04	13 Pelican Cir	Beaufort County	110	Matt Rausch	Address for point of reference. Corner of Grackle Ln and Pelican circle is blocked and not draining	1055
976	Drainage Ditch Clogged	Closed	11/13/2018 11:21	11/30/2018 6:50	113 Dolphin Point Dr	Beaufort County	110	Matt Rausch	Clogged drainage along 3 lots	1415
928	Drainage Ditch Clogged	Closed	10/1/2018 10:29	11/30/2018 6:58	10 Brickyard Hills Dr	Beaufort County	110	Matt Rausch	Ditch clogged with debris causing stagnate water.	1327
734	Drainage Ditch Clogged	Closed	6/5/2018 8:50	8/2/2018 13:04	792 Sea Island Pkwy	Beaufort County	110	Matt Rausch	Ditch beside the property (on the left going out Sea Island Pkwy past post office)	1055
979	Drainage Ditch Clogged	Closed	11/15/2018 12:28	11/30/2018 7:38	34 Drayson Cir	Town of Bluffton	110	Matt Rausch	Stormwater has a work order in place to clean the ditch running north to south east of Drayson Circle and west of Lake Linden Subdivision.	1050
804	Drainage Ditch Clogged	Closed	7/24/2018 8:41	8/3/2018 14:40	64 Reeds Rd	Beaufort County	110	Matt Rausch	Homeowner states the ditches are clogged not allowing water to flow properly.	1327
855	Drainage Ditch Clogged	Closed	8/9/2018 9:13	8/31/2018 8:42	115 Dolphin Point Dr	Beaufort County	110	Matt Rausch	Ditch is flooded, overgrown And clogged	1415
980	Drainage Ditch Clogged	Closed	11/15/2018 12:58	11/30/2018 7:35	86 Black Watch Dr	Beaufort County	110	Matt Rausch	County stormwater has a work order in place to redirect an offsite ditch into the newly constructed storm sewer system of bluffton Parkway	1050
736	Drainage Ditch Clogged	Closed	6/8/2018 15:25	11/30/2018 6:58	29 Sugaree Dr	Beaufort County	110	Matt Rausch	Ditches are filled and need to be cleaned. Water backing up on property.	1055
805	Drainage Ditch Clogged	Closed	7/24/2018 9:13	10/4/2018 15:56	46 Honeysuckle Ln	Beaufort County	110	Matt Rausch	Homeowner states the ditches are clogged not allowing the water to flow causing water to flood the yard.	1327
891	Drainage Ditch Clogged	Closed	8/29/2018 10:42	11/30/2018 6:30	21 Young Cir	Beaufort County	110	Eric Larson	Ditch needs cleaned and there is a leaning pecan tree in the right of way	1055
981	Drainage Ditch Clogged	Closed	11/15/2018 13:02	11/15/2018 21:19	75 Pine Burr Dr W	Beaufort County	110	Eric Larson	Citizen Complaint on ditches	1050
982	Drainage Ditch Clogged	Closed	11/15/2018 13:49	11/15/2018 13:56	73 Porches Hill Rd	Beaufort County	110	Matt Rausch	Standing water and debris in drainage	1055
894	Drainage Ditch Clogged	Closed	8/30/2018 9:58	10/12/2018 7:59	44 Tanglewood Dr	Beaufort County	110	Matt Rausch	Ditch is overgrown causing water not to flow.	1327
983	Drainage Ditch Clogged	Closed	11/15/2018 15:05	11/30/2018 7:22	99 Sutherland Way	Beaufort County	110	Matt Rausch	Ditch is overgrown on ditches.	1050
860	Drainage Ditch Clogged	Closed	8/10/2018 10:23	8/10/2018 12:01	27 Johnny Morrall Cir	City of Beaufort	110	Matt Rausch	Entire road is overgrown on both sides	1135
934	Drainage Ditch Clogged	Closed	10/10/2018 11:46	11/30/2018 7:34	39 Gannet Point Rd	Beaufort County	110	Matt Rausch	Ditches have not been maintained in a long time. Water does not drain and dog Creek floods neighboring properties	1171
984	Drainage Ditch Clogged	Closed	11/16/2018 12:57	11/30/2018 7:27	9 Jasper Ln	Beaufort County	110	Matt Rausch	Ditch clogged	1050
650	Drainage Ditch Clogged	Closed	3/7/2018 15:03	4/11/2018 9:17	28 Hunt Ter	Beaufort County	110	Matt Rausch	Homeowner states the water is stagnant and has been for a month now.	1327
740	Drainage Ditch Clogged	Closed	6/12/2018 13:33	8/2/2018 13:05	2 Lilac Ln	Beaufort County	110	Matt Rausch	Homeowner states the ditch in front of the residence tends to flow. It may be clogged with debris. Also reports the grid across the street can	1327
862	Drainage Ditch Clogged	Closed	8/10/2018 13:43	8/28/2018 17:21	4 Token Ln	Beaufort County	110	Matt Rausch	Ditches along Token Ln are overgrown.	1055

899	Drainage Ditch Clogged	Closed	8/30/2018 13:10	9/28/2018 7:10	164 Lake Linden Dr	Town of Bluffton	110	Matt Rausch	See emails with POA Manager. Complaint outfall from subdivision is not draining.	1050
808	Drainage Ditch Clogged	Closed	7/24/2018 15:49	8/2/2018 12:32	4031 Shell Point Rd	Beaufort County	110	Matt Rausch	Ditch is completely blocked and over grown. Water flows their front and side of yard to 4029.	1180
742	Drainage Ditch Clogged	Closed	6/14/2018 9:18	9/28/2018 7:39	4357 Pinewood Cir	Beaufort County	110	Matt Rausch	With ditch maintenance over the years, the root bases are exposed and have strong potential to falling. Large pine fell and damaged fence in	1305
994	Drainage Ditch Clogged	Open	11/26/2018 10:27	12/3/2018 16:35	83 Harbor River Cir	Beaufort County	110	Matt Rausch	Ditch in front of home is clogged with debris causing stagnant water.	1327
653	Drainage Ditch Clogged	Closed	3/8/2018 12:56	4/9/2018 8:10	76 First Coleman Rd	Beaufort County	110	Matt Rausch	Ditches are backed up and flowing onto property	1055
809	Drainage Ditch Clogged	Closed	7/25/2018 12:38	7/26/2018 10:09	114 Stanley Rd	Beaufort County	110	Matt Rausch	Homeowner states water stagnant because of debris coming from top of Stanley Road which has clogged the ditch.	1327
751	Drainage Ditch Clogged	Closed	6/25/2018 10:49	11/30/2018 6:28	31 Chesterfield Lake Dr	Beaufort County	110	Matt Rausch	The area between 31 and 40 Chesterfield Lake Drive is overgrown and clogged with debris.	1327
810	Drainage Ditch Clogged	Closed	7/26/2018 7:16	8/2/2018 12:30	4 Needlerush Ct	Beaufort County	110	Matt Rausch	2 drains near driveway are blocked and flooding is causing the drive erode	1055
745	Drainage Ditch Clogged	Closed	6/19/2018 11:20	6/28/2018 7:31	19 Myrtle St	Beaufort County	110	Matt Rausch	The ditch across the street is clogged and causes the road to flood.	1327
904	Drainage Ditch Clogged	Closed	9/4/2018 8:18	9/6/2018 15:01	9 Harborview Cir	Beaufort County	110	Matt Rausch	Drains blocked with debris on Harborview Drive and water backs up causing flooding.	1055
996	Drainage Ditch Clogged	Closed	11/27/2018 10:03	11/30/2018 6:55	757 Sea Island Pkwy	Beaufort County	110	Matt Rausch	Ditch in front yard is overgrown and clogged, causing flooding when it rains.	1480
811	Drainage Ditch Clogged	Closed	7/26/2018 10:08	8/2/2018 12:27	8 Fairfax St	Beaufort County	110	Matt Rausch	Ditch over grown and clogged	1398
750	Drainage Ditch Clogged	Closed	6/21/2018 11:01	6/21/2018 11:54	1 Keans Neck Rd	Beaufort County	110	Cynthia Martin	Over grown by stop sign not safe to turn out on highway	1326
606	Drainage Ditch Clogged	Closed	1/17/2018 12:17	1/24/2018 14:11	5 Rice Rd	Beaufort County	110	Matt Rausch	Roadside ditches needs cleaning.	1055
812	Drainage Ditch Clogged	Closed	7/26/2018 10:10	8/2/2018 12:25	203 Alljoy Rd	Beaufort County	110	Matt Rausch	Ditch over grown and clogged	1398
866	Drainage Ditch Clogged	Closed	8/13/2018 14:48	8/29/2018 14:51	27 Mary Jenkins Cir	Beaufort County	110	Matt Rausch	The ditch in front of the residence is clogged with debris causing the water not to flow.	1327
909	Drainage Ditch Clogged	Closed	9/5/2018 11:30	9/28/2018 7:40	34 Southern Magnolia Dr	Beaufort County	110	Matt Rausch	Ditch is overgrown.	1327
813	Drainage Ditch Clogged	Closed	7/26/2018 16:37	11/30/2018 6:28	115 Dolphin Point Dr	Beaufort County	110	Matt Rausch	Ditch clogged with debris causing the water not to flow.	1327
910	Drainage Ditch Clogged	Closed	9/6/2018 7:25	10/4/2018 15:54	29 Pelican Cir	Beaufort County	110	Matt Rausch	Ditch is overgrown.	1327
780	Drainage Ditch Clogged	Closed	7/19/2018 9:24	11/30/2018 6:50	26 Braeburn Ln	Beaufort County	110	Matt Rausch	Ditch needs cleaned out, it is holding water and needs mowed between Braeburn Ln and Hewlett Rd.	1055
871	Drainage Ditch Clogged	Closed	8/20/2018 7:36	8/20/2018 9:06	127 Stanley Rd	Beaufort County	110	Matt Rausch	Overgrown ditches causing yard and road to flood	1421
872	Drainage Ditch Clogged	Closed	8/21/2018 8:28	8/28/2018 17:20	42 Mary Jenkins Cir	Beaufort County	110	Matt Rausch	Ditch in front of residence is clogged up	1055
954	Drainage Ditch Clogged	Received	10/22/2018 15:38	11/1/2018 8:38	12 Ben White Dr	Town of Hilton Head	120	Matt Rausch	It was scheduled for a Bush hog but they only cut the grass on the side of the road	1402
914	Drainage Ditch Clogged	Closed	9/10/2018 8:54	9/24/2018 7:48	79 Cherokee Farms Rd	Beaufort County	110	Matt Rausch	Obstruction in drainage, blockage on property side at 78 Cherokee Farms rd where water would outlet to Broad River	1055
955	Drainage Ditch Clogged	Closed	10/22/2018 16:27	11/30/2018 6:46	4358 Pinewood Cir	Beaufort County	110	Matt Rausch	Ditch been like this for decades	1456
877	Fallen Tree on Road	Closed	8/23/2018 21:50	8/24/2018 7:51	3025 Okatie Hwy	Town of Bluffton	120	Cynthia Martin	Trees down in median of 170	1423
971	Fallen Tree on Road	Closed	11/8/2018 13:48	11/14/2018 14:59	2 Buchanan Rd	Beaufort County	120	Jerry Stanley	Leaning tree on Buchanan Rd near Lands End Rd	1055
696	Fallen Tree on Road	Open	5/4/2018 13:21	12/2/2018 14:07	31 Old Dawson Acres	Beaufort County	120	Matt Rausch	Tree fallen into drainage ditch	1055
926	Fallen Tree on Road	Closed	9/28/2018 7:41	10/1/2018 8:46	15 Rux Point Boat Lindg	Beaufort County	120	Jerry Stanley	Fallen tree blocking one of the launches.	1055
887	Fallen Tree on Road	Closed	8/28/2018 9:09	9/17/2018 11:48	76 School Rd	Beaufort County	120	Jerry Stanley	Tree on the road for 5 days. Fell at 3:30 Friday, itâ€™s Tuesday now.	1392
888	Fallen Tree on Road	Closed	8/28/2018 9:39	8/28/2018 14:03	47 Goethe Rd -Unit 1	Town of Bluffton	120	Jerry Stanley	Itâ€™s actually on the bike path on the parkway. Tree blocking pathway Across bike path only	1423
937	Fallen Tree on Road	Closed	10/13/2018 10:38	10/17/2018 15:17	7 Hampton Lake Dr	Town of Bluffton	120	Jerry Stanley	Transfer to county public works	1050
900	Fallen Tree on Road	Closed	8/31/2018 9:18	8/31/2018 13:20	69 School Rd	Beaufort County	120	Jerry Stanley	Tree still in roadway.	1392
605	Fallen Tree on Road	Closed	1/17/2018 12:12	1/31/2018 14:21	5 Rice Rd	Beaufort County	120	Jerry Stanley	Leaning tree, overhanging road. (Address is not accurate just point of reference for Rice Rd.)	1055
905	Fallen Tree on Road	Closed	9/4/2018 9:16	9/4/2018 9:23	69 School Rd	Beaufort County	120	Jerry Stanley	Tree only Partially removed. Still overhanging into the roadway.	1392
754	Fallen Tree on Road	Closed	6/29/2018 12:29	6/29/2018 15:30	55 Rue Du Bois	Beaufort County	120	Jerry Stanley	There's a fallen tree limb blocking part of Rue Du Bois. There was almost an accident when two cars were coming down the road. Tried to move	1048
618	Illicit Discharge	Closed	2/9/2018 8:57	2/9/2018 8:57	20 Anna Estate Ln	Beaufort County	110	Dan Brower	Onsite Wastewater complaint	1085
796	Illicit Discharge	Closed	7/23/2018 11:02	7/23/2018 20:35	143 Bay Point Rd	Beaufort County	110	Dan Brower	There is brown murky discharge flowing between 143 and 145 Bay Point Road.	1327
640	Illicit Discharge	Closed	2/19/2018 8:58	2/22/2018 14:54	62 Pine Island Rd	Beaufort County	110	Dan Brower	Styrofoam balls going into May River from a new house being build along Pine Island Road. No silt fence	1055
851	Illicit Discharge	Closed	8/8/2018 8:01	8/20/2018 10:45	751 Sams Point Rd	Beaufort County	110	Danny Polk	New ditch on property, draining back yard	1076
706	Illicit Discharge	Closed	5/17/2018 7:33	5/17/2018 14:54	3160 Okatie Hwy	Beaufort County	110	Dan Brower	Citizen noticed dead wild life along former Bull Hill Road. Believes a chemical or sewage release may be cause. Stated standing water due to	1050
594	Illicit Discharge	Closed	12/6/2017 16:56	12/8/2017 7:37	2 Bajala Dr E	Beaufort County	110	Dan Brower	There are two green pipes that drain into the tidal pool behind the house. Also there is a swimming pool. Can not say that they drain the pool,	1301
595	Illicit Discharge	Closed	12/8/2017 7:52	12/8/2017 7:57	125 Confederate Ave	Beaufort County	110	Dan Brower	Pipe and large hole dug on the backside of a storage shed/carport. Discolored water and smell of sewage.	1085
602	Illicit Discharge	Closed	12/22/2017 10:52	12/22/2017 10:56	975 Old Sheldon Church Rd	Beaufort County	110	Danny Polk	Owner of property requested a inspection of property, to determine if illegal dumping was going on. Marsh area under powerline.	1076
758	Illicit Discharge	Closed	7/9/2018 14:33	7/10/2018 11:14	1108 Coleman Ln	City of Beaufort	120	Meghan Graham	Jessica Perez called into Beaufort County Stormwater on 07/06/2018 concerned about illegal dumping activity in a stormwater drain. She said i	1344
821	Litter / Illegal Dumping	Closed	7/29/2018 18:34	7/30/2018 11:06	49 Oldfield Village Rd	Beaufort County	120	Artrell Horne	Litter/trash bags in the center median turning into the Catholic School.	1048
875	Litter / Illegal Dumping	Closed	8/23/2018 15:19	9/10/2018 9:08	2037 Okatie Hwy	Beaufort County	120	Artrell Horne	Quite a bit of garbage along the right side exiting Highway 278 westbound on to Highway 170. Also quite a bit of large garbage and trash bags i	1048
765	Litter / Illegal Dumping	Closed	7/12/2018 9:40	7/30/2018 11:02	68 Helmsman Way	Town of Hilton Head	120	John Miller	This is a picture of the trailer Bluewater Adventures has permanently parked here to do oil changes.	1389
876	Litter / Illegal Dumping	Closed	8/23/2018 21:49	9/10/2018 9:08	3491 Okatie Hwy	Town of Bluffton	120	Artrell Horne	Litter ALL over the highway and median never picked up before cutting happened	1423
766	Litter / Illegal Dumping	Closed	7/12/2018 9:42	7/30/2018 11:02	60 Helmsman Way	Town of Hilton Head	120	Artrell Horne	This car and trailer have been parked here for weeks. 48 hours is supposed to be the limit	1389
627	Litter / Illegal Dumping	Closed	2/14/2018 9:40	2/16/2018 8:39	19 Donaldson Camp Rd	Beaufort County	120	Cindy Carter	Trash , diapers box scattered between camp donaldson rd an back entrance to shadow moss	1247
878	Litter / Illegal Dumping	Open	8/25/2018 13:02	11/28/2018 15:19	11 Haig Point Rd	Beaufort County	120	Jerry Stanley	Sail boat moored for months on public dock	1425
628	Litter / Illegal Dumping	Closed	2/14/2018 11:48	2/16/2018 8:38	98 Fording Island Rd	Town of Bluffton	120	Cindy Carter	Mattress and box spring dumped	1335
690	Litter / Illegal Dumping	Closed	4/25/2018 11:42	4/26/2018 8:18	1594 Carolina Ave	Beaufort County	120	Artrell Horne	Illegal/Dumped Trash	1280
665	Litter / Illegal Dumping	Closed	3/23/2018 16:02	3/30/2018 10:56	1125 Bluffton Pkwy	Beaufort County	120	Cindy Carter	Looks like a broken bag of trash scattered along the road, westbound right before the school.	1050
972	Litter / Illegal Dumping	Closed	11/9/2018 8:45	11/27/2018 10:52	7 Okatie Hwy	Beaufort County	120	Artrell Horne	Tires and a large trash bag that is waiting to explode on hwy	1444
778	Litter / Illegal Dumping	Closed	7/18/2018 15:46	7/19/2018 18:38	161 Alston Rd	Beaufort County	120	Cynthia Martin	Trash can full and overflowing. I already picked up what is pictured but the can itself if full. Water Festival participants will trash our landing ag	1396
890	Litter / Illegal Dumping	Closed	8/28/2018 18:53	9/10/2018 10:57	55w Jennings Island Rd	Beaufort County	120	Artrell Horne	Trash on sidewalk	1292
592	Litter / Illegal Dumping	Closed	12/3/2017 17:06	12/21/2017 8:45	179 Fording Island Rd	Beaufort County	120	Cindy Carter	Litter up and down 278 in the medians and shoulders all the way from I-95 to HHI. Disgraceful. If the county can't afford litter cleanup use com	1212
647	Litter / Illegal Dumping	Closed	2/28/2018 14:15	3/6/2018 9:15	128 Castle Rock Rd	Beaufort County	120	Cindy Carter	Trash on the side of the road. Large garbage bags	1292
898	Litter / Illegal Dumping	Closed	8/30/2018 13:01	9/18/2018 10:21	274 Bruce K Smalls Dr	Beaufort County	120	Artrell Horne	Litter in ditch from fence that was torn down and tossed into roadside ditch.	1428
992	Litter / Illegal Dumping	Closed	11/21/2018 8:47	11/28/2018 15:14	69 Shelter Cove Ln	Town of Hilton Head	120	John Miller	Appears to be a half sunken upside down pontoon craft of some type	1475
685	Litter / Illegal Dumping	Closed	4/21/2018 13:22	4/25/2018 8:53	2863 Trask Pkwy	Beaufort County	120	Artrell Horne	Trash in the grassy area	1292
864	Litter / Illegal Dumping	Closed	8/13/2018 10:02	8/16/2018 7:31	1009 Sams Point Rd	Beaufort County	120	Artrell Horne	Samâ€™s Point Landing - trashcan full and trash is all over Landing.	1396
607	Litter / Illegal Dumping	Closed	1/19/2018 14:19	1/24/2018 13:30	493 Okatie Hwy	Beaufort County	120	Cindy Carter	Parts of insulated duct for air conditioner on the side of the road.	1292
608	Litter / Illegal Dumping	Closed	1/23/2018 14:46	1/30/2018 9:18	104 Industrial Village Rd	City of Beaufort	120	Cindy Carter	Garbage on side of road has been there for weeks, rights across from county buildings at Beaufort Industrial Village	1048
815	Litter / Illegal Dumping	Closed	7/29/2018 11:01	7/30/2018 10:54	475 Brickyard Point Rd N	Beaufort County	120	Cynthia Martin	Trash dumped.	1143
870	Litter / Illegal Dumping	Closed	8/19/2018 21:22	9/10/2018 9:07	1594 Carolina Ave	Beaufort County	120	Artrell Horne	Sofa & chair dumped illegally on side or dirt road.	1280
762	Litter / Illegal Dumping	Closed	7/12/2018 9:29	7/30/2018 11:21	68 Helmsman Way	Town of Hilton Head	120	John Miller	This trailer belongs to Bluewater Adventures from Shelter Cove. It is permanently stored here and this is where there do all of their service inc	1389
763	Litter / Illegal Dumping	Closed	7/12/2018 9:34	7/27/2018 14:19	68 Helmsman Way	Town of Hilton Head	120	John Miller	This dinghy Has been here for months. Obviously nobody is checking the slot as trailers cars are boats are not supposed to be here more than	1389
920	Litter / Illegal Dumping	Closed	9/18/2018 10:01	9/24/2018 9:42	999 Fording Island Rd	Beaufort County	120	Artrell Horne	5 or 6 water bottle packages exploded on the side of the road	1395
764	Litter / Illegal Dumping	Closed	7/12/2018 9:37	7/30/2018 11:02	68 Helmsman Way	Town of Hilton Head	120	John Miller	This boat has been here for months. Obviously nobody is checking the slot as trailers cars are boats are not supposed to be here more than 48	1389
833	Litter / Illegal Dumping	Closed	8/2/2018 15:08	8/3/2018 14:16	5035 Dogwood St	Beaufort County	120	Artrell Horne	Someone dumped a bunch of garbage across the street from our house. Mattresses, dresser, couch cushions & big black garbage bags.	1409
922	Other Issue/Request	Closed	9/24/2018 14:39	10/18/2018 9:27	62 Prospect Rd	Beaufort County	120	Jerry Stanley	Underground cable exposed	1392
923	Other Issue/Request	Closed	9/25/2018 14:56	11/14/2018 14:46	50 Sands Beach Rd	Town of Port Royal	120	Bobby Anderson	End dock retaining bar has slipped out about six inches. Could seriously damage a boat.	1120
924	Other Issue/Request	Closed	9/25/2018 18:55	10/17/2018 14:50	3491 Okatie Hwy	Town of Bluffton	120	Cynthia Martin	Excessive rocks, debris, dirt, car parts in intersection. Dangerous conditions especially for motorcyclists.	1423
767	Other Issue/Request	Closed	7/12/2018 17:49	7/30/2018 11:01	68 Helmsman Way	Town of Hilton Head	120	John Miller	Here another here for several days. 48 hour parking supposedly. This place is more like public storage.	1389

768	Other Issue/Request	Closed	7/12/2018 17:51	7/30/2018 11:01	68 Helmsman Way	Town of Hilton Head	120	John Miller	This lovely family from Tennessee is off to Daufuskie for a week. Apparently the rental companies are telling them the 48 hour sign does not allow Sidewalks trip hazard	1389
									Submitted for second time	
963	Other Issue/Request	Closed	10/30/2018 10:01	10/30/2018 12:51	36 Persimmon St Unit-206	Town of Bluffton	120	Cynthia Martin	Very dangerous Now they have added another car to the mix. This additional one has been here more than two days and then theres the one with the trailer thats been here who knows how long.	1372
769	Other Issue/Request	Closed	7/15/2018 7:05	7/27/2018 14:19	68 Helmsman Way	Town of Hilton Head	120	John Miller	Can somebody get on it before this place is a full on dumping ground?	1389
879	Other Issue/Request	Closed	8/25/2018 13:05	11/28/2018 15:08	11 Haig Point Rd	Beaufort County	120	Jerry Stanley	One of the flood lights at county dock on Daufuskie has been out for a while. Might want to switch to LED	1425
661	Other Issue/Request	Closed	3/20/2018 11:18	3/20/2018 15:32	947 Sams Point Rd	Beaufort County	120	Jerry Stanley	VERY LARGE pine tree leaning ominously over Sam's Point Road. Have noticed increase in degree of lean recently. Potential for serious injury c	1147
693	Other Issue/Request	Closed	4/27/2018 17:59	6/19/2018 8:57	33 Sea Island Pkwy	City of Beaufort	120	Pamela Cobb	Sinking boat on side of road... not sure why picture is submitted sideways.	1137
770	Other Issue/Request	Closed	7/15/2018 7:09	7/27/2018 14:19	60 Helmsman Way	Town of Hilton Head	120	John Miller	Another one here 4 days now. Is there really a person in charge doing their job? Clearly no one has bothered with this place. Its not so hard to	1389
882	Other Issue/Request	Closed	8/26/2018 11:21	8/27/2018 12:56	102 Industrial Village Rd	City of Beaufort	120	Cynthia Martin	The painted lines on Industrial Village Road at the intersection of Industrial Village Road and Burton Hill Road are very faded and need to be re	1426
662	Other Issue/Request	Closed	3/21/2018 10:09	6/5/2018 7:07	37 Bridgewater Dr	Beaufort County	110	Matt Rausch	Homeowner states there is a sinkhole forming near the storm drain at the corner of his house. This area is a bus stop for children.	1327
792	Other Issue/Request	Closed	7/21/2018 19:05	7/23/2018 12:51	1849 Trask Pkwy	Beaufort County	120	Cynthia Martin	Sight line for traffic - turning from keans neck Rd South onto highway 21 - needs clearing.	1401
883	Other Issue/Request	Closed	8/26/2018 14:35	8/28/2018 10:02	272 Alljoy Rd	Beaufort County	110	Danny Polk	Looks like spill at the public landing and other places in the river	1398
664	Other Issue/Request	Closed	3/23/2018 14:34	4/2/2018 13:01	15 Russ Point Boat Lndg	Beaufort County	120	John Miller	Boat ramp is sanded in.	1048
774	Other Issue/Request	Closed	7/17/2018 12:48	8/9/2018 16:35	101 Summit Dr	Town of Hilton Head	120	Cynthia Martin	Illegal dumping. Household trash, microwave, bags of animal excrement. This usually occurs as a result of the trash dump being closed on Wed	1075
677	Other Issue/Request	Open	3/26/2018 6:46	11/28/2018 13:50	5601 Bluffton Pkwy	Beaufort County	120	John Miller	Guardrail damaged.	1050
728	Other Issue/Request	Closed	5/30/2018 21:00	5/31/2018 8:42	23 Marsh Dr	Beaufort County	120	Cynthia Martin	Hazardous tree hanging over the road. Will fall and take pit power lines or passerby	1378
974	Other Issue/Request	Closed	11/12/2018 10:26	11/30/2018 6:49	4 Parrot Creek Dr	Beaufort County	110	Matt Rausch	As depicted in this picture my drive is cracking and sliding so to the drainage ditch that was dug in front of my house. I spoke to someone in Ju	1440
670	Other Issue/Request	Closed	3/29/2018 15:19	4/5/2018 14:59	998 Robert Smalls Pkwy	Town of Port Royal	120	Cindy Carter	Litter all along right side of the road on the Causeway coming off the bridge headed north into Beaufort.	1048
639	Other Issue/Request	Closed	2/18/2018 16:06	7/17/2018 14:11	450 Sea Island Pkwy	Beaufort County	120	Pamela Cobb	Washed up boat still there. Floats closer and closer to road with each high tide. Contacted DNR, they said its the countys problem. The county	1137
978	Other Issue/Request	Closed	11/14/2018 12:40	11/30/2018 7:26	108 Fox Island Rd	Beaufort County	110	Cynthia Martin	Sinkhole on causeway.	1327
672	Other Issue/Request	Closed	4/1/2018 19:18	4/2/2018 9:50	20 Maxine Ln	Beaufort County	120	Cynthia Martin	Dead deer side of road.	1075
644	Other Issue/Request	Closed	2/22/2018 8:38	4/9/2018 8:25	218 Wimbee Creek Rd	Beaufort County	110	Matt Rausch	Homeowner states sinkhole is forming across the street from his residence.	1327
735	Other Issue/Request	Closed	6/7/2018 6:15	9/26/2018 9:59	23 Marsh Dr	Beaufort County	120	Jerry Stanley	Hazardous / dead tree on county easement. Going to fall in road and block street	1378
738	Other Issue/Request	Closed	6/11/2018 9:56	6/19/2018 16:41	225 Bay Pines Rd	Beaufort County	120		Dead animal in roadway	1075
679	Other Issue/Request	Closed	4/16/2018 11:24	4/17/2018 7:45	2 Malecon Dr	Beaufort County	110	Danny Polk	Parris island causeway , chemical spraying Landscape around Storm Water drain is sinking in, was fixed once incorrectly, dirt washed out in 2 days. It has been like this for 2 months.	1076
713	Other Issue/Request	Closed	5/22/2018 20:25	6/5/2018 20:00	37 Bridgewater Dr	Beaufort County	110	Matt Rausch	Corner is a bus stop, and kids can get hurt! Ramps (2) are seriously sanded over. Inside lane unusable at low tide.	1371
681	Other Issue/Request	Closed	4/17/2018 16:40	4/20/2018 13:04	50 Sands Beach Rd	Town of Port Royal	120	Cynthia Martin	This was previously reported months ago.	1120
991	Other Issue/Request	Closed	11/20/2018 14:21	11/28/2018 11:46	43 Sea Island Pkwy	Beaufort County	120	Bobby Anderson	There are no cleats on the dock of the Factory Creek Fishing Pier for kayaks to tie up to. Please install a few for park visitors.	1474
598	Other Issue/Request	Closed	12/15/2017 12:10	12/28/2017 7:39	135 Tenth Ave	Town of Bluffton	110	Matt Rausch	Storm drain has erosion around sides. It is starting to be a hazard. The side has holes along it.	1062
682	Other Issue/Request	Closed	4/19/2018 8:43	4/20/2018 8:31	134 Harbor Dr N	Beaufort County	110	Danny Polk	Harbor island. Complaint about runoff from construction site. Danny Polk will investigate.	1076
938	Other Issue/Request	Closed	10/17/2018 14:46	10/17/2018 15:42	3479 Okatie Hwy	Town of Bluffton	120	David Wilhelm	From the intersection of 278, all the way to the roundabout on 46 ... all curbs along HWY170 need to be cleared of debris and gone over by a c Trip hazard in sidewalk in public right away I have called this issue into public works and written a letter through my management company on this issue	1439
716	Other Issue/Request	Closed	5/23/2018 14:38	11/30/2018 15:04	36 Persimmon St Unit-204	Town of Bluffton	120	Tanner Powell	Multiple location on persimmons street	1372
744	Other Issue/Request	Closed	6/16/2018 22:25	11/14/2018 14:06	1 Blueberry Ct	Beaufort County	120	Cynthia Martin	Unsafe playground surface. Does not meet fall protection safety standards and needs immediate attention	1384
903	Other Issue/Request	Closed	9/3/2018 13:12	9/10/2018 9:07	33 Sea Island Pkwy	City of Beaufort	120	Antrell Horne	boat landing trash needs to pick up Guardrail damage on Bluffton parkway - end treatment to median guardrail.	1048
943	Other Issue/Request	Open	10/19/2018 7:06	12/5/2018 13:43	79 Tabby Trl	Beaufort County	120	Cynthia Martin	Transfer to Public Works	1050
752	Other Issue/Request	Closed	6/25/2018 14:03	7/12/2018 10:53	100 Marshland Rd	Town of Hilton Head	120	Cynthia Martin	We believe that the correct address for this location is 97 Marshland Road. It's causing confusion among visitors. Guardrail damage on Bluffton parkway - section of W beam and posts in median guardrail.	1386
944	Other Issue/Request	Open	10/19/2018 7:07	12/5/2018 13:45	9 Kellie Ct	Beaufort County	120	Cynthia Martin	Transfer to Public Works Delete previous request at this location.	1050
755	Other Issue/Request	Closed	7/2/2018 14:13	9/18/2018 10:24	19 Sheridan Park Cir Unit-d	Town of Bluffton	120	Cynthia Martin	Grass not cut 3 feet high	1372
997	Other Issue/Request	Received	11/28/2018 23:51	11/29/2018 9:09	86 Back Watch Dr	Beaufort County	120	Jerry Stanley	Large concrete blocks left from Bluffton Pkwy extension and flyover construction need to be removed from the Gatherings property ASAP.	1472
952	Other Issue/Request	Closed	10/21/2018 9:46	11/1/2018 9:25	35 Fordling Island Rd Ext	Beaufort County	120	Cynthia Martin	Mens restroom looks like it hasnt been cleaned in months!	1392
610	Other Issue/Request	Closed	1/26/2018 12:15	2/21/2018 12:34	4006 Luella St	Beaufort County	120	Jerry Stanley	Both Luella Street and Lake Melton Street in Shell Point become quickly saturated during periods of rain causing excessive amounts of mud, ru	1325
611	Other Issue/Request	Closed	1/29/2018 10:48	2/9/2018 10:19	4014 Magnolia St	Beaufort County	110	Danny Polk	Dirt piled up on lot, neighbor concerned about drainage ditch.	1076
918	Other Issue/Request	Closed	9/14/2018 11:05	9/17/2018 9:55	2305 Lafayette St	City of Beaufort	120	Cynthia Martin	2 stolen shopping carts laying beside of road in overgrown areas.	1375
874	Other Issue/Request	Closed	8/23/2018 10:00	8/28/2018 17:35	4 Irongate Dr	Beaufort County	110	Matt Rausch	Driveway pipe cracked and breaking.	1327
617	Other Issue/Request	Closed	2/9/2018 8:52	2/13/2018 11:46	75 Ihly Farm Rd	Beaufort County	120	Matt Rausch	Gate to back field of County land has been mangled and torn off its hinges.	1280
786	Pipe/Culvert Clogged	Closed	7/19/2018 11:00	8/3/2018 14:29	12 Spartina St	Beaufort County	110	Matt Rausch	Culvert needs cleaned out. Believes sediment from road grading is causing the water to not drain.	1055
687	Pipe/Culvert Clogged	Closed	4/23/2018 11:08	6/26/2018 7:25	15 Marquis Way	Beaufort County	110	Matt Rausch	Homeowner states the culvert is clogged because it has not been maintained and is overgrown.	1327
961	Pipe/Culvert Clogged	Closed	10/25/2018 10:18	11/30/2018 6:31	65 Burton Wells Rd	Beaufort County	110	Matt Rausch	Clogged pipe	1375
718	Pipe/Culvert Clogged	Closed	5/24/2018 8:18	6/5/2018 6:55	8 Kaminsky Ln	Beaufort County	110	Matt Rausch	Storm drain clogged.	1327
620	Pipe/Culvert Clogged	Closed	2/12/2018 11:22	4/9/2018 9:12	255 Old Baileys Rd	Beaufort County	110	Matt Rausch	Ditch clogged looks as though the pipe may be broken or collapsed.	1055
964	Pipe/Culvert Clogged	Closed	11/1/2018 9:20	11/5/2018 8:45	102 Ribaut Rd	City of Beaufort	110	Matt Rausch	Curb Inlet clogged behind Detention Center.	1467
724	Pipe/Culvert Clogged	Closed	5/29/2018 10:14	6/14/2018 9:25	106 Le Moyne Ct	Beaufort County	110	Matt Rausch	Storm drain clogged.	1327
842	Pipe/Culvert Clogged	Closed	8/5/2018 14:58	8/28/2018 17:17	16 Cheehaw Dr	Beaufort County	110	Matt Rausch	Standing water encroaching back patio from heffalump Rd	1408
828	Pipe/Culvert Clogged	Closed	8/1/2018 9:07	10/4/2018 15:50	14 Palmetto Beach Ln	Beaufort County	110	Matt Rausch	The culvert under the driveway is clogged with debris causing the water not to flow.	1327
884	Pipe/Culvert Clogged	Closed	8/27/2018 9:36	8/31/2018 8:49	62 Levant Byas Rd	Beaufort County	110	Matt Rausch	Pipe that comes from the road, across property to the marsh has holes developing and ground sinking around the pipe. Pipe carrying a lot of t	1055
634	Pipe/Culvert Clogged	Closed	2/15/2018 13:07	6/5/2018 7:16	83 Heartstone Cir	Beaufort County	110	Matt Rausch	Customer states that there is a clogged line or pipe because the water from the creek is backing up building towards potentially flooding her a	1327
668	Pipe/Culvert Clogged	Closed	3/26/2018 10:34	4/2/2018 8:24	4 Marsh Palms Pl	Beaufort County	110	Danny Polk	Address for point of reference. Outlet pipes between Rose Hill and Belfair are separating and sinking into the mud	1055
698	Pipe/Culvert Clogged	Closed	5/9/2018 7:35	5/9/2018 7:40	112 Bonaire Cir S	Beaufort County	110	Danny Polk	Complaint about ditch being blocked off.	1076
798	Pipe/Culvert Clogged	Closed	7/23/2018 11:35	8/2/2018 12:37	1511 Quarter Horse Rd	Beaufort County	110	Matt Rausch	Culvert pipe clogged and possibly damaged. Hole at top of drive above pipe. Water not flowing through and sitting to the right of the drivewa	1055
671	Pipe/Culvert Clogged	Closed	3/30/2018 12:37	6/5/2018 7:31	32 Bay Pines Dr	Town of Hilton Head	110	Matt Rausch	There is a block preventing the water from flowing. The water is stagnant.	1327
643	Pipe/Culvert Clogged	Closed	2/21/2018 11:25	4/11/2018 9:25	31 Garrett Smalls Rd	Beaufort County	110	Matt Rausch	Homeowner states the culvert is sealed/closed off at the end of the road and when it rains the water backs up on his property.	1327

712	Pipe/Culvert Clogged	Closed	5/22/2018 9:32	8/2/2018 13:03	2 Southern Magnolia Dr	Beaufort County	110	Matt Rausch	Culvert is filled with dirt causing water to back up on property.	1327
714	Pipe/Culvert Clogged	Closed	5/23/2018 14:34	6/5/2018 6:57	3063 Huron Dr	Beaufort County	110	Matt Rausch	Culvert runs beneath the driveway and the earth around it is eroding causing it to collapse	1327
651	Pipe/Culvert Clogged	Closed	3/8/2018 8:14	4/9/2018 8:18	153 Castle Rock Rd	Beaufort County	110	Matt Rausch	Driveway pipe clogged and roadside ditch needs cleaned.	1055
807	Pipe/Culvert Clogged	Closed	7/24/2018 15:47	8/2/2018 12:33	4027 Shell Point Rd	Beaufort County	110	Matt Rausch	Rain flows down street and nowhere to drain except the yard. There is no ditch or covert.	1180
901	Pipe/Culvert Clogged	Closed	8/31/2018 13:31	11/30/2018 6:57	29 Plantation Park Dr Unit-103b	Town of Bluffton	110	Matt Rausch	Curb inlet damaged.	1050
599	Pipe/Culvert Clogged	Closed	12/18/2017 12:59	1/19/2018 8:01	12 Bent Tree Ln	Beaufort County	110	Matt Rausch	Water in Culvert that connects to the marsh never leaves when the tide goes out.	1055
683	Pipe/Culvert Clogged	Closed	4/19/2018 12:32	6/5/2018 7:08	298 Red Cedar St	Town of Bluffton	110	Matt Rausch	Storm drain is missing a cover.	1327
652	Pipe/Culvert Clogged	Closed	3/8/2018 10:56	6/5/2018 7:32	28 Little Creek Rd	Beaufort County	110	Matt Rausch	Culverts are clogged	1055
902	Pipe/Culvert Clogged	Closed	9/2/2018 14:53	11/30/2018 7:25	2 Southern Magnolia Dr	Beaufort County	110	Matt Rausch	Second time submitting this request. When the state highway was extended with the shoulders the buried the culverts that are on the county r Pipe maybe failing.big dip, box unlevel	1376
940	Pipe/Culvert Clogged	Closed	10/17/2018 17:29	11/30/2018 6:32	464e Buckwalter Pkwy	Beaufort County	110	Matt Rausch	Direct this to county Stormwater.	1050
869	Pipe/Culvert Clogged	Closed	8/19/2018 21:07	8/20/2018 9:00	1506 Laudonniere St	City of Beaufort	110	Cynthia Martin	Strom water drain clogged. Floods road during heavy rain.	1375
609	Pipe/Culvert Clogged	Closed	1/23/2018 17:49	4/9/2018 9:40	3502 Morgan River Dr S	Beaufort County	110	Matt Rausch	Pipe clogged and is causing erosion in the ditch.	1324
760	Pipe/Culvert Clogged	Closed	7/10/2018 14:35	7/10/2018 15:01	859 Sea Island Pkwy	Beaufort County	110	Danny Polk	DHEC called about a drainage problem at this location. They stated that a pipe might be clogged and that it is causing water to pool up around	1076
816	Pipe/Culvert Clogged	Closed	7/29/2018 13:24	8/8/2018 7:18	19 Katelyns Way	Beaufort County	110	Matt Rausch	Culvert is clogged. Property floods when it rains hard.	1400
913	Pipe/Culvert Clogged	Closed	9/10/2018 8:20	9/28/2018 7:38	41 Lucy Creek Dr	Beaufort County	110	Matt Rausch	The pipe underneath the driveway is clogged. Causes the road to flood in a bad storm. I tried to dig it out but itâ€™s clogged further than my s	3
819	Pipe/Culvert Clogged	Closed	7/29/2018 15:55	10/12/2018 7:53	132 Dolphin Point Dr	Beaufort County	110	Matt Rausch	Ditch not draining. Maybe pipe on adjacent lot.	1050
832	Pipe/Culvert Clogged	Closed	8/2/2018 14:09	11/30/2018 7:23	14 Rivers Hill Rd	Beaufort County	110	Matt Rausch	The ditch at the beginning of Rivers Hill Road has stagnant water. Resident believes culvert clogged with debris.	1327
655	Pothole on Paved Road	Closed	3/9/2018 12:53	3/14/2018 10:19	2015 Boundary St	City of Beaufort	120	Jerry Stanley	Pothole at the main entrance to the county admin buildings right as you turn onto Marsh Road from Boundary Street.	1048
619	Pothole on Paved Road	Closed	2/11/2018 19:43	2/12/2018 8:50	4000 Okatie Hwy	Beaufort County	120	Cynthia Martin	Pothole SC 170 eastbound near heritage at new riverside	1330
688	Pothole on Paved Road	Closed	4/25/2018 9:19	5/16/2018 11:14	208 Locust Fence Rd	Beaufort County	120	Jerry Stanley	Pothole at end of Dolly Kane on Coosaw Island. This is getting bigger and bigger	1171
925	Pothole on Paved Road	Closed	9/26/2018 8:50	10/19/2018 15:04	182 Cherokee Farms Rd	Beaufort County	120	Jerry Stanley	Pothole in eastbound direction	1053
721	Pothole on Paved Road	Closed	5/25/2018 17:10	6/25/2018 9:10	2 Le Moyne Dr	Beaufort County	120	Jerry Stanley	Entering LeMoyne Dr off of Middle Rd the pavement is breaking off causing a safety concern	1374
727	Pothole on Paved Road	Closed	5/30/2018 13:51	6/5/2018 13:59	148 Burton Wells Rd	Beaufort County	120	Jerry Stanley		1322
669	Pothole on Paved Road	Closed	3/28/2018 19:54	5/15/2018 7:56	3524e Trask Pkwy	Beaufort County	120	Jerry Stanley	Several very bad potholes coming out of the parking lot in the road at the Shell station	1048
779	Pothole on Paved Road	Closed	7/18/2018 19:09	8/9/2018 10:34	15 Community Center Rd	Beaufort County	120	Bobby Anderson	Pot hole located in driveway at exit of Dale Center	1398
927	Pothole on Paved Road	Closed	9/28/2018 8:14	10/22/2018 10:06	3 Flounder St	Beaufort County	120	Jerry Stanley	2 foot hole in road near stormdrain. Address for point of reference.	1055
929	Pothole on Paved Road	Closed	10/1/2018 10:50	10/9/2018 10:18	10 Brickyard Hills Dr	Beaufort County	120	Jerry Stanley	Hole location: intersection of Brickyard Point Rd and Brickyard Hills Dr. Large pothole was repaired within past few months but not sufficiently	1434
973	Pothole on Paved Road	Closed	4/1/2018 19:21	4/2/2018 9:46	24w Maxine Ln	Beaufort County	120	Cynthia Martin	Walkway sink hole developing.	1075
631	Pothole on Paved Road	Closed	10/8/2018 9:44	10/8/2018 10:13	81 Sams Point Rd	Beaufort County	120	Cynthia Martin	If you are headed on Sam's point Rd back towards Walgreens there are a string of repairs in the left lane between Factory Creek Rd and Miller	1048
646	Pothole on Paved Road	Closed	2/28/2018 10:39	3/8/2018 9:07	1125 Bluffton Pkwy	Beaufort County	120	Jerry Stanley	Pothole in right lane westbound on Bluffton Parkway between Hampton Lakes and Rt 170	1339
708	Pothole on Paved Road	Closed	5/18/2018 16:42	6/21/2018 10:48	140 Coosaw River Dr	Beaufort County	120	Jerry Stanley	This part of road was never paved. Corner of friendship and Coosaw River drive. Fills up with water and you can do a lot of damage to your car	1171
932	Pothole on Paved Road	Closed	10/8/2018 15:27	10/8/2018 15:56	14 John Galt Rd	City of Beaufort	120	Cynthia Martin	Huge pothole	1005
858	Pothole on Paved Road	Closed	8/9/2018 14:22	11/30/2018 10:20	135 Old Salem Rd	City of Beaufort	120	Bobby Anderson	Several DEEP pot holes on road	1416
933	Pothole on Paved Road	Closed	10/10/2018 11:43	10/22/2018 15:31	39 Gannett Point Rd	Beaufort County	120	Jerry Stanley	Dog Creek and Gannett point pot holes	1171
739	Pothole on Paved Road	Open	6/11/2018 10:06	10/17/2018 15:35	36 Persimmon St Unit-206	Town of Bluffton	120	Jerry Stanley	Pot hole cracks at entrance to commercial building	1372
741	Pothole on Paved Road	Closed	6/13/2018 14:53	8/14/2018 19:47	880 Fording Island Rd Unit-7	Town of Bluffton	120	Jerry Stanley	Pot hole Road cracking heavily Large pot hole	1372
715	Pothole on Paved Road	Open	5/23/2018 14:35	10/17/2018 15:36	39 Persimmon St Unit-602	Town of Bluffton	120	Jerry Stanley	Have called this in and written letters about through my property management company	1372
717	Pothole on Paved Road	Open	5/23/2018 14:41	10/17/2018 15:53	39 Persimmon St Unit-501	Town of Bluffton	120	Jerry Stanley	Pot hole asphalt breaking down at entrance to 36 persimmons street on right away	1372
995	Pothole on Paved Road	Received	11/26/2018 16:27	12/3/2018 10:03	4199 Bluffton Pkwy	Town of Bluffton	120	Jerry Stanley	There are numerous potholes on Bluffton Pkwy going west from Buck Island	1453
948	Pothole on Paved Road	Closed	10/19/2018 18:19	10/22/2018 10:09	36 Davidson Blvd	Beaufort County	120	Cynthia Martin	Clarendon Rd is a disgrace. Filled with repair after repair using what looks like asphalt leftover from paving other roads. A worker told me 6 mc	1449
950	Pothole on Paved Road	Closed	10/19/2018 18:23	10/22/2018 9:39	589 Eddings Point Rd	Beaufort County	120	Cynthia Martin	Several pot holes	1451
951	Pothole on Paved Road	Closed	10/20/2018 7:09	10/22/2018 9:33	101 Okatie Center Blvd S	Beaufort County	120	Cynthia Martin	Pothole is about 3 feet wide and 4 feet long	1453
911	Pothole on Paved Road	Closed	9/8/2018 13:52	9/18/2018 10:23	400 Buckwalter Pkwy	Town of Bluffton	120	Jerry Stanley	Sink hole	1330
998	Pothole on Paved Road	Closed	11/29/2018 11:52	12/5/2018 13:40	122 Joe Frazier Blvd	Beaufort County	120	Jerry Stanley	Both ends of Burton Wells road have bad potholes at the intersections of Joe Frazier and Pine Grove.	1388
953	Pothole on Paved Road	Closed	10/21/2018 14:40	11/30/2018 10:19	2212 Salem Dr W	Beaufort County	120	Bobby Anderson	Large pothole near second entrance to Battery Point sub division. Old salem road.	1454
818	Pothole on Paved Road	Closed	7/29/2018 13:48	7/30/2018 10:53	1502 Laudonniere St	City of Beaufort	120	Cynthia Martin	Pothole	1375
612	Pothole on Paved Road	Closed	1/29/2018 18:12	1/30/2018 15:36	4 Gum Tree Ln	Beaufort County	120	Jerry Stanley	Huge pot hole Browns Island rd and gum tree intersection	1326
820	Pothole on Paved Road	Closed	7/29/2018 16:03	11/28/2018 15:09	2 Le Moyne Dr	Beaufort County	120	Jerry Stanley	Pavement chipping away. Drivers swing too wide off of Middle Rd into Telfair on LeMoyne Dr. There has already been an accident.	1374
960	Pothole on Paved Road	Closed	10/23/2018 14:27	11/14/2018 13:46	148 Burton Wells Rd	Beaufort County	120	Jerry Stanley	Pot holes	1375
834	Yard/Street Flooded	Closed	8/2/2018 17:41	8/29/2018 14:54	104 Laurel St E	Beaufort County	110	Matt Rausch	Erosion of yard near drainage ditch filling ditch with the erosion / dirt.	1075
626	Yard/Street Flooded	Closed	2/13/2018 15:00	4/9/2018 8:55	161 Ball Park Rd	Beaufort County	110	Matt Rausch	Flooding when it rains	1055
787	Yard/Street Flooded	Closed	7/19/2018 11:51	8/3/2018 14:20	10 Rose Mary Dr	Beaufort County	110	Matt Rausch	Issues with flooding on this property and on Johns place stemming from drainage off issues off the main road Drainage issue on Old Salem Rd near Salem Rd	1055
788	Yard/Street Flooded	Closed	7/19/2018 14:23	8/2/2018 12:42	135 Old Salem Rd	City of Beaufort	110	Matt Rausch		1055
839	Yard/Street Flooded	Closed	8/3/2018 15:08	8/29/2018 15:01	10 Butler Farm Rd	Beaufort County	110	Matt Rausch	Address for point of reference only - Ditch in this area is clogged and causing water to come over top of the road at Jasmine Hall Rd and Butler	1055
621	Yard/Street Flooded	Closed	2/13/2018 13:58	4/9/2018 9:07	107 Coffin Point Rd	Beaufort County	110	Matt Rausch	Drainage/Flooding concerns on Coffin Point near 107 and 28.	1055
789	Yard/Street Flooded	Closed	7/19/2018 15:00	8/2/2018 12:41	36 Halifax Dr	Beaufort County	110	Matt Rausch	Water not going down and on the road near Halifax Rd and Whitfield Ln.	1055
840	Yard/Street Flooded	Closed	8/3/2018 16:10	8/29/2018 15:19	1 Dan Dr	Beaufort County	110	Matt Rausch	Yard flooded. Crossover pipe clogged.	1100
826	Yard/Street Flooded	Closed	7/31/2018 13:26	8/3/2018 14:41	16 Cheehaw Dr	Beaufort County	110	Matt Rausch	Culverts are overgrown causing water to be stagnant and flooding in the back yard.	1327
632	Yard/Street Flooded	Closed	2/15/2018 9:27	2/16/2018 13:22	110 Toppin Dr	Beaufort County	110	Danny Polk	Neighbor concerned about new house causing runoff on property.	1076
843	Yard/Street Flooded	Closed	8/6/2018 8:37	8/29/2018 15:07	12 Cheehaw Dr	Beaufort County	110	Matt Rausch	Back yard flooding. Resident suspects Heffalump as the cause or a clogged drain.	1050
695	Yard/Street Flooded	Closed	5/1/2018 9:41	6/5/2018 7:28	29 Old Distant Island Rd	Beaufort County	110	Matt Rausch	Ongoing drainage problem	1055
636	Yard/Street Flooded	Closed	2/15/2018 15:35	8/2/2018 12:52	225 Baynard Dr	Beaufort County	110	Matt Rausch	Customer states there is flooding and standing water in the area. Customer has pictures and has concerns with machinery going on property d	1327
777	Yard/Street Flooded	Closed	7/18/2018 15:37	8/3/2018 14:31	18 Marblehead Rd	Town of Hilton Head	110	Matt Rausch	Homeowner states, the ditch is clogged and water is stagnant causing flooding in the yard. Also culverts near home appear to be damaged whi	1327
									Backyard and side ditch is flooded and has no where to drain. There is no ditch to allow water to get to the pond on the golf course that connects to the county maintained ditch on the other side.	
846	Yard/Street Flooded	Open	8/7/2018 8:53	12/3/2018 7:30	138 Wade Hampton Dr	Beaufort County	110	Eric Larson	Just wanted to bring this back up and see if we can get some action out of the golf course owner and maybe get a ditch to connect the pond.	1048
886	Yard/Street Flooded	Closed	8/28/2018 7:01	11/30/2018 7:26	6 Chinaback Dr	Beaufort County	110	Matt Rausch	Drains and ditches are blocked on corners of Laughing Gull drive and Chinaback and Osprey and Chinaback. During a heavier rain, road is flood	1427
849	Yard/Street Flooded	Closed	8/7/2018 15:58	8/29/2018 15:18	31 Okatie Bluff Rd	Beaufort County	110	Matt Rausch	Driveway and yard flooding due to poor drainage. When we first bought this property a gentleman named Zeke from the county resolved this	1412
850	Yard/Street Flooded	Closed	8/8/2018 7:59	8/31/2018 9:10	69 James F Byrnes St	Beaufort County	110	Eric Larson	Owner says water from street flooding his property.	1076
674	Yard/Street Flooded	Closed	4/2/2018 9:16	6/5/2018 7:34	14007 Kader St	Beaufort County	110	Matt Rausch	Homeowner states when it rains his yard and home is flooded.	1327
677	Yard/Street Flooded	Closed	4/5/2018 13:38	6/5/2018 7:12	5027 Dogwood St	Beaufort County	110	Matt Rausch	Occasional flooding in back yard.	1055
806	Yard/Street Flooded	Closed	7/24/2018 15:45	8/2/2018 12:34	4029 Shell Point Rd	Beaufort County	110	Matt Rausch	Rain flows down street to our yard and backs up into yard. No where for water to flow. Ditch stops. water at 4027 and 4031	1180

939	Yard/Street Flooded	Closed	10/17/2018 14:59	11/15/2018 9:02	78 Alston Rd	Beaufort County	110	Danny Polk	Drainage issue and portion of property flooding.	1055
868	Yard/Street Flooded	Closed	8/16/2018 11:16	8/29/2018 14:54	3 Bellinger Bluff Rd	Beaufort County	110	Matt Rausch	Standing water concern	1055
781	Yard/Street Flooded	Closed	7/19/2018 9:40	8/29/2018 15:13	2207 Salem Dr W	Beaufort County	110	Matt Rausch	Flooding real bad. We have reported on several occasion. I have been told that the ditches are the county and the city and nobody wants to ta	1399
782	Yard/Street Flooded	Closed	7/19/2018 9:43	7/20/2018 9:44	2207 Salem Dr W	Beaufort County	110		Flooding real bad. We have reported on several occasion. I have been told that the ditches are the county and the city and nobody wants to ta	1399
761	Yard/Street Flooded	Closed	7/10/2018 14:43	11/15/2018 9:06	56 Greenwood Dr	Beaufort County	110	Danny Polk	54 greenwood drive reported that the new house at 56 Greenwood is causing excess water to flow onto his property	1076
783	Yard/Street Flooded	Closed	7/19/2018 10:07	7/20/2018 9:43	2207 Salem Dr W	Beaufort County	110		More pics Drain pipe gurgling and water extremely high	1399
784	Yard/Street Flooded	Closed	7/19/2018 10:42	8/29/2018 15:12	158 Palmetto Bluff Rd	Beaufort County	110	Matt Rausch	Water is stagnant and not draining causing flooding on property.	1327
785	Yard/Street Flooded	Closed	7/19/2018 10:50	11/30/2018 7:24	11 Mockingbird Dr	Beaufort County	110	Matt Rausch	Area around drainage in front yard is collapsing in.	1055

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	Target Audience	Measurable Goal(s)	Progress on Goal(s)	Activities Conducted and Planned	Specific Implementation Date(s)	Number of People Reached
POC #4, Petroleum Products, POC #6, POC #5, FOG, POC #3, POC #1, GSA	Summary of the Town of Bluffton's School Presentations	Youth, Teachers	These presentations sought to inform students about the Town of Bluffton's geography, marine waters, stormwater pollution, impervious surfaces, and ways to protect local water quality.	Completed	The Town of Bluffton visited Pritchardville Elementary, River Ridge Montessori, MC Riley Elementary, River Ridge Academy, and Red Cedar Elementary. Activities included building model watersheds, enviroscape demonstrations, and hands-on water quality monitoring.	3/16/18, 3/26/18, 3/28/18, 5/17/18, 9/19/18	560

GSA	Summary of the Town of Bluffton's May River Watershed Action Plan Advisory Committee (WAPAC) Meetings	Elected/Appointed Officials	The seven (7) 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.	Completed	WAPAC meetings are held the fourth Tuesday every month, except November and December due to holidays. Meetings are held at 10:00 a.m. at Town Hall, unless otherwise posted. At each meeting the Committee hears from senior Town staff and residents to discuss the latest findings within the May River watershed as well as to coordinate the fulfillment of the plan.	1/25/18, 2/22/18, 3/22/18, 4/26/18, 5/24/18, 7/26/18, 8/23/18, 9/27/18, 10/25/18, 11/29/18	100
POC #4, Toxins, POC #6, POC #5, Pesticide, POC #3, POC #1, GSA, POC #2	Summary the Town of Bluffton's HOA Presentations	Residents, Field Staff, Maintenance, Facilities, Pet Owners	These presentations sought to educate the audiences about stormwater, water quality, post-construction BMP maintenance, and floating wetlands.	Ongoing	Talks were given to the Palmetto Bluff, the Haven, and the Farm communities.	3/6/18, 9/7/18, 11/16/18	118
POC #4, GSA	Summary of Southern Lowcountry Regionalization Board (SoLoCo) Meetings	Elected/Appointed Officials	SoLoCo's goal is to create a regional think tank that will identify the problems and opportunities that face the southern Lowcountry, as defined by the members and regardless of municipal or county boundaries.	Completed	The Town of Bluffton presented upon the effects of litter in the Lowcountry and water quality issues.	3/20/18, 6/26/18	100
Toxins, POC #6, GSA	Summary of the Town of Bluffton's Sediment & Erosion Control Contractor/Developer Meetings	Technical Staff, Engineers, Developers, Contractors	These meeting seek to educate contractors and developers on sediment and erosion control requirements and to answer any of their answer questions.	Ongoing			666

POC #4, POC #3, GSA	Master Naturalist Volunteer Fair	Residents	The Lowcountry Master Naturalist Association Master Naturalist held this event to help its members find local volunteer and involvement opportunities.	Completed	The Town of Bluffton gave a brief presentation about volunteer opportunities that exist with the Town and LSP. This included the Town's 2 Annual Litter Cleanups and LSP's storm drain marking program. Master Naturalists had the opportunity to visit a table setup with LSP information and Town cleanup information.	1/23/18	100
GSA	The Town of Bluffton's Presentation to Beaufort Leadership	Residents	This presentation sought to explain the history and current initiatives of the Town of Bluffton's stormwater program.	Completed	This presentation included a discussion of local water quality and stormwater runoff.	2/21/18	15
BAD, GSA	The Town of Bluffton's Presentation to the SC Association of Stormwater Managers (SCASM)	Field Staff, Maintenance, Facilities, Supervisory Staff, Administrators, Stormwater Managers	This presentation sought to explain how microbial source tracking (MST) can help municipalities monitor watershed health and effectively reduce pollution.	Completed	Staff presented on the Town of Bluffton's microbial source tracking (MST) sampling program.	3/1/18	100
POC #3	The Town of Bluffton's May River Cleanup Electronic Billboard	General Public	The billboard's goal was to increase awareness of the Town of Bluffton's May River Cleanup. Its effectiveness was determined by participation in the event.	Completed	The electronic billboard was located off Highway 170.	4/6/18 - 4/28/18	150,000 *Estimated using most recently available 2017 SCDOT traffic data

POC #3, GSA	The Town of Bluffton's May River Cleanup Online and Print Articles	General Public	This media campaign sought to increase awareness of the Town of Bluffton's May River Cleanup. Its effectiveness was determined by participation in the event.	Completed	The media campaign included an article in the Bluffton Today (04/24/18 and 4/30/18), the Mayor's Memos in the Bluffton Today (04/22/18). The Town of Bluffton also distributed event information on the American Rivers website, Bluffton.com, 104.9 The Surf's website, SC 103.1 Radio's website, Fox 28 Media (04/24/18 & 4/25/18), as well as the Town of Bluffton's own website.	4/22/18, 4/24/18, 4/25/18, 4/30/18	
POC #3, POC #1, GSA	WJCL Television Interview Highlighting the Town of Bluffton's May River Cleanup	General Public	The media spot sought to increase awareness of the Town of Bluffton's May River Cleanup. Its effectiveness will be determined by participation in the event.	Completed	The live shot with WJCL aired 6:30am-7:00am on April 20, 2018.	4/20/18	
POC #3	The Town of Bluffton's May River Cleanup	General Public	The Annual May River Cleanup's goal 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 Town of Bluffton partnered with Keep Beaufort County Beautiful, Palmetto Pride, Port Royal Sound Foundation, Beaufort County Stormwater, i2 Recycle, Savannah Riverkeeper, and the Lowcountry Stormwater Partners to host the 18th Annual May River Cleanup. At this event, 350 volunteers picked up 2893 pounds of litter in/around the May River.	4/28/18	350

POC #3, GSA	Storm Drain Marking	General Public	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	Three volunteers marked 30 storm drains during the May River Cleanup.	4/28/18	3
POC #3	The Town of Bluffton's Keep Bluffton Beautiful Cleanup	General Public	This event sought to engage and involve citizens in removing litter from their environment. Its effectiveness will be determined through pounds of litter removed.	Completed	On 5/19/18, the Town of Bluffton, Beaufort County, Keep Beaufort County Beautiful, and Palmetto Pride partnered to have 30 volunteers spent 3 hours (90 volunteer hours) removing 1125 pounds of litter from the May River Watershed.	5/19/18	30
POC #2, POC #4, IDDE	Joint Town of Bluffton/Beaufort County Watershed Management Meeting	Technical Staff, Engineers, Developers	This meeting sought to educate elected officials and the public on issues within the May River watershed.	Completed	Participants discussed possible capital projects and funding sources to reduce bacteria and the number of septic tanks in the watershed.	6/26/18	75
POC #4, GSA	The Town of Bluffton's Presentation to the Kiwanis Club	Residents	This presentation's goal was to educate homeowners on the effects of stormwater runoff on water quality.	Completed		7/18/18	20
POC #4, GSA	Door-to-Door Delivery of Beaufort County's Pet Waste Brochure	Residents	This effort's goal was to increase the number of people who pick up pet waste.	Completed	The brochures were distributed in communities following the detection of the dog-associated microbial marker detection in the May River. County and Town staff gave 60 brochures to residents along May River Rd.	7/30/18	60

POC #3, GSA	The Town of Bluffton's Arts and Seafood Festival	General Public	The Bluffton Arts & Seafood Festival is a yearly week-long festival of local art, music, food, and education that promotes the protection of the May River.	Completed	The Town of Bluffton gave a presentation.	10/15/18	75
POC #4	From Data to Decisions: A Process Overview of Applied Science Driving Policy Development Presentation	Technical Staff, Engineers, Developers	This presentation's goal was to explain how the Town of Bluffton utilizes water quality data to drive management and policy decisions.	Completed	The Town of Bluffton gave this presentation at the South Carolina Water Resources Conference	10/15/18	50
POC #4, Toxins, POC #6, POC #5, POC #1, POC #2, GSA	Beaufort County Stormwater Utility Board Meetings	Residents, Technical Staff, Engineers, Developers, Elected/Appointed Officials	This board's purpose is to determine appropriate levels of public stormwater management services Beaufort County; to recommend appropriate funding levels for program elements; to advise the staff on master planning efforts and cost of service/rate studies; and to support and promote sound stormwater management practices within Beaufort County.	Completed	Meetings are normally held on the third Wednesday of each month at 2:00 p.m. They are held in the Executive Conference Room, Administration Building, Beaufort County Government Robert Smalls Complex, 100 Ribaut Road, Beaufort and are open to the public.	1/10/18, 2/14/18, 3/14/18, 4/11/18, 5/9/18, 6/11/18, 7/11/18, 8/8/18, 9/12/18, 10/10/18, 11/14/18, 12/12/18	120
POC #4, POC #3, GSA	The Town of Bluffton's Presentation to the Palmetto Bluff Conservancy	Residents	This presentation's goal was to describe to homeowners how stormwater runoff affects water quality.	Completed		9/7/18	20

POC #3	Lowcountry Litter Cleanup Day	Residents, Technical Staff, Engineers, Developers, Elected/Appointed Officials	This event's goal was to engage and involve citizens in removing litter from their environment. Its effectiveness will be determined through number of volunteers and pounds of litter removed.	Completed	On 11/1/18, Beaufort County, Keep Beaufort County Beautiful, the Town of Bluffton, the Town of Hilton Head Island partnered to host this county-wide event. 100 volunteers spent three hours (for a total of 300 volunteer hours) removing 19,185 pounds of litter.	11/1/18	100
POC #1	The Town of Bluffton's Discussion with the Tabby Roads HOA	Residents	This meeting's goal was to answer questions about BMP inspections, maintenance and annual reporting to ensure they are compliant with MS4 and Town UDO requirements.	Completed	Town of Bluffton staff met with HOA leaders and answered their questions.	8/31/18	2
POC #1	The Town of Bluffton's Discussion with Tree Wiseman and a Property Management Representative	Supervisory Staff, Administrators, Stormwater Managers, Commercial	This meeting's goal was to answer questions about BMP inspections, tree removal along stormwater ponds and outfall structures, maintenance, and annual reporting to ensure they are compliant with MS4 and Town UDO requirements.	Completed	Town of Bluffton staff met with HOA leaders and answered their questions.	8/13/18	2
POC #1	The Town of Bluffton's Discussion with Sauls Funeral Home	Supervisory Staff, Administrators, Stormwater Managers, Commercial	This meeting's goal was to answer questions about BMP inspections, maintenance, and annual reporting to ensure they are compliant with MS4 and Town UDO requirements.	Completed	Town of Bluffton staff met with HOA leaders and answered their questions.	9/19/18	2

POC #1, POC #3	Beaufort County's Discussion with Saul's Funeral Home	Supervisory Staff, Administrators, Stormwater Managers, Commercial	This meeting's goal was to educate Saul's Funeral Home on the importance of ditch maintenance and to give a better understanding of stormwater drainage from adjacent properties.	Completed	This discussion led to better understanding of how stormwater drains and ditch maintenance.	9/20/18	4
POC #1	The Town of Bluffton's Discussion with Bluffton Park HOA	Residents	This meeting's goal was to answer questions the Bluffton Park HOA had about BMP inspections, maintenance and annual reporting to ensure they are compliant with MS4 and Town UDO requirements.	Completed	The resolution of the discussion with HOA representatives was that Bluffton Park was informed that they are responsible for their stormwater infrastructure and its maintenance and their questions on inspections and reporting were answered.	9/4/18	2
POC #1	The Town of Bluffton's Discussion with Tabby Shell HOA	Residents	This meeting's goal was to answer questions the Bluffton Park HOA had about BMP inspections, maintenance and annual reporting to ensure they are compliant with MS4 and Town UDO requirements.	Completed	This discussion between town staff and HOA representatives took place to provide detailed answers to questions about the BMP Inspection program.	9/7/18	2
POC #1	The Town of Bluffton's Discussion with the Tabby Roads HOA	Residents	This meeting's goal was to answer questions the Bluffton Park HOA had about BMP inspections, maintenance and annual reporting to ensure they are compliant with MS4 and Town UDO requirements.	Completed	This discussion took place between town staff and a new HOA representative to inform her about what had previously been discussed with other representatives.	12/7/18	1

POC #6, POC #1	Home Builders Association Roundtable Lunch	Residents, Technical Staff, Engineers, Developers, Field Staff, Maintenance, Facilities, Supervisory Staff, Administrators, Contractors	The goal was to educate the Home Builder's Association on construction standard across the Lowcountry with the different jurisdictional offices.	Completed	Beaufort County and other municipalities presented on the permitting processes and standards in their area.	7/11/18	100
POC #1	Beaufort County Stormwater Pond Maintenance Consultation	Other	The goal was to determine a pond issue, educate the residents on proper pond maintenance, and brainstorm a solution to the issue.	Completed	The pond owner and the County found resolution. Beaufort County will consult on maintenance with a third party doing the work.	2/21/18	4
POC #4, GSA	Beaufort County Stormwater Pet Waste Brochure	Residents	These brochures inform and persuade pet owners to pick up their pets' waste. Their effectiveness will be determined by the number of brochures requested.	Completed	The Friends of Hunting Island requested 75 brochures for distribution at pet waste stations in Hunting Island State Park. The brochures were delivered on 4/23/18.	4/23/18	75
POC #4, Toxins, POC #3, GSA, POC #2, OTHER	S.C. SeaGrant's Coastal Futures Forum	Residents, Technical Staff, Engineers, Developers, Field Staff, Maintenance, Facilities, Contractors, Commercial, Pet Owners, Other	The Coastal Futures forum uses deliberative discussion to bridge the sometimes-opposing opinions on environmental issues facing coastal South Carolinians. Analysis of these surveys will be used to provide decision-makers with an improved understanding of their constituents' priorities and needs.	Completed	The 35 participants in this forum had the opportunity to listen to presentations by experts on coastal issues and, in small groups, discuss how each issue could be addressed or resolved. Towards the end of the forum, each of the small groups reported on their discussions. Topic covered in this forum included climate change, how activity on land affects water quality, toxic environments, and the previous' effect on people.	5/17/18	35

GSA, OTHER	Beaufort County Stormwater's Presentation at the Whale Branch School's Career Day	Youth	This event sought to teach groups of kids about stormwater and how the County manages it with the help of our Infrastructure team. The program's success will be determined by the number of children reached.	Completed	On 5/18/18, Whale Branch School hosted their annual career day. Beaufort County Stormwater presented to the student body how stormwater runoff can negatively impact water quality. They also presented how the County seeks to mitigate this with the help of the Infrastructure team and talked about possible local employment with said team.	5/18/18	248
POC #6, POC #1, GSA, POC #2	Local MS4 Meeting	Field Staff, Maintenance, Facilities, Supervisory Staff, Administrators, Stormwater Managers	This meeting provided training on inspection programs, sediment and erosion control methods, and field visits to construction sites with municipal staff. Its success will be measured by MCM 6 compliance and the number of staff trained.	Completed	The Town of Bluffton and the Town of Hilton Head Island provided this hands-on training.	6/1/18	3
Petroleum Products, POC #5. POC #1, GSA, POC #2	Beaufort County Stormwater's Presentation to Lowcountry Real Estate	Commercial	This presentation sought to inform real estate agents in Beaufort County about the construction permitting process, the MS4 program, and construction and post construction water quality and quantity management.	Completed	Beaufort County gave this training to the Lowcountry Real Estate agency on 6/27/18.	6/27/18	36
Petroleum Products, POC #1, GSA, POC #2, OTHER	Local MS4 Meeting	Field Staff, Maintenance, Facilities, Supervisory Staff, Administrators, Stormwater Managers	This meeting's goal was to increase regional cooperation and provide training on sediment and erosion control at residential sites.	Completed	The Town of Bluffton and the Town of Hilton Head Island provided training on this topic by highlighting their own programs.	6/29/18	3

POC #6, GSA, POC #2, OTHER	Beaufort County Stormwater's Meeting with Codes Enforcement	Field Staff, Maintenance, Facilities, Supervisory Staff, Administrators, Stormwater Managers	This meeting's goal was to educate Codes Enforcement on County Stormwater ordinances to increase compliance.	Completed	Beaufort County Stormwater presented the ordinances to the Director of Codes Enforcement. They then created an action plan.	7/16/18	2
POC #6, POC #1, GSA, POC #2, OTHER	MS4 Compliance (SESWA Webinar)	Field Staff, Maintenance, Facilities, Supervisory Staff, Administrators, Stormwater Managers, Stormwater Managers	This webinar focused on explaining the MS4 permit program from the EPA and how two different MS4's from GA and NC handled their permits. The goal of showing this webinar was to inform Beaufort County Stormwater staff of their role and to provide MCM 6 compliance.	Completed	Beaufort County held this training on 7/19/18 at Beaufort County Public Works and five County staff members attended.	7/19/18	5
POC #4, POC #1, GSA, POC #2, OTHER	Beaufort County's Okatie West 319 Grant Field Day	Elected/Appointed Officials, Field Staff, Maintenance, Facilities, Supervisory Staff, Administrators, Stormwater Managers, Contractors	This event's goal was to teach stormwater professionals, contractors, and stakeholders about the current designs/ techniques in detention as well as bacteria removal. The events success was measured by attendance.	Completed	The Okatie West Regional Stormwater Detention Project. was a Clean Water Act Section 319 grant project. As part of the 319 grant, Beaufort County held a field day for local professionals and stakeholders to see the site and learn from its design.	7/27/18	11
POC #1	Beaufort County Stormwater Meeting with Oldfield	Stormwater Pond Managers	This meeting sought to educate stormwater pond manager on the importance of maintenance of community ponds.	Completed	Beaufort County Stormwater assisted the pond owner in understanding their ponds' issue and how it could be resolved.	8/22/18	2

POC #6, POC #2	Beaufort County Stormwater Inspectors Construction Erosion Prevention and Sediment Control	Field Staff, Maintenance, Facilities, Contractors	This program's goal is to educate contractors on the importance of erosion and sediment prevention and control, as they relate to construction activities. The success of this action will be measured by a reduction in violations.	Ongoing	During Beaufort County Stormwater's inspection of construction sites, the inspectors educate contractors on how to fix any sediment and erosion prevention and control issues on site. With this being the first year with a full inspection staff, it is unknown of the program is successful yet.		416
POC #1	Beaufort County Stormwater Meeting with Belfair	Stormwater Pond Managers	This meeting sought to educate stormwater pond manager on the importance of maintenance of community ponds.	Completed	Beaufort County Stormwater assisted the pond owner in understanding their ponds' issue and how it could be resolved.	10/16/18	2
GSA, POC #2, OTHER	Beaufort County Stormwater's Presentation on Stormwater for SoLoCo	Elected/Appointed Officials, Technical Staff, Engineers, Developers, Field Staff, Maintenance, Facilities, Supervisory Staff, Administrators, Stormwater Managers	This regional meeting's goal was to discuss the importance of a Stormwater Standard that goes beyond jurisdictional boundaries, as water is unaware of such barriers.	Completed	Beaufort County presented to the regionalization board on the importance of bringing communities to combat the issue of stormwater, as water knows no boundaries.	12/5/17	15
GSA, POC #2, OTHER	SoLoCo Natural Resources Committee	Elected/Appointed Officials, Technical Staff, Engineers, Developers, Field Staff, Maintenance, Facilities, Supervisory Staff, Administrators, Stormwater Managers	This regional meeting's goal was to discuss the importance of a Stormwater Standard that goes beyond jurisdictional boundaries, as water is unaware of such barriers.	Completed	Beaufort County presented to the regionalization board on the importance of bringing communities to combat the issue of stormwater, as water knows no boundaries.	4/25/18	15

POC #1, GSA	Presented the "Drone use for Stormwater Programs " lecture at the 18th Annual Southeast Stormwater Association Conference in Hilton Head, SC	Technical Staff, Engineers, Developers, Supervisory Staff, Administrators, Stormwater Managers, Contractors, Commercial	This presentation's goal was to illustrate how adding drone technology to the workflow will allow impervious surface area to be automatically extracted and calculated as projects are completed, ultimately increasing productivity and efficiency while minimizing loss of revenue	Completed	Beaufort County Stormwater presented this at the 18th Annual SESWA Conference.	10/3/18	60
POC #1, GSA, IDDE	Presented the "BC Connect App, an Educational Tool on Stormwater Response Issues and Requests " lecture at the 18th Annual Southeast Stormwater Association Conference in Hilton Head, SC	Technical Staff, Engineers, Developers, Supervisory Staff, Administrators, Stormwater Managers, Contractors, Commercial	This session explored ways to communicate and engage the public. Case studies highlighting innovative technologies and successful public/private partnerships targeting education and promoting good behavior were reviewed	Completed	Beaufort County Stormwater presented this at the 18th Annual SESWA Conference.	10/3/18	30
GSA, OTHER	Beaufort County Stormwater's Presentation at St. Helena Elementary School's Career Day	Youth	This event's goal was to teach groups of kids about stormwater and how the County manages it with the help of our Infrastructure team. The program's success will be determined by the number of children reached.	Completed	On 4/27/18, St. Helena Elementary School hosted their annual career day. Beaufort County Stormwater presented to the student body how stormwater runoff can negatively impact water quality. They also presented how the County seeks to mitigate this with the help of the Infrastructure team and talked about possible local employment with said team.	4/27/18	120

POC #3, GSA	BJSWA Canal Paddle Trip led by Savannah Riverkeeper	Residents	The goal of the paddle was to provide hands-on education about water quality and the saltmarsh ecosystem in the Savannah River watershed.	Completed	On 12/19/18, the Savannah Riverkeeper led six residents on a guided paddle through the BJWSA canal and surrounding waterways.	12/19/18	6
POC #3, GSA	Sun City Kayak Club Presentation by the Savannah Riverkeeper	Residents	The goal of this presentation was to provide information on water quality and the saltmarsh ecosystem in the Savannah River watershed.	Completed	On 9/30/18, the Savannah Riverkeeper presented to the Sun City Kayak Club. 32 people attended this presentation.	9/30/18	32
POC #3	Coastal Conservation League Plastics Presentation for the Port Royal Town Council	Elected/Appointed Officials, Commercial	The goal was to provide background information and support for the upcoming county-wide single-use plastic bag ban. Its success will be determined by the number of attendees.	Completed	On 1/10/18, the Coastal Conservation League gave this presentation to 12 people at the Port Royal Town Hall.	01/10/18	12
POC #6, GSA	Stormwater Tour of Mossy Oaks	Residents	The tour was meant to drive interest in the work of the Mossy Oaks Task Force and to foster citizen engagement as the force worked towards developing a plan to address these issues.	Completed	On 1/24/18, the Coastal Conservation League led two residents on an in-depth tour of the neighborhood. They discussed how stormwater runoff can affect neighborhood issues such as water quality and flooding.	01/24/18	2
POC #3	Plastic Bag Ban Meeting with Municipal Staff	Elected/Appointed Officials	The goal was to provide background information and support for the upcoming county-wide single-use plastic bag ban. Its success will be determined by the number of attendees.	Completed	On 1/22/18, the Coastal Conservation League met with elected officials in Beaufort City Hall.	01/22/18	4

GSA	Mossy Oaks Stormwater Task Force Meeting	Residents, Stormwater Pond Managers, Commercial, Supervisory Staff, Administrators, Stormwater Managers	The Mossy Oaks Task Force is a partnership between the City of Beaufort, Coastal Conservation League, Town of Port Royal, SCDOT, Beaufort County, and private citizens. Its goal is to drive, with citizen input, a plan to address frequent flooding and drainage areas in the neighborhood.	Completed	This meeting occurred at Beaufort City Hall on 1/26/18. Plans to re-work the neighborhoods drainage system were discussed.	01/26/18	20
GSA	Mossy Oaks Meeting with Elected/Appointed Officials	Residents, Elected/Appointed Officials, Stormwater Pond Managers, Commercial, Supervisory Staff, Administrators, Stormwater Managers, Other		Completed	The Coastal Conservation League met with elected officials to discuss ongoing environmental projects in the area and to provide insight as to their importance.	03/06/18	5
POC #3	State Hearing on Ban on Bag Bans	Elected/Appointed Officials, Other	The goal of this presentation was to provide background information and support for the upcoming county-wide single-use plastic bag ban. Its success will be determined by the number of attendees.	Completed	The Coastal Conservation League attended and participated in this meeting with 20 others in Columbia, SC on 3/22/18.	03/07/18	50
POC #3	Coastal Conservation League Plastics Presentation for Exchange Club	Elected/Appointed Officials, Other	The goal of this presentation was to provide background information and support for the upcoming county-wide single-use plastic bag ban. Its success will be determined by the number of attendees.	Completed	The Coastal Conservation League gave this presentation to 20 people at the Golden Coral on 3/22/18.	03/22/18	20

POC #3	Coastal Conservation League Plastics Presentation for the Port Royal Sound Foundation	Elected/Appointed Officials, Other	The goal of this presentation was to provide background information and support for the upcoming county-wide single-use plastic bag ban. Its success will be determined by the number of attendees.	Completed	The Coastal Conservation League gave this presentation to 20 people at the Port Royal Sound Foundation Maritime Center on 2/8/18.	02/08/18	20
GSA	Mossy Oaks Stormwater Task Force Meeting	Residents, Stormwater Pond Managers, Commercial, Supervisory Staff, Administrators, Stormwater Managers, Other	The Mossy Oaks Task Force is a partnership between the City of Beaufort, Coastal Conservation League, Town of Port Royal, SCDOT, Beaufort County, and private citizens. Its goal is to drive, with citizen input, a plan to address frequent flooding and drainage areas in the neighborhood.	Completed	This meeting occurred at Beaufort City Hall on 4/6/18. Plans to re-work the neighborhoods drainage system were discussed and an action plan was created.	04/06/18	20
GSA	Mossy Oaks Community Development Block Grant Funding Meeting	Residents, Stormwater Pond Managers, Commercial, Supervisory Staff, Administrators, Stormwater Managers, Other	The goal of this meeting was to discuss and secure funding for the Mossy Oaks Task Force projects.	Completed	20 people participated in this meeting at Beaufort City Hall on 4/17/18.	04/17/18	20
OTHER	Coastal Conservation League Meeting with Hilton Head Realtors	Commercial		Completed	The Coastal Conservation League met with 50 local realtors to discuss the impacts of sea level rise, beach erosion, stormwater runoff and other long-term issues.	04/27/18	50

POC #3	Canvassing for the Coastal Conservation League's Skip the Straw Program	Elected/Appointed Officials, Other	Skip the Straw is a program from Ocean Conservancy. Its goal is for restaurants refrain from automatically putting a plastic disposable straw in each beverage, but rather allow customers to request a straw.	Completed	The Coastal Conservation League met with 30 elected officials, business owners, and residents to determine the feasibility of launching this program in Beaufort County.	06/12/18	30
POC #3	Canvassing for the Coastal Conservation League's Skip the Straw Program	Elected/Appointed Officials, Other	Skip the Straw is a program from Ocean Conservancy. Its goal is for restaurants refrain from automatically putting a plastic disposable straw in each beverage, but rather allow customers to request a straw.	Completed	The Coastal Conservation League met with 30 elected officials, business owners, and residents to determine the feasibility of launching this program in Beaufort County.	06/18/18	30
POC #3	Coastal Conservation League Recycling Meeting with Beaufort County	Elected/Appointed Officials		Completed	The Coastal Conservation League met with Beaufort County to discuss expanding recycling opportunities.	11/16/18	5
POC #3	Hilton Head Business Meeting About Plastics	Elected/Appointed Officials, Commercial	The goal of this presentation was to provide background information and support for the upcoming county-wide single-use plastic bag ban. Its success will be determined by the number of attendees.	Completed	The Coastal Conservation League along with the Town of Hilton Head Island held this meeting where 10 local business people attended for more information about the plastic bag ban and support for their business as they transitioned their packaging.	10/18/18	10

POC #3	Port Royal Business Meeting About Plastics	Elected/Appointed Officials, Commercial	The goal of this presentation was to provide background information and support for the upcoming county-wide single-use plastic bag ban. Its success will be determined by the number of attendees.	Completed	The Coastal Conservation League along with the Beaufort Area Chamber of Commerce held this meeting where 10 local business people attended for more information about the plastic bag ban and support for their business as they transitioned their packaging. The meeting was held at the Port Royal Town Hall.	09/28/18	10
POC #3	Beaufort Business Meeting About Plastics	Elected/Appointed Officials, Commercial	The goal of this presentation was to provide background information and support for the upcoming county-wide single-use plastic bag ban. Its success will be determined by the number of attendees.	Completed	The Coastal Conservation League along with the Beaufort Area Chamber of Commerce held this meeting where 10 local business people attended for more information about the plastic bag ban and support for their business as they transitioned their packaging. The meeting was held at Beaufort City Hall.	09/29/18	10
GSA	Mossy Oaks Stormwater Task Force Meeting	Residents, Stormwater Pond Managers, Commercial, Supervisory Staff, Administrators, Stormwater Managers	The Mossy Oaks Task Force is a partnership between the City of Beaufort, Coastal Conservation League, Town of Port Royal, SCDOT, Beaufort County, and private citizens. Its goal is to drive, with citizen input, a plan to address frequent flooding and drainage areas in the neighborhood.	Completed	This meeting occurred at Beaufort City Hall on 10/24/18. Plans to re-work the neighborhoods drainage system were discussed and began to be finalized.	10/24/18	20

GSA, POC #2	Preapplication Review and Comment	Technical Staff, Engineers, Developers, Engineers, Developers, Contractors	The goal of this practice is to include sustainability comments on development proposals prior to formal application. Success will be measured by the number of development applications that show adoption of these methods.	Ongoing	The Town of Hilton Head Island reviewed submitted site plans and commented on them in order to assist developers in making the site plan more sustainable. 35 development applications were reviewed this year and key messages included how to decrease impervious surfaces (to reduce stormwater generation) and natural methods of stormwater filtration.		35
POC #3, POC #2, POC #5	Green Steps Projects	Youth	This environmental education initiative encourages individual schools to take annual steps toward becoming more environmentally responsible.	Completed	The Beaufort County Soil and Water Conservation District provided support and guidance to Whale Branch Elementary School as they tried to become a certified SC Green Steps School. Their projects focused around recycling, composting, rain barrels, and litter removal.	1/8/18 - 4/2/18	300
POC #3	Green Steps Projects	Youth	This environmental education initiative encourages individual schools to take annual steps toward becoming more environmentally responsible.	Completed	The Beaufort County Soil and Water Conservation District provided support and guidance to Port Royal Elementary School as they tried to become a certified SC Green Steps School. Their projects focused around recycling, oyster shell recycling, and litter removal.	1/8/18 - 5/8/18	200

POC #3	Meeting between the Town of Hilton Head Island and the Bluffton Chamber of Commerce	Commercial	The goal of this meeting was to discuss the feasibility of a ban on single-use plastic bags.	Completed	The Town of Hilton Head Island provided insight as to why a plastic bag ban would be beneficial for the environment and community as the Bluffton Chamber of Commerce cited the pros and cons of such a ban for local businesses.	01/18/18	5
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	Presenters discussed wells, septic tanks, and ground water recharge at Beaufort County schools on 2/20/18. This presentation was given by the Beaufort County Soil and Water Conservation District.	2/20/18	54
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	Presenters discussed wells, septic tanks, and ground water recharge at Beaufort County schools on 3/5/18. This presentation was given by the Beaufort County Soil and Water Conservation District.	3/5/18	103
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	Presenters discussed wells, septic tanks, and ground water recharge at Beaufort County schools from 3/26/18 until 3/28/18. This presentation was given by the Beaufort County Soil and Water Conservation District.	3/26/18 - 3/28/18	182

GSA, POC #2	Cypress Wetlands Tour	Youth	The goal of this tour was to emphasize how the constructed wetlands functioned as stormwater catchment area.	Completed	On 4/6/18, the Beaufort Soil and Water Conservation District led 22 students from Port Royal Elementary school on a tour of the constructed wetlands. The tour included plant and animal identification lessons as well as how the wetlands work to alleviate stormwater runoff pollution.	4/6/18	22
POC #4, Toxins, Petroleum Products, POC #6, POC #5, Pesticide, FOG, POC #3, GSA, POC #2	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 4/20/18 to demonstrate how stormwater affects water quality. This presentation was given by the Beaufort County Soil and Water Conservation District	4/20/18	68
POC #4, Toxins, Petroleum Products, POC #6, POC #5, Pesticide, FOG, POC #3, GSA, POC #2	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 4/25/18 to demonstrate how stormwater affects water quality. This presentation was given by the Beaufort County Soil and Water Conservation District	4/25/18	60
POC #4, Toxins, Petroleum Products, POC #6, POC #5, Pesticide, FOG, POC #3, GSA, POC #2	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 5/1/18 to demonstrate how stormwater affects water quality. This presentation was given by the Beaufort County Soil and Water Conservation District	5/1/18	44

POC #4, Toxins, Petroleum Products, POC #6, POC #5, Pesticide, FOG, POC #3, GSA, POC #2	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 5/3/18 to demonstrate how stormwater affects water quality. This presentation was given by the Beaufort County Soil and Water Conservation District	5/3/18	41
POC #4, Toxins, Petroleum Products, POC #6, POC #5, Pesticide, FOG, POC #3, GSA, POC #2	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 5/4/18 to demonstrate how stormwater affects water quality. This presentation was given by the Beaufort County Soil and Water Conservation District	5/4/18	10
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 7/17/18 This presentation was given by the Beaufort County Soil and Water Conservation District.	7/17/18	16
GSA	"Why are Salt Marshes Important?" Trip	Youth	The goal of this trip was to teach school children about the value, functions, and native species in the salt marsh as well as how the saltmarsh is affected by stormwater runoff.	Completed	The Town of Hilton Head Island Staff led a guided field trip to Pinckney Colony.	08/09/18	17

<p>Toxins, POC #6, POC #5, Pesticide, POC #3, GSA, POC #2</p>	<p>Environmental Science Course at USCB;</p>	<p>Higher Education Students</p>	<p>The goal of this course was to stress the environmental impacts of human activities and what can be done to prevent them. Its success was determined by the number of students who passed.</p>	<p>Completed</p>	<p>The Town of Hilton Head Island staff taught this semester-long course.</p>	<p>8/23/18 - 12/7/18</p>	<p>18</p>
<p>POC #3</p>	<p>Marine Debris Display</p>	<p>Youth, General Public</p>		<p>Completed</p>	<p>The Beaufort County Soil and Water Conservation District's display highlighted the negative effect on marine species due to litter and provided a game where participants guessed how long trash takes to decompose. It was displayed at the Port Royal Sound Foundation Maritime Center on 8/25/18.</p>	<p>8/25/18</p>	<p>1000</p>
<p>POC #3</p>	<p>Presentation on Single-Use Plastic Bag Ban (Passed 3 January 2018)</p>	<p>Commercial</p>	<p>The goal of this presentation was to inform the business community on Hilton Head Island about the single-use plastic bag ban.</p>	<p>Completed</p>	<p>This presentation was provided by Town of Hilton Head Island staff (sustainability staff, legal and code enforcement staff) on the requirements of the ordinance. There was also a question-and-answer session for participants.</p>	<p>09/06/18</p>	<p>15</p>
<p>POC #4, GSA, POC #2</p>	<p>Town of Bluffton's May River Watershed Action Plan Implementation & Assessment</p>	<p>Residents</p>	<p>The goal of this event was to present the assessment of the May River Watershed Action Plan. No assessment of this presentation was conducted.</p>	<p>Completed</p>	<p>Key messages included importance of the Town's water quality monitoring efforts to inform policies, programs and projects to improve conditions in the May River and how individual actions may affect water quality.</p>	<p>9/7/18</p>	<p>35</p>

POC #3	Presentation on Plastic Bag Ban	Youth, Teachers	The goal of this program was to educate high schoolers about the plastic bag ban.	Completed	The Town of Hilton Head Island staff gave this presentation to 25 high schoolers. The students learned what the ban was, how it could affect them, and the reason it was created. They were also made aware of the problems with plastic in the environment, including how stormwater can carry plastics to water bodies.	09/07/18	25
GSA, POC #2	Indigo Run Women's Club Presentation	Residents	The goal of this presentation was to inform residents on how to lead sustainable lives, actions taken by the Town toward sustainability, and how each attendant can contribute to efforts such as reducing stormwater runoff and improving water quality.	Completed	This presentation was given by Town of Hilton Head Island staff to 90 club members on 9/10/18	9/10/18	90
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	Presenters discussed wells, septic tanks, and ground water recharge at Beaufort County schools on 9/27/18. This presentation was given by the Beaufort County Soil and Water Conservation District.	9/27/18	84
POC #6, POC #5, GSA	Field Trip to Jarvis Creek Park	Technical Staff, Engineers, Field Staff, Facilities, Supervisory Staff, Administrators, Stormwater Managers, Contractors	The goal of this trip was to discuss how this parks' green infrastructure handles stormwater from an urban watershed.	Completed	The Town of Hilton Head Island staff led a guided tour of Jarvis Park for SESWA Regional Conference attendees.	10/3/18	55

POC #3	Presentation on Single-Use Plastic Bag Ban (Passed 3 January 2018)	Commercial	The goal of this presentation was to inform the business community on Hilton Head Island about the single-use plastic bag ban.	Completed	This presentation was provided by Town of Hilton Head Island staff on the requirements of the ordinance. There was also a question-and-answer session for participants.	10/9/18	4
POC #3	Presentation on Plastics	Residents	The goal of this program was to educate residents on the negative environmental impact of plastics and how the single-use plastic bag ban will help reduce these issues.	Completed	Beaufort County, the Town of Hilton Head Island, the SC Aquarium, and the Coastal Conservation League partnered to provide this presentation at the Hilton Head Library.	10/18/18	50
POC #3	School Litter Cleanup	Youth	The goal is to engage and involve citizens in removing litter from their environment. Its effectiveness will be determined through number of volunteers.	Completed	On 10/25/18, the Beaufort County Soil and Water Conservation District led a litter cleanup at Beaufort Middle School with 39 students.	10/25/18	39
POC #4, Toxins, Petroleum Products, POC #6, POC #5, Pesticide, FOG, POC #3, GSA, POC #2	Enviroscape Model 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 11/2/18 to demonstrate how stormwater affects water quality. This presentation was given by the Beaufort County Soil and Water Conservation District	11/2/18	53
POC #4, Toxins, Petroleum Products, POC #6, POC #5, Pesticide, FOG, POC #3, GSA, POC #2	Enviroscape Model Presentation	Youth	The Enviroscape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution.	Completed	It was presented to Beaufort County school children on 11/19/18 to demonstrate how stormwater affects water quality. This presentation was given by the Beaufort County Soil and Water Conservation District	11/19/18	20

POC #3	Recycling Presentation	Youth	The goal of this presentation was to focus on the importance of recycling and how to do so.	Completed	This presentation was given on 11/20/18 to 20 students at Beaufort Middle School by the Beaufort County Soil and Water Conservation District.	11/20/18	20
GSA, POC #2, POC #3, POC #5, POC #4	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 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.		2330
GSA, POC #2, POC #3, POC #5, POC #4	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)		1585

GSA, POC #2, POC #3, POC #5, POC #4	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	20971
GSA, POC #2, POC #3, POC #5, POC #4	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.	334
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 provide educational services such as: providing one-on-one service to the non-commercial horticultural clientele in the county, promoting 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.	237139

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.		2476
POC #2, GSA	DNR King Tides Education Program	Residents	The goal of this program was to inform residents on the effects of King Tides on local flooding issues.	Completed	The City of Beaufort partnered with SC DNR to bring a hands-on workshop on the causes, effects, and recent changes to the King Tide cycle.	10/12/18	12
POC #1, POC #6, GSA	Certified Erosion Prevention and Sediment Control Inspector (CEPSCI)	Technical Staff, Engineers, Developers, Field Staff, Maintenance, Facilities, Contractors	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			763

POC #1, GSA, POC #2	Certified Stormwater Plan Reviewer (CSPR)	Technical Staff, Engineers, Developers, Field Staff, Maintenance, Facilities, Contractors	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			80
POC #3	Adopt-A-Highway Program	Residents	The Adopt-A- Highway program's 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, and pounds of litter removed.	Ongoing	There were 3264 volunteers who were part of 100 active volunteer groups who picked up 88,815 lbs. of trash.		3264
POC #1, POC #5, BAD, POC #6, GSA, POC #2	Clemson Extension's Master Rain Gardener	Contractors, Technical Staff, Engineers, Developers, Commercial, Residents,	The Master Rain Gardener (MRG) program will provide design standards and the knowledge-based skill set necessary to install rain gardens and rainwater harvesting systems on a residential scale.	Ongoing	The Master Rain Gardener program is a hybrid, multi- week curriculum allowing for self- paced online learning modules, hands-on field experience, and a two-track option to meet the needs of diverse audiences. Master Rain Gardener has been offered twice in 2018 and had 83 participants from 40 different cities and town in SC.		83

<p>POC #5, POC #6, POC #4, GSA</p>	<p>Clemson Extensions' Carolina Yards Program</p>	<p>Residents</p>	<p>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. The program's success will be measured in newly certified yards.</p>	<p>Ongoing</p>	<p>There is a total of 424 current certified Carolina Yards across the state, but this year 93 new yards were added to the total. Seven of these new yards are in Beaufort County, including the Carolina Yard of the Year.</p>		<p>93</p>
<p>POC #5, POC #6, POC #4, GSA</p>	<p>Clemson Extensions' Carolina Yards Course</p>	<p>Residents</p>	<p>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. Its success will be determined through a survey.</p>	<p>Completed</p>	<p>This session of the course had 35 participants. 25 participants certified their yards at the end of the course and 22 filled out the survey. Of the respondents, 100% reported knowledge gain. As a result of the course, participants report plans to: soil test, mulch, begin composting, harvest rainwater, install a rain garden, provide for wildlife, and utilize native plants. These actions allow citizens to achieve their desired landscape, have increased plant success, and save money while actively conserving and protecting natural resources and supporting wildlife.</p>	<p>4/2/18 - 5/20/18</p>	<p>35</p>

POC #5, POC #6, POC #4, GSA	Clemson Extensions' Carolina Yards Website	Residents	The website's goal is to provide information on how to use simple and effective principles and actions to help guide residents towards a low maintenance and positive environmental impact yard. Its use will be tracked through site visits.	Ongoing			32,562
POC #5, POC #6, POC #4, GSA	Clemson Extensions' Carolina Yards Facebook	Residents	The goal of this page is to provide a forum for public participation, to increase awareness of effective actions to help guide residents towards a low maintenance and environmentally friendly yard. Its effectiveness will be tracked through "Likes".	Ongoing			626
CM	Clemson Extension's 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	The survey results will be in by March 2019.		
POC #4	Clemson Extension's Carolina Clear Pet Waste Mass Media Campaign (Billboards)	Pet Owners	LSP contributed to the creation of the "Be Prepared. Always Bring a Bag" mass media campaign. Billboards were displayed in Beaufort County. Their success will be determined by weekly viewership.	Ongoing	Two billboards were hung in November and will remain up until the next media campaign.		346336

POC #4	Clemson Extension's Carolina Clear Pet Waste Mass Media Campaign (TV Commercial)	Pet Owners	The Lowcountry Stormwater Partners contributed to the creation of Clemson Extension's Carolina Clear's 2017 "Be a Scooper Hero" mass media campaign. Commercials were in Beaufort County to bring awareness to the issue of pet waste. Their success will be determined by viewership	Ongoing	These impressions were delivered to adults between 25-54.	10/18/18, 11/18/18	110391
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Clemson Extension's 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			22367
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Clemson Extension's 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			47879
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Clemson Extension's 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.		9900

POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	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			631
POC #1, POC #2, POC #5, POC #4, POC #6, GSA	Clemson's Carolina Rain Garden Initiative Website	General Public	This website's goal is to educate South Carolinians about the use, design, and installation of rain gardens. Its use will be tracked through views.	Ongoing			2006
POC #1, POC #2, POC #5, POC #4, POC #6, GSA	Clemson's SC Stormwater Pond Website	General Public	This website's goal is to provide a clearing house of information regarding stormwater pond management, maintenance, and inspection. Its use will be tracked through views.	Ongoing			43001
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Clemson Extension's Water Team 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			3869
POC #1, POC #4, POC #5, POC #6, GSA	Clemson's Master Pond Manager Course	Pond Managers	Participants in the course engage in self-paced lectures, discussion, and quizzes in the online classroom. Course success is tracked through participation and certification.	Ongoing	Participants cover topics such as pond design, inspection, and maintenance as well as others. 72 people took the course (which was offered twice) and 13 certified as Master Pond Managers.		72

POC #1, GSA	Post Construction Best Management Practice Inspector Course	Field Staff, Facilities, Maintenance, Technical Staff, Engineers, Developers	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, and more. Its success will be measured in number of participants.	Ongoing	The course was offered in the spring with 24 participants and in the fall with 29 participants.		53
POC #5, POC #6, GSA	Making It Grow!	Residents	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 2017 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 #2, POC #5, GSA	Master Naturalist Program	Residents, Teachers, Field Staff, Technical Staff, Facilities, Maintenance	The SC Master Naturalist Program aims to create a statewide corps of volunteers providing education, outreach, and service dedicated to the beneficial management of natural resources.	Ongoing	The Lowcountry Institute holds the 12 session Master Naturalist courses four times a year. After receiving training, Master Naturalists may participate in many different types of volunteer activities.		96

POC #2, POC #5, GSA	Master Naturalist Advanced Trainings	Residents, Teachers, Field Staff. Technical Staff, Facilities, Maintenance	These trainings are offered on a variety of environmental topics for people who have already taken the Master Naturalist Course. The goal of these programs is to keep alumni engaged and learning the most updated information. Success is determined by the number of participants.	Ongoing		2/9/18, 5/16/18, 5/18/18, 6/19/18, 7/11/18, 7/25/18, 10/9/18, 10/13/18, 10/24/18, 10/25/18, 11/13/18, 12/5/18	323
POC #3, POC #4, POC #5, POC #2, GSA	Kids in Kayaks Program	Youth	The goal of the Kids in Kayaks program is to bring local youth outside and to have them participate in experiential learning about their local ecosystems and natural resources.	Completed	This program was offered 25 times by the Outside Foundation this year to schools in the Town of Bluffton and the Town of Hilton Head Island.	4/17/18, 4/18/18, 4/20/18, 4/24/18, 4/25/18, 4/26/18, 4/27/18, 4/30/18, 5/1/18, 5/3/18, 5/4/18, 6/14/18, 6/19/18, 10/12/18, 10/15/18, 10/16/18, 10/19/18, 10/22/18, 10/23/18, 10/24/18, 10/28/18, 10/29/18, 10/30/18, 10/31/18, 11/2/18	882
POC #3, POC #4, POC #5, POC #2, GSA	Boys and Girls Club Program	Youth	The goal of this program is to bring local youth outside and to have them participate in experiential learning about their local ecosystems and natural resources.	Completed	The Outside Foundation organized this program five times.	4/10/18, 5/24/18, 10/4/18, 10/18/18, 11/1/18	67

POC #3	The Outside Foundation Cleanups	General Public	The goal of these events is to engage and involve citizens in removing litter from their environment. Its effectiveness will be determined through number of volunteers and pounds of litter removed.	Completed	The Outside Foundation hosted seven cleanups that removed 900 pounds of trash from local watersheds.	3/25/18, 4/21/18, 6/2/18, 6/16/18, 6/23/18, 7/7/18, 11/18/18	150
POC #6, POC #4, POC #5, POC #2, GSA	ORRBI Oyster Shell Bagging and Reef Restoration	General Public	The goal of this program is to educate the public about the beauty, utility, and health of Hilton Head Island's saltmarsh ecosystem.	Ongoing	The Outside Foundation hosted these events five times and restored one reef on Paige Island.	5/17/18, 6/30/18, 7/27/18, 10/29/18, 11/5/18	126
GSA, CM	Lowcountry Stormwater Partners Consortium Meeting	General Public	These meetings are for partner updates and to address consortium business such as workshops, current events, etc.	Completed		2/20/18	13
GSA, CM	Lowcountry Stormwater Partners Consortium Meeting	General Public	These meetings are for partner updates and to address consortium business such as workshops, current events, etc.	Completed		5/15/18	13
GSA, CM	Lowcountry Stormwater Partners Consortium Meeting	General Public	These meetings are for partner updates and to address consortium business such as workshops, current events, etc.	Completed		8/21/18	14
GSA, CM	Lowcountry Stormwater Partners Consortium Meeting	General Public	These meetings are for partner updates and to address consortium business such as workshops, current events, etc.	Completed		11/27/18	10

POC #1, POC #5, POC #2, GSA	Pond Maintenance Document Created for Rose Hill Plantation Board	Pond Managers, Residents	The goal of this document was to educate the Rose Hill board about stormwater pond function, design, maintenance, and common issues.	Completed		3/20/18	N/A
POC #1, POC #5, POC #2, GSA	Pond Consultation with Harbor Island	Pond Managers, Residents	The goal of these consultations is to help pond owners to determine issues with their stormwater ponds and to educate them on proper pond maintenance.	Completed	Assisted with algae identification and sample processing through Clemson's Ag Service Lab. Also recommended shoreline buffers as an additional method of reducing nutrient pollution. The question of dam safety was brought up and passed along to an engineer.	3/30/18	3
CM, GSA	Presentation of the 2017 Lowcountry Stormwater Partners Annual Report to the Stormwater Utility Board	Elected/Appointed Officials	This presentation detailed the 2016-2018 Lowcountry Stormwater Partners Strategic Regional Stormwater Outreach plan, the 2017 Lowcountry Stormwater Partners Annual Report, and current activities within the consortium	Completed		3/14/18	16
GSA	2018 Hilton Head Island - Bluffton Homebuilders Association Show Presentation	Residents	The goal of this presentation was to cover the basics of stormwater as well as resources and trainings in sustainable landscaping offered by Clemson Extension.	Completed		3/16/18	77

GSA	2018 Hilton Head Island - Bluffton Homebuilders Association Show Brochures	Residents	Brochures on stormwater provided to educate homeowners on how to make their home the solution to stormwater pollution	Completed	These brochures were part of the Town of Hilton Head Island display.	3/16/18 - 3/18/18	300
POC #2, POC #3, 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	Presented to the Beaufort County Senior Leadership program on Environment Day 2.	4/4/18	22
POC #2, POC #5, GSA	Master Gardener Presentation	Residents	The goal of this presentation was to describe how BMPs work, provide examples of residential BMP, and to discuss the design, installation, and maintenance of rain gardens in detail.	Completed	This presentation was given to a Master Gardener class as part of a full day of guest-lecturers. The topic of the day was sustainable landscaping.	4/3/18	27
POC #4, POC #5, Pesticide, Petroleum Products, GSA	Touch a Truck	General Public	This presentation is aimed at children to get a feel for what the County does with all of our heavy machinery and infrastructure as it relates to Stormwater. Carolina Clear also provided enviroscape presentations for the duration of the event.	Completed	This event was hosted by the Tanger outlets and tabled by Carolina Clear and Beaufort County.	4/7/18	688

GSA	Soft Shell Crab Fest	General Public		Completed	The Lowcountry Stormwater Partners, Beaufort County Soil and Water Conservation District, Coastal Conservation League, Port Royal Sound Foundation, and Lowcountry Master Gardeners' all had educational displays at this event.	4/21/18	500
POC #3, GSA	Earth Day at the Port Royal Farmer's Market	General Public	This event's goal was to introduce residents to environmental organizations in Beaufort County and their work	Completed	The Beaufort County Soil and Water Conservation District, Coastal Conservation League, and Lowcountry Master Gardeners' all had educational displays at this event.	4/21/18	500
POC #1, POC #2, POC #4, POC #5, GSA	"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	Completed	This presentation was given on Spring Island. All respondents reported knowledge gain.	4/25/18	13
POC #1, POC #5, POC #2, GSA	Pond Consultation with Hampton Lakes	Pond Managers, Residents	The goal of these consultations is to help pond owners to determine issues with their stormwater ponds and to educate them on proper pond maintenance	Completed	Assisted with algae identification and sample processing through Clemson's Ag Service Lab. Also recommended shoreline buffers as an additional method of reducing nutrient pollution.	5/25/18	1

POC #2, POC #5, POC #4, POC #6, GSA	"Healthy Ponds, Healthy Communities" Workshop	Residents	This workshop's goal was to explain how stormwater ponds function, how to maintain them, and common issues they experience.	Completed	This workshop was given at the Oldfield community in partnership with their staff. The workshop was two hours long and consisted of a PowerPoint presentation and a guided tour of the ponds.	6/20/18	17
POC #2, GSA, POC #4, POC #5	"The Importance of Buffers" Training	Field Staff, Maintenance, Facilities	This training focused upon the importance of the saltmarsh, stormwater basics, and how buffers can protect the saltmarsh from stormwater runoff.	Completed	The LSP partnered with Beaufort County Horticulture Agent, Laura Lee Rose, to provide this information. The workshop was three hours long. The first hour and a half consisted of the LSP giving the "Stormwater and the Saltmarsh" presentation as well as a hands-on enviroscape demonstration. The second hour and a half consisted of Laura Lee Rose giving a presentation on native plants as well as a guided tour of a local buffer area.	6/21/18	14
GSA	Lowcountry Stormwater Partners Partner Facebook Pages	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			92963

<p>POC #1, POC #2, POC #4, POC #5, POC #6, GSA</p>	<p>Providing HOA Stormwater Pond Binders</p>	<p>Residents</p>	<p>These binders serve to help pond owners maintain their stormwater ponds by providing information and materials pertaining to stormwater pond design, function, inspection, and maintenance.</p>	<p>Ongoing</p>	<p>These binders are available in hard copy at the Clemson Extension Office and online at the Clemson Stormwater Pond website.</p>		
<p>POC #6, GSA</p>	<p>Silt Fence and Beyond: Erosion and Sediment Control Best Practices</p>		<p>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!</p>	<p>In Planning</p>	<p>Speakers were unavailable in 2018 due to conflicting schedules.</p>		
<p>POC #4, POC #5, GSA</p>	<p>Fats, Oils, and Grease Disposal Education Materials</p>	<p>General Public</p>	<p>Distribute educational materials relating to FOG to education partners and stakeholders. Their effectiveness will be determined through the amount distributed.</p>	<p>Ongoing</p>	<p>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.</p>		

POC #4	Septic System Awareness Campaign	Residents	The goal of this campaign will be to bring encourage homeowners to perform regular maintenance on their septic systems.	In Planning	2018 was spent gathering data and researching potential programs. A committee is scheduled to meet in early 2019 to begin planning for this campaign.		
POC #4	Pet waste Station Installation	Pet Owners	Install one pet waste station per year.	Cancelled	This program will be rolled into the LSP BMP Giveaway program, set to launch in 2019.		
POC #3	Beach Sweep	Residents	The goal 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	Cancelled due to hurricane.	9/15/18	
CM, GSA	Lowcountry Stormwater Partners New Partner Recruitment	General Public		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.		2
CM, GSA	Lowcountry Stormwater Partners 2017 Annual Report	General Public		Completed	The plan was written, submitted to DHEC, and made accessible to the public.	2/1/18	
POC #2, POC #5, POC #6, GSA	Port Royal Elementary School Rain Garden	Youth	As part of the Green Steps Schools program, the LSP will help the school design and install a demonstration rain garden	Cancelled	Port Royal Elementary decided not to pursue a rain garden project due to staff turnover.		

POC #2, POC #4, GSA	Lowcountry Stormwater Partners BMP Giveaway Program (formerly Community Grants)	Residents, Commercial	This application-based program will provide stormwater BMPs (rain barrels, pet waste stations, and educational signage) for highly visible private properties.	In Planning	The program went through serious restructuring last year due to the failure of similar programs in the state. Planned to launch in summer 2019		
POC #4	Distribution of Geese Signage	General Public		Ongoing			
POC #2, POC #4, POC #5, POC #6, GSA	Buffer Planting Designs	Pond Managers, Residents	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.	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.		
POC #1, 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.	Ongoing			

POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA, FOG	Stormwater Educational Displays	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.		
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA, FOG	Educational Stormwater Display at the Port Royal Farmer's Market	General 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.		
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA, FOG	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 total members on the listserv.	Ongoing	This listserv was changed from a monthly publication to an every-other month publication in order to increase engagement. It was published six times in 2018.		94

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.		
GSA, CM	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.	Ongoing	The Lowcountry Stormwater Partners is worked with Identity Links to order 150 branded rain gauges, 1000 branded pens, 1000 branded fish-shaped sticky notes, and 250 insulated reusable bags. and other materials.		1000
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.	Ongoing	There are 36 factsheets available		
POC #3, POC #5, GSA	Yard Waste Rack Card (replaced stormwater factsheet)	General Public	This information card covered information about how storm drains connect to local waterways, how stormwater runoff can negatively impact water quality, and how yard debris can clog storm drains which can lead to flooding and pollution.	Ongoing			

POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Neighbors for Clean Water Program	General Public	This program will help residents reduce their stormwater footprint through residential BMP trainings.	Cancelled	The program was workshopped through several NOAA trainings and it was determined that if would perform poorly if conducted.		
GSA, POC #2, POC #4, POC #5	Enviroscape Presentation	Residents	The Enviroscape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution.	Completed	The Lowcountry Stormwater Partners provided this demonstration as part of the Port Royal Sound Foundation's Fourth Birthday Celebration.	11/17/18	400
GSA, POC #2, POC #5	Abridged Cultivating a Carolina Yard Workshop	Residents	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 effective gardening methods.	Completed	This workshop was given to Hampton Lake residents. The workshop is normally six hours, but the workshop was reduced to 90 minutes per the community's request. This was done by focusing on only three of the twelve guiding principles.	12/14/18	28

GSA	That's MY Truck Coloring Contest	Youth	<p>This coloring contest was held for K- 5 students across Beaufort County. Students learned that only rain should go down the storm drain by coloring pages of vacuum trucks and street sweepers. The three grand-prize winners of the contest won the right to name Beaufort County's street sweeper, the Town of Bluffton's street sweeper, or Beaufort County's vacuum truck, an art kit, their art printed on the truck, and a visit from the trucks to their school. Its success was determined through the amount of entries.</p>	Completed	427 students from all five municipalities participated.	11/12/18 - 11/28/18	472
GSA, POC #1, POC #2, POC #5, POC #4	Floating Wetlands Workshop	Residents	<p>The goal of this workshop was to inform residents about stormwater runoff's threat to the May River and how floating wetlands can help address this. The workshop also sought to educate homeowners on what floating wetlands are, how they function, and how to maintain them.</p>	Completed	<p>This workshop was a joint effort between the Town of Bluffton and Clemson Extension to help inform the residents of New Riverside about the free-floating wetlands they received from the Town pf Bluffton's 319 grant. The wetlands will be installed during the spring of 2019.</p>	11/16/18	32

POC #2, GSA	Mossy Oaks Block Party	Residents	The Mossy Oaks Block Party was held so that residents of the flood prone neighborhood could learn why their neighborhood was prone to flooding and methods (such as rain barrels, rain gardens, and buffers) that could alleviate some of it.	Completed		11/8/18	7
GSA, POC #2, POC #5, POC #4, Pesticide, POC #6	Cultivating a Carolina Yards Workshop	Residents	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 six-hour workshop was given at the Hilton Head Island Public Service District. There were 21 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.	11/7/18	21
POC #2, POC #5, POC #6, GSA	Rain Garden Lunch and Learn	Field Staff, Maintenance, Facilities, Contractors, Commercial, Technical Staff, Engineers, Developers	This workshop was meant to assist professionals with rain garden design, installation, and maintenance. Its success will be determined by evaluations.	Completed	This workshop included a small lecture from Beaufort County MS4 coordinator, a PowerPoint from the local water resources agent, and a hand-out package that included the Clemson Extension 2016 Guide to Rain Gardens. 17 participants handed in evaluations and 100% reported knowledge gain and that the program met their needs.	10/15/18	22

POC #4, Toxins, Petroleum Products, POC #6, POC #5, Pesticide, FOG, POC #3, GSA, POC #2	Enviroscape Presentation	Youth, Residents	The Enviroscape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution.	Completed	The Lowcountry Stormwater Partners provided this demonstration as part of the City of Beaufort's Shrimp Fest.	10/6/18	200
POC #3, GSA	Enviroscape Presentation	Residents	The Enviroscape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution.	Completed	The Lowcountry Stormwater Partners provided this demonstration as part of the Outside Foundation's Keep Broad Creek Clean Festival.	8/16/18	250
GSA, POC #1, POC #5, POC #2	Indigo Run Pond Consultation	Pond Managers, Residents	The goal of these consultations is to help pond owners to determine issues with their stormwater ponds and to educate them on proper pond maintenance	Completed	Assisted with algae identification and sample processing through Clemson's Ag Service Lab. Also recommended shoreline buffers, floating wetlands, and homeowner fertilizer education as an additional method of reducing nutrient pollution.	8/8/18	4
POC #2, POC #3, 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	Presented to the local Green Drinks chapter at their August meeting.	8/7/18	50

POC #2, POC #5, POC #6, GSA	Rain Garden Lunch and Learn	Field Staff, Maintenance, Facilities, Contractors, Commercial, Technical Staff, Engineers, Developers	This workshop was meant to assist professionals with rain garden design, installation, and maintenance. Its success will be determined by evaluations.	Completed	This workshop included a small lecture from Beaufort County MS4 coordinator, a PowerPoint from the local water resources agent, and a hand-out package that included the Clemson Extension 2016 Guide to Rain Gardens. 17 participants handed in evaluations and 100% reported knowledge gain and 94% reported that the program met their needs.	7/26/18	21	
GSA	Touch a Truck -Port Royal	Youth, Residents	This presentation is aimed at children to get a feel for what the County does with all of our heavy machinery and infrastructure as it relates to Stormwater.	Completed	This event was hosted by the Town of Port Royal and tabled by Beaufort County.	11/2/18	200	
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. 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.			
Total Number of Individuals Impacted								1,167,533

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 Lowcountry Stormwater Partners successfully implemented MCM#1 in the Hilton Head Urbanized Area for several reasons. The first of which is meeting the timeline for focusing on POC #4 and POC #5, as well as POC #2 and POC #3. Last year, a steering committee created a timeline for focusing on the different POCs. They decided that 2017 would focus on POC #1 and POC #6, 2018 would focus on POC #4 and POC #5, and that POC #3 and POC #2 would be focused on through existing events and programs. The Lowcountry Stormwater Partners successfully focused on POC #4 by helping to develop and deliver the 2018 Carolina Clear Mass Media Campaign. This campaign consisted of two parts: billboards and commercials. Both focused on the message, “Be Prepared. Always Bring a Bag”. This message was meant to encourage pet owners to pick up their pets’ waste and reduce bacterial pollution. The billboards were hung in Beaufort County and garner a collective 346,336 weekly views. Similarly, the commercials aired in October and November for a total of 110,391 impressions. The Lowcountry Stormwater Partners also focused on POC #4 and POC #5 through the “Healthy Ponds, Healthy Communities” workshop, the “Cultivating a Carolina Yard” workshops, and multiple enviroscape presentations. The consortium also successfully addressed POC #3 through 11 litter cleanups, which is an increase of 266% from the last reporting year. The Lowcountry Stormwater Partners also successfully addressed POC #2 through events like the Mossy Oaks Block Party, the Rain Garden Lunch and Learn program, and “The Importance of Buffers” training. The second reason why the consortium successfully implemented MCM #1 in the Hilton Head Urbanized Area was that the Lowcountry Stormwater Partners also kept up with the implementation schedule according to the 2016-2018 Lowcountry Stormwater Partners Strategic Regional Stormwater Outreach Plan and created several successful educational programs.

One example of a successful Lowcountry Stormwater Partners’ educational event was the Rain Garden Lunch and Learn program. This program was held twice, once on 7/26/18 and then again on 10/15/18, at the Beaufort County Clemson Extension office from 12:00pm until 1:00pm. Both offerings were free of charge. The program was organized as a joint effort between Clemson Extension, Beaufort County Stormwater, and the Hilton Head Homebuilders’ Association. The Rain Garden Lunch and Learn program was created to assist contractors, developers, engineers, landscape architects, and other homebuilding professionals learn about rain garden function, design, installation, and maintenance. The audience’s knowledge on these topics was found lacking, according to Beaufort County Stormwater inspectors who found themselves writing citation on improperly designed rain gardens. In Beaufort County, developers are required to install a rain garden, or similar BMP, on all single-family residential lots. To address this lack of knowledge, the Lowcountry Stormwater Partners created the Rain Garden Lunch and Learn program. This program consists of a presentation by Beaufort County that covers why rain gardens are required, what common issues are seen in the field, and what corrective measures look like. Then, the local Clemson Extension Water Resources Agent, provides a presentation on rain garden design, installation, and maintenance. She also provides Clemson Extension’s “2016 Guide to Rain Garden” manual (a publication that goes into rain garden installation in great detail) as well as a list of other resources. The program concludes with a tour of a local rain garden and a question and answer session. 21 individuals attended the first workshop in July and 22 individuals attended the program in October. Out of the total of 43 individuals that attended the program, 33 returned program evaluations. Out of the 33 respondents, 100% reported that they gained knowledge from the program, 90% reported the program was “very useful, 10% reported the program as “somewhat useful”, and 97% reported that the program fit their needs.

Another successful Lowcountry Stormwater Partners’ program was the “Healthy Ponds, Healthy Communities” workshop. This workshop was held on 6/20/18 at the Oldfield Outfitters Club from 10:00am until 12:00pm. This workshop was organized as a response to the over 200% increase of pond consultations requests received after the 2016 Beaufort Area Stormwater Pond Conference. The communities that benefited from these consultations usually reach out the Lowcountry Stormwater Partners for help educating their community as a whole, and while the “Cultivating a Carolina Yard” is more popular, several communities requested this type of workshop as well. The “Healthy Ponds,

Healthy Communities” consists of two parts. The first part is an interactive presentation about stormwater pond function, design, common issues, and methods to manage those common issues. The next part is a detailed explanation of how the host community’s pond system functions and a hands-on guided tour of the community’s ponds to see the good, bad, and ugly management practices currently in place. When this workshop was held, 17 people attended and 88% of participants handed in an evaluation. Of the 15 respondents, 100% reported knowledge gain, 100% found the workshop “very useful”, and 100% reported that it met their needs.

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 Hilton Head Public Service District and the Hampton Lakes Community. The workshop at the Hilton Head Public Service District took place on 11/7/18 and had 21 participants, while the workshop at Hampton Lakes took place on 12/14/18 and had 28 participants. Evaluations were only given out at the Hilton Head Public Service District due to time constraints, but all 21 participants responded. 100% reported knowledge gain, 100% found the workshop “very useful”, and 100% reported that it met their needs.

A final example of a successful Lowcountry Stormwater Partners’ program was the “That’s MY Truck” coloring contest. This contest was held between 11/12/18 and 11/28/18 between all grade K-5 students in Beaufort County. This contest was organized by Lowcountry Stormwater Partners, Beaufort County, the Town of Bluffton, and the Beaufort County Soil and Water Conservation District. These partners created the contest to engage the youth of Beaufort County directly with their stormwater programs. The purchase of new street sweepers and vacuum trucks became the impetus for this contest. The students learned through a YouTube video that storm drains keep us and our environment safe. They also learned that not everyone knew that only rain should go down the drain, and that any pollution that went down the drain would lead to the local rivers. The video explained to the students that that fact was why local governments have street sweepers and vacuum trucks that keep pollution from entering our waterways. The students then learned that these trucks needed names, and that they could enter the “That’s My Truck” coloring contest to name the trucks. The three grand-prize winners received the right to name a truck, a visit by the trucks to their school, their art printed on the truck, and a gift bag! The six runner-up winners received a gift bag. 427 students entered the competition. All eligible grades were represented, public schools in every municipality participated, and several private/homeschool groups joined in as well. The winners were announced on 12/7/18 and the trucks visited the winners’ schools (May River Montessori, Port Royal Elementary, and Mossy Oaks Elementary) with their new names and art on 12/17/18. These visits began at 8:30am and concluded at 1:00pm with every student in all three schools having the opportunity to see the trucks, sit in their cabs, honk their horns, and see a demonstration of how the trucks work to keep storm drains clear.

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. However, the Lowcountry Stormwater Partners have not settled for the progress that has already been made. We are participating in the 2019 Carolina Clear Local Perceptions Survey, which should have results by March 2019. We will use this data to write the 2019-2023 Lowcountry Stormwater Partners Strategic Regional Outreach Plan, which will guide our programming for the next five years. An example of this programming is the Septic System Awareness Campaign. We are planning to set up a steering committee for the Septic System Awareness campaign in early 2019. The needs assessment and background research for this campaign was completed in 2018 and potential committee members were identified. Once the members are finalized, the group will work to craft a message and campaign strategy like the Carolina Clear Mass Media Campaign, but on a smaller scale. Other

examples of upcoming programming include adapting the “The Importance of Buffers” training for a residential audience on Harbor Island on 2/7/19, the “Healthy Ponds Workshop Series” on 2/14/19, and acting as a keynote speaker for the Oldfield Sustainability Fair on 3/2/19.

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 829,124 to 1,167,533. This is an increase of over 40%! However, the Lowcountry Stormwater Partners could make their programs even more effective in two key ways. The first is encouraging more of our partners to conduct evaluations after programs. Some of our partner already do this and gather valuable data that indicate that our existing programs are positive and informative experiences and clarify what was learned and if participants intent to change their behavior. However, not all our partners do. The Lowcountry Stormwater Partners plan to address this by creating a standardized evaluation form that all our partners can use. The form can be drafted during consortium meetings. The other method to improve our programs is to conduct more needs assessments prior to developing programs. This process was completed for the Neighbors for Clean Water program, which was subsequently cancelled due to its findings, as well as the Septic Tank Awareness program, which will form a steering committee in early 2019. Needs assessments for other programs are greatly needed though, as this year the Lowcountry Stormwater Partners will be creating their 2019-2023 Strategic Regional Outreach Plan, and data from those assessments will be key in designing a new strategic plan. We are addressing that need by participating in the 2019 Carolina Clear Local Perceptions Survey, which should have results by March 2019.

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
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	Target Audience	Measurable Goal(s)	Progress on Goal(s)	Activities Conducted and Planned	Specific Implementation Date(s)	Number of People Reached
POC #4, Petroleum Products, POC #6, POC #5, FOG, POC #3, POC #1, GSA	Summary of the Town of Bluffton's School Presentations	Youth, Teachers	The goals were to inform students about the Town of Bluffton's geography, marine waters, stormwater pollution, impervious surfaces, and ways to protect local water quality.	Completed	The Town of Bluffton visited Pritchardville Elementary, River Ridge Montessori, MC Riley Elementary, River Ridge Academy, and Red Cedar Elementary. Activities included building model watersheds, enviroscape demonstration, and hands-on water quality monitoring.	3/16/18, 3/26/18, 3/28/18, 5/17/18, 9/19/18	560

POC #4, POC #3, GSA	Master Naturalist Volunteer Fair	Residents	The Master Naturalist Volunteer Fair was held by the Lowcountry Master Naturalist Association to help its members find local volunteer and involvement opportunities.	Completed	The Town of Bluffton gave a brief presentation about volunteer opportunities that exist with the Town and LSP. This included the Town's 2 Annual Litter Cleanups and LSP's storm drain marking program. Master Naturalists had the opportunity to visit a table setup with LSP information and Town cleanup information.	1/23/18	100
POC #3	The Town of Bluffton's May River Cleanup	General Public	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 Town of Bluffton partnered with Keep Beaufort County Beautiful, Palmetto Pride, Port Royal Sound Foundation, Beaufort County Stormwater, i2 Recycle, Savannah Riverkeeper, and the Lowcountry Stormwater Partners to host the 18th Annual May River Cleanup. At this event, 350 volunteers picked up 2893 pounds of litter in/around the May River.	4/28/18	350
POC #3, GSA	Storm Drain Marking	General Public	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	Three volunteers marked 30 storm drains during the May River Cleanup.	4/28/18	3

POC #3	The Town of Bluffton's Keep Bluffton Beautiful Cleanup	General Public	The goal of this event is to engage and involve citizens in removing litter from their environment. Its effectiveness will be determined through pounds of litter removed.	Completed	On 5/19/18, the Town of Bluffton, Beaufort County, Keep Beaufort County Beautiful, and Palmetto Pride partnered to have 30 volunteers spend 3 hours (90 volunteer hours) removing 1125 pounds of litter from the May River Watershed.	5/19/18	30
POC #3, GSA	The Town of Bluffton's Arts and Seafood Festival	General Public	The Bluffton Arts & Seafood Festival is a yearly week-long festival of local art, music, food, and education that promotes the protection of the May River. The effectiveness of this activity will be determined through engagement.	Completed	The Town of Bluffton gave a presentation.	10/15/18	75
POC #3	Lowcountry Litter Cleanup Day	Residents, Technical Staff, Engineers, Developers, Elected/Appointed Officials	The goal of this event is to engage and involve citizens in removing litter from their environment. Its effectiveness will be determined through number of volunteers and pounds of litter removed.	Completed	On 11/1/18, Beaufort County, Keep Beaufort County Beautiful, the Town of Bluffton, the Town of Hilton Head Island partnered to host this county-wide event. 100 volunteers spent three hours (for a total of 300 volunteer hours) removing 19,185 pounds of litter.	11/1/18	100
POC #1	The Town of Bluffton's Discussion with the Tabby Roads HOA	Residents	This meeting's goal was to answer questions about BMP inspections, maintenance and annual reporting to ensure they are compliant with MS4 and Town UDO requirements.	Completed	Town of Bluffton staff met with HOA leaders and answered their questions.	8/31/18	2

POC #1	The Town of Bluffton's Discussion with Tree Wiseman and a Property Management Representative	Supervisory Staff, Administrators, Stormwater Managers, Commercial	This meeting's goal was to answer questions about BMP inspections, tree removal along stormwater ponds and outfall structures, maintenance, and annual reporting to ensure they are compliant with MS4 and Town UDO requirements.	Completed	Town of Bluffton staff met with HOA leaders and answered their questions.	8/13/18	2
POC #1	The Town of Bluffton's Discussion with Saul's Funeral Home	Supervisory Staff, Administrators, Stormwater Managers, Commercial	This meeting's goal was to answer questions about BMP inspections, maintenance, and annual reporting to ensure they are compliant with MS4 and Town UDO requirements.	Completed	Town of Bluffton staff met with HOA leaders and answered their questions.	9/19/18	2
POC #1, POC #3	Beaufort County's Discussion with Saul's Funeral Home	Supervisory Staff, Administrators, Stormwater Managers, Commercial	This meeting's goal was to educate Saul's Funeral Home on the importance of ditch maintenance and to give a better understanding of stormwater drainage from adjacent properties.	Completed	This discussion led to better understanding of how stormwater drains and ditch maintenance.	9/20/18	4
POC #1	The Town of Bluffton's Discussion with Bluffton Park HOA	Residents	This meeting's goal was to answer questions the Bluffton Park HOA had about BMP inspections, maintenance and annual reporting to ensure they are compliant with MS4 and Town UDO requirements.	Completed	The resolution of the discussion with HOA representatives was that Bluffton Park was informed that they are responsible for their stormwater infrastructure and its maintenance and their questions on inspections and reporting were answered.	9/4/18	2

POC #1	The Town of Bluffton's Discussion with Tabby Shell HOA	Residents	This meeting's goal was to answer questions the Bluffton Park HOA had about BMP inspections, maintenance and annual reporting to ensure they are compliant with MS4 and Town UDO requirements.	Completed	This discussion between town staff and HOA representatives took place to provide detailed answers to questions about the BMP Inspection program.	9/7/18	2
POC #1	The Town of Bluffton's Discussion with the Tabby Roads HOA	Residents	This meeting's goal was to answer questions the Bluffton Park HOA had about BMP inspections, maintenance and annual reporting to ensure they are compliant with MS4 and Town UDO requirements.	Completed	This discussion took place between town staff and a new HOA representative to inform her about what had previously been discussed with other representatives.	12/7/18	1
POC #6, POC #1	Home Builders Association Roundtable Lunch	Residents, Technical Staff, Engineers, Developers, Field Staff, Maintenance, Facilities, Supervisory Staff, Administrators, Stormwater Managers, Contractors	The goal of this meeting was to educate the Home Builder's Association on construction standard across the Lowcountry with the different jurisdictional offices.	Completed	Beaufort County and other municipalities presented on the permitting processes and standards in their area.	7/11/18	100
POC #1	Beaufort County Stormwater Pond Maintenance Consultation	Other	The goal was to determine a pond issue, educate the residents on proper pond maintenance, and brainstorm a solution to the issue.	Completed	The pond owner and the County found resolution. Beaufort County will consult on maintenance with a third party doing the work.	2/21/18	4

POC #4, Toxins, POC #3, GSA, POC #2, OTHER	S.C. SeaGrant's Coastal Futures Forum	Residents, Technical Staff, Engineers, Developers, Field Staff, Maintenance, Facilities, Contractors, Commercial, Pet Owners, Other	The Coastal Futures forum uses deliberative discussion to bridge the sometimes- opposing opinions on environmental issues facing coastal South Carolinians. Analysis of these surveys will be used to provide decision-makers with an improved understanding of their constituents' priorities and needs.	Completed	The 35 participants in this forum were given the opportunity to listen to presentations by experts on the coastal issues and, in small groups, discuss how each issue could be addressed or resolved. Towards the end of the forum, each of the small groups reported on their discussions. Topic covered in this forum included climate change, how activity on land affects water quality, toxic environments, and the previous' effect on people.	5/17/18	35
GSA, OTHER	Beaufort County Stormwater's Presentation at the Whale Branch School's Career Day	Youth	The goal of this event was to teach groups of kids about stormwater and how the County manages it with the help of our Infrastructure team. The program's success will be determined by the number of children reached.	Completed	On 5/18/18, Whale Branch School hosted their annual career day. Beaufort County Stormwater presented to the student body how stormwater runoff can negatively impact water quality. They also presented how the County seeks to mitigate this with the help of the Infrastructure team and talked about possible local employment with said team.	5/18/18	248
POC #4, POC #1, GSA, POC #2, OTHER	Beaufort County's Okatie West 319 Grant Field Day	Elected/Appointed Officials, Field Staff, Maintenance, Facilities, Supervisory Staff, Administrators, Stormwater Managers, Contractors	This event's goal was to teach stormwater professionals, contractors, and stakeholders about the current designs/ techniques in detention as well as bacteria removal. The events success was measured by attendance.	Completed	The Okatie West Regional Stormwater Detention Project. was a Clean Water Act Section 319 grant project. As part of the 319 grant, Beaufort County held a field day for local professionals and stakeholders to see the site and learn from its design.	7/27/18	11

POC #1	Beaufort County Stormwater Meeting with Oldfield	Stormwater Pond Managers	The goal of this meeting was to educate stormwater pond manager on the importance of maintenance of community ponds.	Completed	Beaufort County Stormwater assisted the pond owner in understanding their ponds' issue and how it could be resolved.	8/22/18	2
POC #1	Beaufort County Stormwater Meeting with Belfair	Stormwater Pond Managers	The goal of this meeting was to educate stormwater pond manager on the importance of maintenance of community ponds.	Completed	Beaufort County Stormwater assisted the pond owner in understanding their ponds' issue and how it could be resolved.	10/16/18	2
GSA, OTHER	Beaufort County Stormwater's Presentation at St. Helena Elementary School's Career Day	Youth	The goal of this event was to teach groups of kids about stormwater and how the County manages it with the help of our Infrastructure team. The program's success will be determined by the number of children reached.	Completed	Beaufort County Stormwater presented to the student body how stormwater runoff can negatively impact water quality. They also presented how the County seeks to mitigate this with the help of the Infrastructure team and talked about possible local employment with said team.	4/27/18	120
POC #3, GSA	BJSWA Canal Paddle Trip led by Savannah Riverkeeper	Residents	The goal of the paddle was to provide hands-on education about water quality and the saltmarsh ecosystem in the Savannah River watershed.	Completed	On 12/19/18, the Savannah Riverkeeper led six residents on a guided paddle through the BJWSA canal and surrounding waterways.	12/19/18	6
POC #3	Coastal Conservation League Plastics Presentation for the Port Royal Town Council	Elected/Appointed Officials, Commercial	The goal of this presentation was to provide background information and support for the upcoming county-wide single-use plastic bag ban. Its success will be determined by the number of attendees.	Completed	On 1/10/18, the Coastal Conservation League gave this presentation to 12 people at the Port Royal Town Hall.	01/10/18	12

POC #6, GSA	Stormwater Tour of Mossy Oaks	Residents	The tour was meant to drive interest in the work of the Mossy Oaks Task Force and to foster citizen engagement as the force worked towards developing a plan to address these issues.	Completed	On 1/24/18, the Coastal Conservation League led two residents on an in-depth tour of the neighborhood. They discussed how stormwater runoff can affect neighborhood issues such as water quality and flooding.	01/24/18	2
POC #3, POC #2, POC #5	Green Steps Projects	Youth	This environmental education initiative encourages individual schools to take annual steps toward becoming more environmentally responsible.	Completed	The Beaufort County Soil and Water Conservation District provided support and guidance to Whale Branch Elementary School as they tried to become a certified SC Green Steps School. Their projects focused around recycling, composting, rain barrels, and litter removal.	1/8/18 - 4/2/18	300
POC #3	Green Steps Projects	Youth	This environmental education initiative encourages individual schools to take annual steps toward becoming more environmentally responsible.	Completed	The Beaufort County Soil and Water Conservation District provided support and guidance to Port Royal Elementary School as they tried to become a certified SC Green Steps School. Their projects focused around recycling, oyster shell recycling, and litter removal.	1/8/18 - 5/8/18	200
GSA, POC #2	Cypress Wetlands Tour	Youth	The goal of this tour was to emphasize how the constructed wetlands functioned as stormwater catchment area.	Completed	On 4/6/18, the Beaufort Soil and Water Conservation District led 22 students from Port Royal Elementary school on a tour of the constructed wetlands. The tour included plant and animal identification lessons as well as how the wetlands work to alleviate stormwater runoff pollution.	4/6/18	22

GSA	"Why are Salt Marshes Important?" Trip	Youth	The goal was to teach school children about the value, functions, and native species in the salt marsh as well as how the saltmarsh is affected by stormwater.	Completed	The Town of Hilton Head Island Staff led a guided field trip to Pinckney Colony.	08/09/18	17
Toxins, POC #6, POC #5, Pesticide, POC #3, GSA, POC #2	Environmental Science Course at USCB	Higher Education Students	The goal was to course stress the environmental impacts of human activities and what can be done to prevent them. Its success was determined by the number of students who passed.	Completed	The Town of Hilton Head Island staff taught this semester-long course.	8/23/18 - 12/7/18	18
POC #6, POC #5, GSA	Field Trip to Jarvis Creek Park	Technical Staff, Engineers, Field Staff, Facilities, Supervisory Staff, Administrators, Stormwater Managers, Contractors	The goal was to discuss how this parks' green infrastructure handles stormwater from an urban watershed.	Completed	The Town of Hilton Head Island staff led a guided tour of Jarvis Park for SESWA Regional Conference attendees.	10/3/18	55
POC #3	School Litter Cleanup	Youth	The goal of this event is to engage and involve citizens in removing litter from their environment. Its effectiveness will be determined through number of volunteers.	Completed	On 10/25/18, the Beaufort County Soil and Water Conservation District led a litter cleanup at Beaufort Middle School with 39 students.	10/25/18	39
GSA, POC #2, POC #3, POC #5, POC #4	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 and the Atlantic Ocean.	Ongoing	Through hands-on experiments and discovery, students see and experience first-hand our local environment, Participants include in all grades from public, private and charter schools and homes-schooling programs, as well as after-school and summer programs.		2330

GSA, POC #2, POC #3, POC #5, POC #4	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), and Dolphin Research Cruises (An Eco-Boat tour meets dolphin research)	1585
GSA, POC #2, POC #3, POC #5, POC #4	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.	334
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.	2476

<p>POC #1, POC #6, GSA</p>	<p>Certified Erosion Prevention and Sediment Control Inspector (CEPSCI)</p>	<p>Technical Staff, Engineers, Developers, Field Staff, Maintenance, Facilities, Contractors</p>	<p>The purpose of the 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.</p>	<p>Ongoing</p>			<p>763</p>
<p>POC #1, GSA, POC #2</p>	<p>Certified Stormwater Plan Reviewer (CSPR)</p>	<p>Technical Staff, Engineers, Developers, Field Staff, Maintenance, Facilities, Contractors</p>	<p>The purpose of the 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</p>	<p>Ongoing</p>			<p>80</p>
<p>POC #3</p>	<p>Adopt-A-Highway Program</p>	<p>Residents</p>	<p>The Adopt-A-Highway program's 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, and pounds of litter removed.</p>	<p>Ongoing</p>	<p>There were 3264 volunteers who were part of 100 active volunteer groups who picked up 88,815 lbs. of trash.</p>		<p>3264</p>

POC #1, POC #5, BAD, POC #6, GSA, POC #2	Clemson Extension's Master Rain Gardener	Contractors, Technical Staff, Engineers, Developers, Commercial, Residents,	The Master Rain Gardener (MRG) program will provide design standards and the knowledge- based skill set necessary to install rain gardens and rainwater harvesting systems on a residential scale.	Ongoing	The Master Rain Gardener program is a hybrid, multi-week curriculum allowing for self-paced online learning modules, hands-on field experience, and a two-track option to meet the needs of diverse audiences. Master Rain Gardener has been offered twice in 2018 and had 83 participants from 40 different cities and town in SC.	83
POC #5, POC #6, POC #4, GSA	Clemson Extensions' Carolina Yards Program	Residents	Clemson Extension's Carolina Yards program works with residents to create healthy, watershed- friendly landscapes. The program's success will be measured in newly certified yards.	Ongoing	There is a total of 424 current certified Carolina Yards across the state, but this year 93 new yards were added to the total. Seven of these new yards are in Beaufort County, including the Carolina Yard of the Year.	93
POC #5, POC #6, POC #4, GSA	Clemson Extensions' Carolina Yards Facebook	Residents	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		626

POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Clemson Extension's 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			47879
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Clemson Extension's 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.		9900
POC #1, POC #4, POC #5, POC #6, GSA	Clemson's Master Pond Manager Course	Pond Managers	Participants in the course actively engage in self-paced lectures, discussion, and quizzes in the online classroom. They cover topics such as pond design, inspection, and maintenance as well as others. Course success is tracked through participation and certification.	Ongoing	72 people took the course (which was offered twice) and 13 certified as Master Pond Managers.		72

<p>POC #1, GSA</p>	<p>Post Construction Best Management Practice Inspector Course</p>	<p>Field Staff, Facilities, Maintenance, Technical Staff, Engineers, Developers</p>	<p>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, and more. Its success will be measured in number of participants.</p>	<p>Ongoing</p>	<p>The course was offered in the spring with 24 participants and in the fall with 29 participants.</p>		<p>53</p>
<p>POC #2, POC #5, GSA</p>	<p>Master Naturalist Program</p>	<p>Residents, Teachers, Field Staff, Technical Staff, Facilities, Maintenance</p>	<p>The SC Master Naturalist Program aims to create a statewide corps of volunteers providing education, outreach, and service dedicated to the beneficial management of natural resources.</p>	<p>Ongoing</p>	<p>The Lowcountry Institute holds the 12 session Master Naturalist courses four times a year. After receiving training, Master Naturalists may participate in many different types of volunteer activities.</p>		<p>96</p>
<p>POC #2, POC #5, GSA</p>	<p>Master Naturalist Advanced Trainings</p>	<p>Residents, Teachers, Field Staff, Technical Staff, Facilities, Maintenance</p>	<p>The goal of these programs is to keep alumni engaged and learning the most updated information. Success is determined by the number of participants.</p>	<p>Ongoing</p>	<p>These trainings offer a variety of environmental topics for people who have already taken the Master Naturalist Course.</p>	<p>2/9/18, 5/16/18, 5/18/18, 6/19/18, 7/11/18, 7/25/18, 10/9/18, 10/13/18, 10/24/18, 10/25/18, 11/13/18, 12/5/18</p>	<p>323</p>

POC #3, POC #4, POC #5, POC #2, GSA	Kids in Kayaks Program	Youth	The goal of the Kids in Kayaks program is to bring local youth outside and to have them participate in experiential learning about their local ecosystems and natural resources.	Completed	This program was offered 25 times by the Outside Foundation this year to schools in the Town of Bluffton and the Town of Hilton Head Island.	4/17/18, 4/18/18, 4/20/18, 4/24/18, 4/25/18, 4/26/18, 4/27/18, 4/30/18, 5/1/18, 5/3/18, 5/4/18, 6/14/18, 6/19/18, 10/12/18, 10/15/18, 10/16/18, 10/19/18, 10/22/18, 10/23/18, 10/24/18, 10/28/18, 10/29/18, 10/30/18, 10/31/18, 11/2/18	882
POC #3, POC #4, POC #5, POC #2, GSA	Boys and Girls Club Program	Youth	The goal of this program is to bring local youth outside and to have them participate in experiential learning about their local ecosystems and natural resources.	Completed	The Outside Foundation organized this program five times.	4/10/18, 5/24/18, 10/4/18, 10/18/18, 11/1/18	67
POC #3	The Outside Foundation Cleanups	General Public	The goal of these events is to engage and involve citizens in removing litter from their environment. Its effectiveness will be determined through number of volunteers and pounds of litter removed.	Completed	The Outside Foundation hosted seven cleanups that removed 900 pounds of trash from local watersheds.	3/25/18, 4/21/18, 6/2/18, 6/16/18, 6/23/18, 7/7/18, 11/18/18	150
POC #6, POC #4, POC #5, POC #2, GSA	ORRBI Oyster Shell Bagging and Reef Restoration	General Public	The goal of this program is to educate the public about the beauty, utility, and health of Hilton Head Island's saltmarsh ecosystem.	Ongoing	The Outside Foundation hosted these events five times and restored one reef on Paige Island.	5/17/18, 6/30/18, 7/27/18, 10/29/18, 11/5/18	126

POC #1, POC #5, POC #2, GSA	Pond Maintenance Document Created for Rose Hill Plantation Board	Pond Managers, Residents	The goal of this document was to educate the Rose Hill board about stormwater pond function, design, maintenance, and common issues.	Completed		3/20/18	N/A
POC #1, POC #5, POC #2, GSA	Pond Consultation with Harbor Island	Pond Managers, Residents	The goal of these consultations is to help pond owners to determine issues with their stormwater ponds and to educate them on proper pond maintenance.	Completed	Assisted with algae identification and sample processing through Clemson's Ag Service Lab. Also recommended shoreline buffers as an additional method of reducing nutrient pollution. The question of dam safety was brought up and passed along to an engineer.	3/30/18	3
POC #4, POC #5, Pesticide, Petroleum Products, GSA	Touch a Truck	General Public	This presentation is aimed at children to get a feel for what the County does with all of our heavy machinery and infrastructure as it relates to Stormwater. Carolina Clear also provided enviroscape presentations for the duration of the event.	Completed	This event was hosted by the Tanger outlets and tabled by Carolina Clear and Beaufort County.	4/7/18	688
GSA	Soft Shell Crab Fest	General Public		Completed	The Lowcountry Stormwater Partners, Beaufort County Soil and Water Conservation District, Coastal Conservation League, Port Royal Sound Foundation, and Lowcountry Master Gardeners' all had educational displays at this event.	4/21/18	500

POC #3, GSA	Earth Day at the Port Royal Farmer's Market	General Public	This event's goal was to introduce residents to environmental organizations in Beaufort County and their work	Completed	The Beaufort County Soil and Water Conservation District, Coastal Conservation League, and Lowcountry Master Gardeners' all had educational displays at this event.	4/21/18	500
POC #1, POC #2, POC #4, POC #5, GSA	"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	Completed	This presentation was given on Spring Island. All respondents reported knowledge gain.	4/25/18	13
POC #1, POC #5, POC #2, GSA	Pond Consultation with Hampton Lakes	Pond Managers, Residents	The goal of these consultations is to help pond owners to determine issues with their stormwater ponds and educate them on proper pond maintenance.	Completed	Assisted with algae identification and sample processing through Clemson's Ag Service Lab. Also recommended shoreline buffers as an additional method of reducing nutrient pollution.	5/25/18	1
POC #2, POC #5, POC #4, POC #6, GSA	"Healthy Ponds, Healthy Communities" Workshop	Residents	This workshop's goal was to explain how stormwater ponds function, how to maintain them, and common issues they experience.	Completed	This workshop was given at the Oldfield community in partnership with their staff. The workshop was two hours long and consisted of a PowerPoint presentation and a guided tour of the ponds.	6/20/18	17

POC #2, GSA, POC #4, POC #5	"The Importance of Buffers" Training	Field Staff, Maintenance, Facilities	This training focused upon the importance of the saltmarsh, stormwater basics, and how buffers can protect the saltmarsh from stormwater runoff.	Completed	The LSP partnered with Horticulture Agent, Laura Lee Rose, to provide this information. The workshop was three hours long. The first hour and a half consisted of the LSP giving the "Stormwater and the Saltmarsh" presentation as well as a hands-on enviroscape demonstration. The second hour and a half consisted of Laura Lee Rose giving a presentation on native plants as well as a guided tour of a local buffer area.	6/21/18	14
GSA	Lowcountry Stormwater Partners Partner Facebook Pages	General Public	These pages are managed by partner organizations but will assist the LSP in spreading information about public participation opportunities and engaging the public. Their effectiveness will be tracked through "Likes".	Ongoing			92963
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.	In Planning	Topics covered include: Establishing vegetative cover, Hydro mulching, Erosion control blankets, Turf reinforcement mats, and more! Speakers were unavailable in 2018 due to conflicting schedules.		

POC #4	Pet waste Station Installation	Pet Owners	Install one pet waste station per year.	Cancelled	This program will be rolled into the LSP BMP Giveaway program, set to launch in 2019.		
POC #3	Beach Sweep	Residents	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	Cancelled due to hurricane.	9/15/18	
CM, GSA	Lowcountry Stormwater Partners New Partner Recruitment	General Public		Ongoing	By involving new partners in the consortium, the LSP has increased its ability to provide stormwater education and involvement opportunities.		2
POC #2, POC #5, POC #6, GSA	Port Royal Elementary School Rain Garden	Youth	As part of the Green Steps Schools program, the LSP will help the school design and install a demonstration rain garden	Cancelled	Port Royal Elementary decided not to pursue a rain garden project due to staff turnover.		

POC #2, POC #4, GSA	Lowcountry Stormwater Partners BMP Giveaway Program (formerly Community Grants)	Residents, Commercial	This application-based program will provide stormwater BMPs (rain barrels, pet waste stations, and educational signage) for highly visible private properties.	In Planning	The program went through serious restructuring last year due to the failure of similar programs in the state. Planned to launch in summer 2019		
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA, FOG	Educational Stormwater Display at the Port Royal Farmer's Market	General Public	This display is a source of stormwater and BMP information and consist of brochures, post cards, fact sheets, etc.	Ongoing	Clemson Extension Agents and Master Gardener volunteers were present with stormwater outreach materials at 3 farmer's markets.		
GSA, POC #2, POC #4, POC #5	Enviroscape Presentation	Residents	The Enviroscape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution.	Completed	The Lowcountry Stormwater Partners provided this demonstration as part of the Port Royal Sound Foundation's Fourth Birthday Celebration.	11/17/18	400

GSA	That's MY Truck Coloring Contest	Youth	<p>This coloring contest was held for K- 5 students across Beaufort County. Students learned that only rain should go down the storm drain by coloring pages of vacuum trucks and street sweepers. The three grand-prize winners of the contest won the right to name Beaufort County's street sweeper, the Town of Bluffton's street sweeper, or Beaufort County's vacuum truck, an art kit, their art printed on the truck, and a visit from the trucks to their school. Its success was determined through the amount of entries.</p>	Completed	427 students from all five municipalities participated.	11/12/18 - 11/28/18	472
GSA, POC #2, POC #5, POC #4, Pesticide, POC #6	Cultivating a Carolina Yards Workshop	Residents	<p>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.</p>	Completed	<p>This six-hour workshop was given at the Hilton Head Island Public Service District. There were 21 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.</p>	11/7/18	21

POC #2, POC #5, POC #6, GSA	Rain Garden Lunch and Learn	Field Staff, Maintenance, Facilities, Contractors, Commercial, Technical Staff, Engineers, Developers	This workshop was meant to assist professionals with rain garden design, installation, and maintenance. Its success will be determined by evaluations.	Completed	This workshop included a small lecture from Beaufort County MS4 coordinator, a PowerPoint from the local water resources agent, and a hand-out package that included the Clemson Extension 2016 Guide to Rain Gardens. 17 participants handed in evaluations and 100% reported knowledge gain and that the program met their needs.	10/15/18	22
POC #4, Toxins, Petroleum Products, POC #6, POC #5, Pesticide, FOG, POC #3, GSA, POC #2	Enviroscape Presentation	Youth, Residents	The Enviroscape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution.	Completed	The Lowcountry Stormwater Partners provided this demonstration as part of the City of Beaufort's Shrimp Fest.	10/6/18	200
POC #3, GSA	Enviroscape Presentation	Residents	The Enviroscape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution.	Completed	The Lowcountry Stormwater Partners provided this demonstration as part of the Outside Foundation's Keep Broad Creek Clean Festival.	8/16/18	250
GSA, POC #1, POC #5, POC #2	Indigo Run Pond Consultation	Pond Managers, Residents	The goal of these consultations is to help pond owners to determine issues with their stormwater ponds and educate them on proper pond maintenance.	Completed	Assisted with algae identification and sample processing through Clemson's Ag Service Lab. Also recommended shoreline buffers, floating wetlands, and homeowner fertilizer education as an additional method of reducing nutrient pollution.	8/8/18	4

POC #2, POC #5, POC #6, GSA	Rain Garden Lunch and Learn	Field Staff, Maintenance, Facilities, Contractors, Commercial, Technical Staff, Engineers, Developers	This workshop was meant to assist professionals with rain garden design, installation, and maintenance. Its success will be determined by evaluations.	Completed	This workshop included a small lecture from Beaufort County MS4 coordinator, a PowerPoint from the local water resources agent, and a hand-out package that included the Clemson Extension 2016 Guide to Rain Gardens. 17 participants handed in evaluations and 100% reported knowledge gain and 94% reported that the program met their needs.	7/26/18	21	
GSA	Touch a Truck -Port Royal	Youth, Residents	This presentation is aimed at children to get a feel for what the County does with all of our heavy machinery and infrastructure as it relates to Stormwater.	Completed	This event was hosted by the Town of Port Royal and tabled by Beaufort County.	11/2/18	200	
POC #3, POC #5, GSA	South Carolina Adopt-A- Stream (SC AAS) Citizen Monitoring	Residents	SC AAS creates a network of watershed stewardship, engagement, and education through involvement. SC AAS volunteers can play a role in monitoring and tracking water quality while sharing information about local water resources with their communities. 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.			
Total Number of Individuals Impacted								169,899

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 Lowcountry Stormwater Partners successfully implemented MCM#2 in the Hilton Head Urbanized Area for several reasons. The most notable success was the “That’s MY Truck” coloring contest. This contest was held between 11/12/18 and 11/28/18 between all grade K-5 students in Beaufort County. This contest was organized by Lowcountry Stormwater Partners, Beaufort County, the Town of Bluffton, and the Beaufort County Soil and Water Conservation District. These partners created the contest to engage the youth of Beaufort County directly with their stormwater programs. The purchase of new street sweepers and vacuum trucks became the impetus for this contest. The students learned through a YouTube video that storm drains keep us and our environment safe. They also learned that not everyone knew that only rain should go down the drain, and that any pollution that went down the drain would lead to the local rivers. The video explained to the students that that fact was why local governments have street sweepers and vacuum trucks that keep pollution from entering our waterways. The students then learned that these trucks needed names, and that they could enter the “That’s My Truck” coloring contest to name the trucks. The three grand-prize winners received the right to name a truck, a visit by the trucks to their school, their art printed on the truck, and a gift bag! The six runner-up winners received a gift bag. 427 students entered the competition. All eligible grades were represented, public schools in every municipality participated, and several private/homeschool groups joined in as well. The winners were announced on 12/7/18 and the trucks visited the winners’ schools (May River Montessori, Port Royal Elementary, and Mossy Oaks Elementary) with their new names and art on 12/17/18. These visits began at 8:30am and concluded at 1:00pm with every student in all three schools having the opportunity to see the trucks, sit in their cabs, honk their horns, and see a demonstration of how the trucks work to keep storm drains clear. The Lowcountry Stormwater Partners also successfully involved the community in stormwater pollution prevention through the Green Step Schools program. This environmental education initiative encourages individual schools to take annual steps toward becoming more environmentally responsible. Schools get involved in the program by forming a staff “Green Team”, attending a SC Green Steps Training, outlining four projects (one of which that could serve as a model for the community), and working with a local mentor to complete and evaluate the projects. In Beaufort County, the Beaufort County Soil and Water Conservation District is a Green Steps mentor. This year they helped two schools, Whale Branch Elementary and Port Royal Elementary, work towards Green Steps certification. Whale Branch Elementary involved over 300 students in projects revolving around recycling, composting, litter reduction, and rain barrel installation. Port Royal Elementary involved over 200 students in projects revolving around recycling, litter reduction, and oyster shell recycling. Both schools began their projects in January and completed them in May.

Another example of a successful community involvement program is “Healthy Ponds, Healthy Communities” workshop. This workshop was held on 6/20/18 at the Oldfield Outfitters Club from 10:00am until 12:00pm. This workshop was organized as a response to the over 200% increase of pond consultations requests received after the 2016 Beaufort Area Stormwater Pond Conference. The communities that benefited from these consultations usually reach out the Lowcountry Stormwater Partners for help educating their community as a whole, and while the “Cultivating a Carolina Yard” is more popular, several communities requested this type of workshop as well. The “Healthy Ponds, Healthy Communities” consists of two parts. The first part is an interactive presentation about stormwater pond function, design, common issues, and methods to manage those common issues. The next part is a detailed explanation of how the host community’s pond system functions and a hands-on guided tour of the community’s ponds to see the good, bad, and ugly management practices currently in place. When this workshop was held, 17 people attended and 88% of participants handed in an evaluation. Of the 15 respondents, 100% reported knowledge gain, 100% found the workshop “very useful”, and 100% reported that it met their needs.

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 18th Annual May River Cleanup. The 18th Annual May River Cleanup took place on 4/28/18. On that day, 340 volunteers picked up litter along 3 miles of the May River shoreline from 9:00am – 11:30am, for a total of 1,050 volunteer hours. The volunteers collected 2,893 lbs. of solid waste (17% of which was recycled) and marked more 30 storm drains in Old Town Bluffton. The Lowcountry Stormwater Partners tables at this event and provided enviroscape demonstrations.

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 local festivals (Shrimp Fest, Keep Broad Creek Clean Festival Soft Shell Crab Festival, etc.), the Touch-A-Truck events, school career days, and the Port Royal Sound Foundation Maritime Center's 4th Birthday Celebration 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.

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. However, the Lowcountry Stormwater Partners have not settled for the progress that has already been made. The Lowcountry Stormwater Partners are planning new and unique engagement opportunities in 2019. For example, we are partnering with the USCB Biology Honors College to launch a storm drain marking program so that the students can get hands-on experience helping the environment. The first presentation and volunteer drive will be on 1/29/19. Similarly, we are partnering with the Savannah Riverkeeper and Port Royal Sound Foundation to launch initial trainings for the South Carolina Adopt-A-Stream citizen monitoring program. Savannah Riverkeeper received permission to perform saltwater training and the Port Royal Sound Foundation has the space to host the hands-on training and wants to become one of the first volunteer groups as well. Finally, the Lowcountry Stormwater Partners is planning to launch a BMP Giveaway program (formerly referred to as the Community Grants program). This application-based program will provide stormwater BMPs (rain barrels, pet waste stations, and educational signage) for highly visible private properties, such as HOA community spaces. The reduced scope and re-structuring of the program came about due to the failure of similar programs in the state. The Lowcountry Stormwater Partners plans to launch this program in summer 2019.

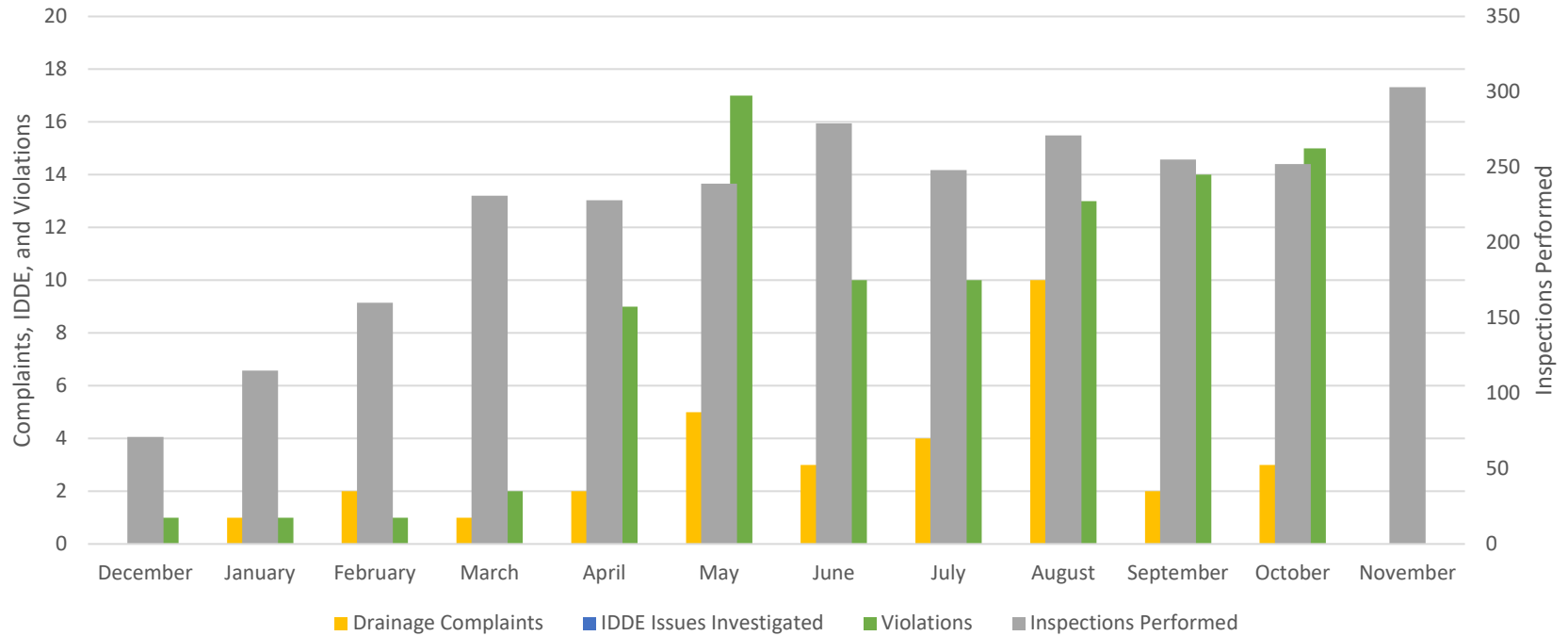
2. Provide an evaluation of where the program needs improvement and explain any actions that will be taken to achieve objectives:

The Lowcountry Stormwater Partners continued to expand its outreach efforts as well as directly engage with specific target audiences, specifically youth. Our total impacts have significantly increased from 134,149 to 169,899. This is an increase of approximately 26%! 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 engaging the community in hands-on water quality monitoring. It is one thing to tell people how stormwater runoff impacts water quality, but it is another when they can see it with their own eyes. Also, engaging citizens in monitoring efforts can increase a sense of ownership and personal responsibility for local waterways. That is why the Lowcountry Stormwater Partners are partnering with the Savannah Riverkeeper and Port Royal Sound Foundation to launch initial trainings for the South Carolina Adopt-A-Stream citizen monitoring program. Savannah Riverkeeper received permission to

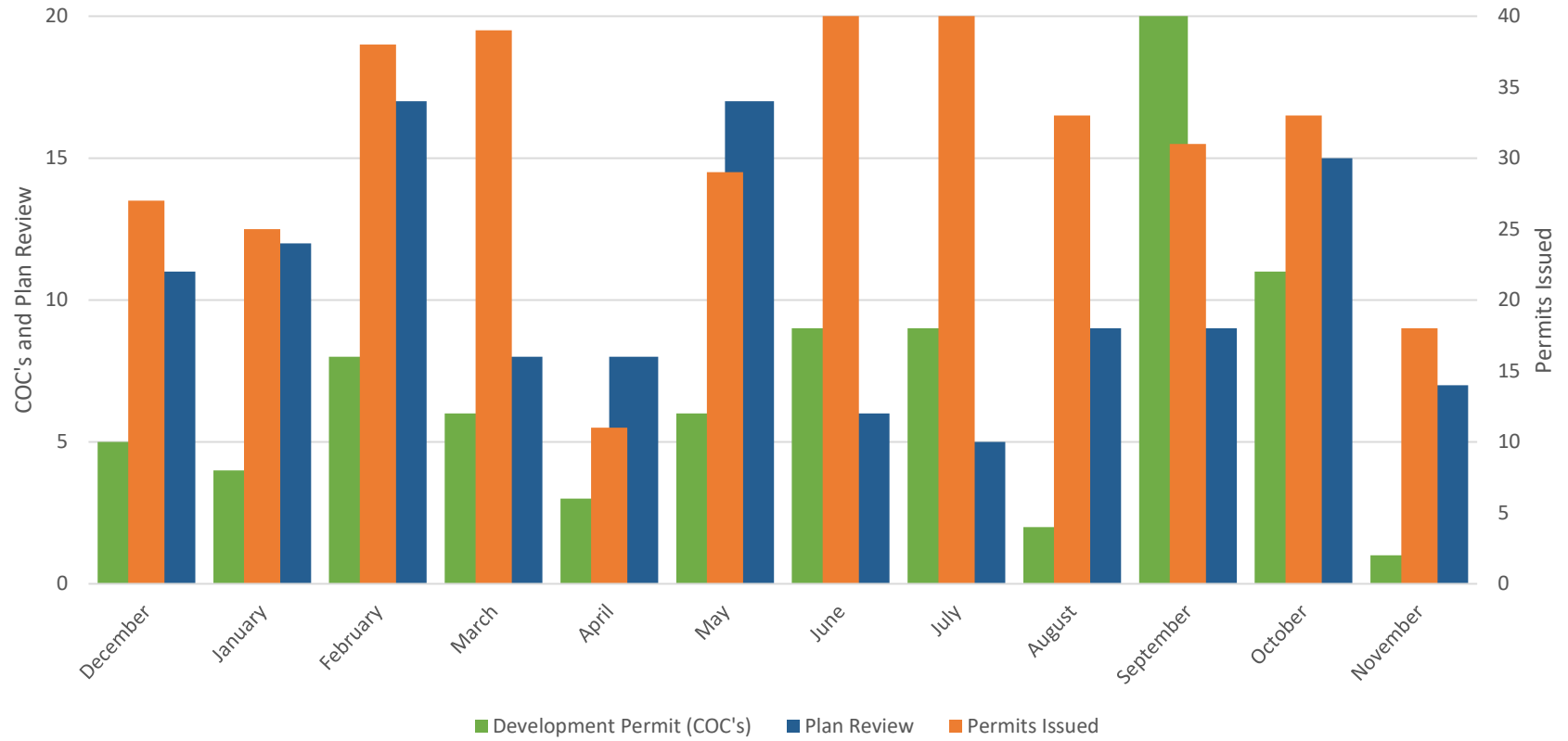
perform saltwater training and the Port Royal Sound Foundation has the space to host the hands-on training and wants to become one of the first volunteer groups as well. The first training will occur in early 2019.

MS4 Minimum Control Measure #4 Erosion Sediment Control Inspections



TYPE	December	January	February	March	April	May	June	July	August	September	October	November	Last 12 Months
Inspections Performed	71	115	160	231	228	239	279	248	271	255	252	303	2652
Drainage Complaints	0	1	2	1	2	5	3	4	10	2	3	0	33
IDDE Issues Investigated	2	0	1	0	0	1	0	1	2	1	2	0	10
Violations	1	1	1	2	9	17	10	10	13	14	15	0	93

MS4 Minimum Control Measure #5 Stormwater Plan Review



TYPE	December	January	February	March	April	May	June	July	August	September	October	November	Last 12 Months
Development Permit (COC's)	5	4	8	6	3	6	9	9	2	21	11	1	85
Plan Review	11	12	17	8	8	17	6	5	9	9	15	7	124
Permits Issued	27	25	38	39	11	29	47	45	33	31	33	18	376

Fecal Coliform Removal Efficiency of Walmart Detention Pond Located in Bluffton, SC



Sampling Locations



WMPIn: N32.257084 -80.855553
Sampling point for water originating from
Walmart and Sam's Club parking lots



WMPOut: N32.260125 -80.857240
Sampling point for water exiting wet detention
pond into vegetated wetland



WMPWet: N32.258872 -80.867015
Sampling point for water flowing northward
toward Highway 278 that does not enter the
wet detention pond



WMP278: N32.261867 -80.854971
Sampling point adjacent to Highway 278
consisting of water discharged from wet detention
pond combined with that which never entered

Fecal Coliform Data at Each Sampling Location

Sampling Date	WMPIn (CFU/100 mL)*	WMPOut (CFU/100 mL)	WMP278 (CFU/100 mL)	WMPWet (CFU/100 mL)
6/12/2018	184.0	10.0	1071.0	100.5
6/26/2018	12098.0	31.5	1141.0	1240.5
7/10/2018	12098.0	120.5	358.5	493.5
7/23/2018	1860.0	94.5	281.5	144.0
8/7/2018	1093.5	26.0	363.5	291.5
8/21/2018	19863.0	91.5	618.0	1377.5
9/4/2018	359.0	80.5	835.0	2737.5
9/18/2018	12098.0	129.5	835.0	7068.0
10/2/2018	14136.0	172.5	959.0	2586.0
10/16/2018	934.0	60.5	290.5	994.5
Average	7472.4	81.7	757.0	2460.4

*CFU/100 mL = colony forming units per 100 mL of sampled water

Fecal Coliform Removal Efficiency of Walmart Detention Pond

Sampling Date	WMPIn (CFU/100 mL)*	WMPOut (CFU/100 mL)	WMPIn – WMPOut (CFU/100 mL)	PERCENT DECREASE
6/12/2018	184.0	10.0	174.0	94.6
6/26/2018	12098.0	31.5	12066.5	99.7
7/10/2018	12098.0	120.5	11977.5	99.0
7/23/2018	1860.0	94.5	1765.5	94.9
8/7/2018	1093.5	26.0	1067.5	97.6
8/21/2018	19863.0	91.5	19771.5	99.5
9/4/2018	359.0	80.5	278.5	77.6
9/18/2018	12098.0	129.5	11968.5	98.9
10/2/2018	14136.0	172.5	13963.5	98.8
10/16/2018	934.0	60.5	873.5	93.5
Average	7472.4	81.7	7390.7	95.4

*CFU/100 mL = colony forming units per 100 mL of sampled water

Summary

In 2018, personnel from Beaufort County's Stormwater Department and the University of South Carolina Beaufort's Water Quality Lab collected and analyzed water for fecal coliform bacteria at four locations at or adjacent to a recently-constructed Walmart Supercenter and Sam's Club. The effort spanned 5 months and consisted of ten separate sampling events, the purpose of which was to estimate the efficiency with which Walmart's wet detention pond reduced fecal coliform concentrations in water largely originating from impervious parking surfaces. On 9 of 10 sampling occasions, the bacterial concentration was reduced by $> 90\%$, with an average for all sampling events a remarkable 95.4%. This percent decrease was arrived at by simply comparing bacterial concentrations in water entering the wet detention pond (WMPIn) to those in water exiting the pond (WMPOut) on the same day. As the duration of water detention is unknown, such a comparison of bacterial concentrations on any given day is potentially misleading. Rather, the focus should be on the consistency with which substantial reductions were measured over the entire project period. It is noteworthy that a considerable amount of water that ultimately flows under Highway 278 toward the Colleton River never enters the detention pond. As might be expected, this water contains a considerably higher concentration of fecal coliform bacteria (see WMPWet) than does that exiting the BMP. Lastly, the sampling point known as WMP278 is located so as to receive both water that exits the detention pond and altogether bypasses it. Clearly, water at this location is elevated in fecal coliform bacteria relative to that at WMPOut, but is well below that sampled "upstream" at WMPWet. This may be due to the dilutional effect of BMP-treated water on water of higher bacterial content flowing northward. Based on the data presented herein, the Walmart detention pond appears to be extremely effective at removing fecal coliform bacteria from impervious runoff, ultimately reducing the amount of bacteria entering waterbodies to the north.



Beaufort County

Post Office Drawer 1228
Beaufort, SC 29901-1228
PH (843) 255-2350 FX (843) 255-9437

Federal Tax ID # 57-6000311
Accounts Payable

A-K (843) 255-2293
L-Z (843) 255-2294
Fax (843) 255-9422

Purchase Order

Fiscal Year 2019 Page 1 of 1

THIS NUMBER MUST APPEAR ON ALL INVOICES, PACKAGES AND SHIPPING PAPERS.

Purchase Order # **20190164-00**

Delivery must be made within doors of specified destination.

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ENG
BEAUFORT COUNTY ENGINEERING
INDUSTRIAL VILLAGE ROAD # 3
BEAUFORT SC 29906

V
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THE GREENERY INC.
960 WILLIAM HILTON PARKWAY
HILTON HEAD IS SC 29928

S
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BEAUFORT COUNTY ENGINEERING
INDUSTRIAL VILLAGE ROAD # 3
BEAUFORT SC 29906

Vendor Phone Number		Vendor Fax Number		Requisition Number		Delivery Reference	
				190127		843-255-2692	
Date Ordered	Vendor Number	Date Required	Freight Method/Terms		Department/Location		
07/17/2018	683				ENGINEERING		
Item#	Description/Part No.			Qty	UOM	Unit Price	Extended Price
	The Above Purchase Order Number Must Appear On All Correspondence - Packing Sheets And Bills Of Lading						
	Street Sweeping of 170/46-RO 2						
1	Monthly Maintenance Street Sweeping of BC 170-46 Dec 2017 - June 2018			1.0	EACH	\$11,525.000	\$11,525.00
	***** GL SUMMARY *****						
	2342001T - 51160						11,525.00

By *D. L. Horn*
Purchasing Director

PURCHASING COPY

PO Total

\$11,525.00



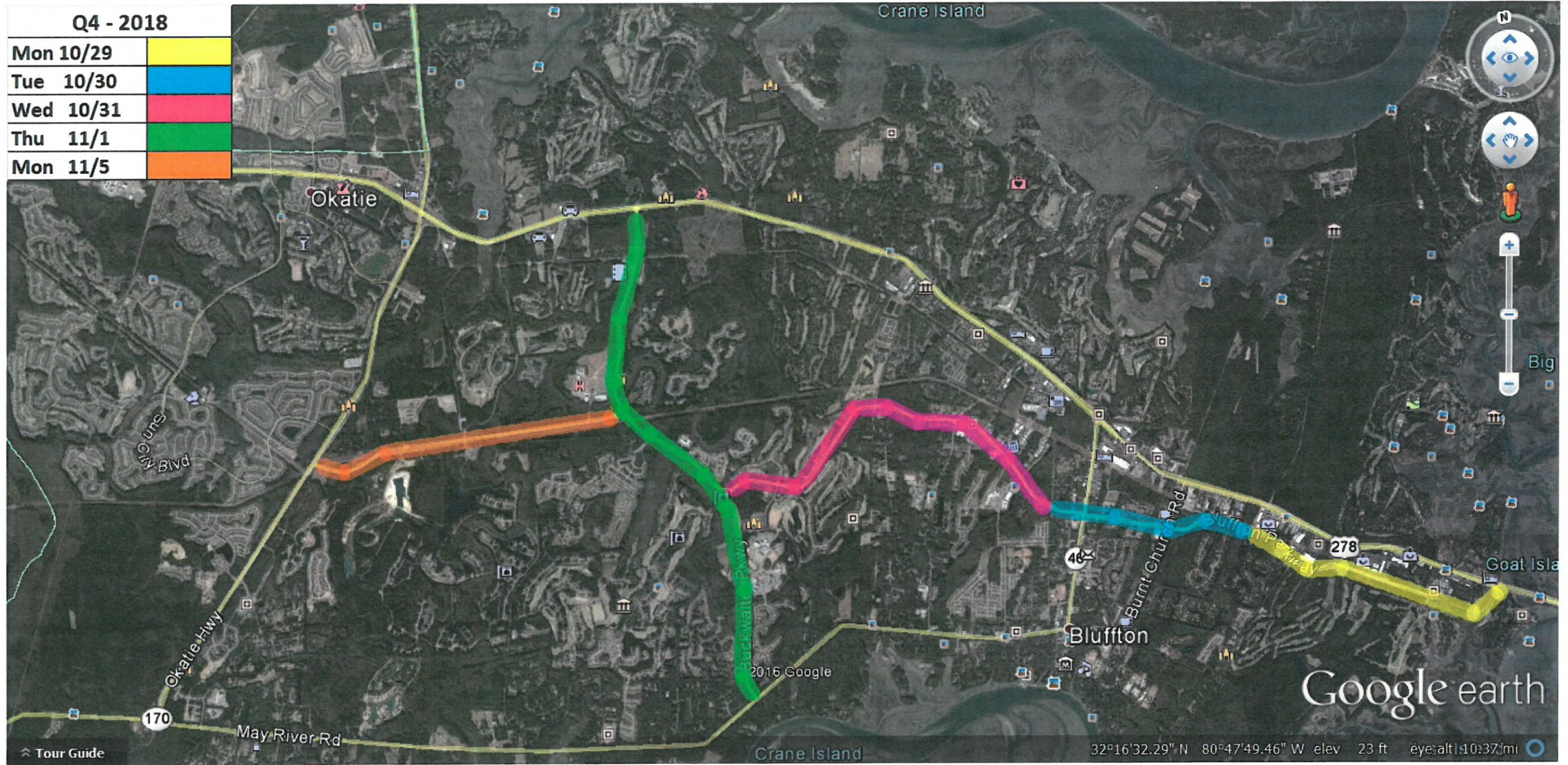
Beaufort County

Sweeping Options in Bluffton

Sweeping Location	Route Detail	Option 1		Option 2		Option 3	
		Monthly Visit 12 Visits per Year	Annual Fee	Bi-Monthly Visit 6 Visits per Year	Annual Fee	Quarterly Visit 4 Visits per Year	Annual Fee
Bluffton Parkway	From Okatie Hwy (170) to Buckingham Plantation Drive	\$1,380.00	\$16,560.00	\$1,500.00	\$9,000.00	\$1,695.00	\$6,780.00
	From Buckingham Plantation Drive to US 278 (includes flyovers)	\$300.00	\$3,600.00	\$340.00	\$2,040.00	\$380.00	\$1,520.00
Total Bluffton Pkwy	From SC170 to HWY 278	\$1,680.00	\$20,160.00	\$1,840.00	\$11,040.00	\$2,075.00	\$8,300.00
Buckwalter Parkway	From May River Rd (Rte 46) to Fording Island Rd (Hwy 278)	\$600.00	\$7,200.00	\$675.00	\$4,050.00	\$795.00	\$3,180.00
Hwy 278 - Partial	From Okatie Hwy (170) interchange to Hampton Parkway	\$255.00	\$3,060.00	\$300.00	\$1,800.00	\$320.00	\$1,280.00
Hwy 170 - Partial 1	From Hwy 278 (aka McGarvey's Corner) to Bluffton Pkwy	\$557.00	\$6,684.00	\$595.00	\$3,570.00	\$625.00	\$2,500.00
Hwy 170 - Partial 2	From Bluffton Pkwy to Roundabout at SC 46	\$668.00	\$8,016.00	\$695.00	\$4,170.00	\$750.00	\$3,000.00
TOTAL FEE:		\$3,760.00	\$45,120.00	\$4,105.00	\$24,630.00	\$4,565.00	\$18,260.00

Updated 12-28-16

Q4 - 2018	
Mon 10/29	
Tue 10/30	
Wed 10/31	
Thu 11/1	
Mon 11/5	



BEAUFORT COUNTY MS4 INVENTORY INSPECTION 12/01/2017 TO 12/01/2018

Access Pipe	826
Bleeder Pipe	51
Channel	0
Channel (fka Outfall)	166
Channel (Outfall)	0
Channel Pipe	445
Crossline Pipe	1458
Driveway Pipe	5221
Lateral	11
Lateral Pipe	67
Road Pipe	101
Roadside	310
Roadside Pipe	426
River/Creek/Marsh BANK	38
Creek/Stream	3
Blank	9

9132

Fair	3743
Good	1164
Poor	3510
Blank	715

9132

PROJECT	TYPE	MATERIAL	Diameter	EDITOR	Condition
	River/Creek/Marsh BANK			barryr	
	River/Creek/Marsh BANK			barryr	
	River/Creek/Marsh BANK			barryr	
	River/Creek/Marsh BANK			barryr	
	Channel (fka Outfall)			barryr	
	Roadside Pipe			barryr	
	Channel (fka Outfall)			barryr	
2004-49	Channel (fka Outfall)			barryr	
2012-500	Crossline Pipe	RCP	15	barryr	Fair
	Roadside			barryr	
	Roadside Pipe			barryr	
	Channel (fka Outfall)			barryr	
	Channel (fka Outfall)			barryr	
	Channel (fka Outfall)			barryr	
	Channel Pipe			barryr	
2010-041	Roadside Pipe	RCP	15	barryr	Fair
	Crossline Pipe	Concrete	36"	barryr	Fair
	Channel (fka Outfall)			barryr	
	Channel (fka Outfall)			barryr	
	Channel (fka Outfall)			barryr	
2011-531	Roadside			barryr	
2011-531	Roadside			barryr	
2011-574	Roadside			barryr	
	Channel (fka Outfall)	HDPE	18	barryr	
2011-531	Roadside			barryr	
2003-93	Channel (fka Outfall)			barryr	
	Roadside			barryr	
2011-574	Access Pipe	RCP	15"	barryr	Good
2011-574	Crossline Pipe	RCP	15"	barryr	Poor
	Channel (fka Outfall)			barryr	
	Channel (fka Outfall)			barryr	
	Channel Pipe			barryr	
	Channel (fka Outfall)			barryr	
	Lateral			barryr	
	Lateral			barryr	
2011-574	Driveway Pipe	RCP	15"	barryr	Fair
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Channel (fka Outfall)			barryr	
	River/Creek/Marsh BANK			barryr	
	River/Creek/Marsh BANK			barryr	
2010-023	Access Pipe	RCP	15	barryr	Poor
2009-109	Channel Pipe	HDPE	24	barryr	Fair
	Channel (fka Outfall)			barryr	
	Roadside			barryr	
	River/Creek/Marsh BANK			barryr	
	River/Creek/Marsh BANK			barryr	
	Channel (fka Outfall)			barryr	
	Roadside			barryr	
	Crossline Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	48	barryr	
	River/Creek/Marsh BANK			barryr	
	River/Creek/Marsh BANK			barryr	
	River/Creek/Marsh BANK			barryr	
	Channel (fka Outfall)			barryr	
	Roadside			barryr	
	Channel (fka Outfall)			barryr	
	Channel (fka Outfall)			barryr	
	River/Creek/Marsh BANK			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Crossline Pipe	RCP	48	barryr	
	Crossline Pipe	RCP	48	barryr	

	Channel (fka Outfall)			barryr	
	Roadside			barryr	
	River/Creek/Marsh BANK			barryr	
	Roadside			barryr	
	River/Creek/Marsh BANK			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	River/Creek/Marsh BANK			barryr	
	River/Creek/Marsh BANK			barryr	
	River/Creek/Marsh BANK			barryr	
	River/Creek/Marsh BANK			barryr	
2011-596	Driveway Pipe	RCP	15"	barryr	Fair
	Roadside			barryr	
	Roadside			barryr	
2011-596	Access Pipe	RCP	12"	barryr	Poor
	Crossline Pipe	RCP	30	barryr	
	River/Creek/Marsh BANK			barryr	
	Roadside			barryr	
	Driveway Pipe			barryr	
	Driveway Pipe			barryr	
	Driveway Pipe			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Driveway Pipe	RCP		barryr	Fair
2016-625	Crossline Pipe	RCP	15	barryr	Fair
	Roadside			barryr	
	Channel (fka Outfall)			barryr	
2004-54	Channel (fka Outfall)			Esri_Anonymous	
2014-606	Access Pipe	RCP	18"		Fair
	Channel (fka Outfall)			barryr	
	Crossline Pipe			barryr	
	Driveway Pipe			barryr	
2004-49	Access Pipe			barryr	
RM	Roadside			barryr	
	Crossline Pipe			barryr	
2017-509	Driveway Pipe	RCP	24	barryr	Fair
RM	Crossline Pipe	Concrete	24"	barryr	Fair
2010-256	Channel Pipe	HDPE	24	barryr	Fair
	Channel (fka Outfall)			barryr	
	Roadside Pipe			barryr	
	Driveway Pipe			Esri_Anonymous	
	Driveway Pipe	RCP	15ГÇ¥	BFT\stanbery	Poor
	Driveway Pipe	RCP	15ГÇ¥	BFT\stanbery	Poor
	Driveway Pipe	RCP	15ГÇ¥	BFT\stanbery	Poor
	Driveway Pipe			Esri_Anonymous	
	Roadside			Esri_Anonymous	
2008-191	Crossline Pipe	RCP	18ГÇ¥	BFT\stanbery	Poor
	Roadside			barryr	
	Channel (fka Outfall)			Esri_Anonymous	
	Driveway Pipe			Esri_Anonymous	
	Channel (fka Outfall)			BFT\stanbery	Fair
	Crossline Pipe	RCP	18"	BFT\stanbery	Fair
2018-516	Channel Pipe	HDPE	18	Stanbery	
	Crossline Pipe	RCP	18ГÇ¥ ?	BFT\stanbery	Poor
	Crossline Pipe	RCP	18ГÇ¥	BFT\stanbery	Good
	Crossline Pipe			Esri_Anonymous	
	Roadside			barryr	
11-309C	Driveway Pipe	RCP	15"	barryr	Poor
	Roadside			Esri_Anonymous	
	Channel (fka Outfall)			Esri_Anonymous	
	Access Pipe	RCP	15ГÇ¥	BFT\stanbery	Poor

2013-684	Crossline Pipe	RCP	15"		Poor
	Crossline Pipe	RCP	18ΓÇ¥		Fair
	Roadside Pipe	RCP	15ΓÇ¥		Fair
	Crossline Pipe	RCP	15ΓÇ¥		Fair
	Channel (fka Outfall)			barryr	
	River/Creek/Marsh BANK			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Bleeder Pipe			barryr	
2013-681	Channel Pipe	RCP	18x30	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Roadside			barryr	
2013-606	Access Pipe	RCP	15"	barryr	Poor
2013-606	Driveway Pipe	RCP	15"	barryr	Fair
	Channel (fka Outfall)			barryr	
RM	Channel (fka Outfall)			barryr	
	Channel (fka Outfall)			Esri_Anonymous	
RM	Channel (fka Outfall)			BFT\stanbery	Fair
	Roadside			barryr	
2014-596	Driveway Pipe	RCP	12"	barryr	Fair
2014-596	Driveway Pipe	RCP	15"	barryr	Fair
2014-596	Driveway Pipe	RCP	15"	barryr	Fair
2010-074	Bleeder Pipe	HDPE	15"	barryr	Fair
RM	Channel (fka Outfall)			barryr	
RM	Channel (fka Outfall)			barryr	
2014-596	Crossline Pipe			barryr	Fair
2014-596	Driveway Pipe	RCP	15"	barryr	Fair
	Roadside			barryr	
2014-596	Driveway Pipe	RCP	15"	barryr	Fair
2006-16	Access Pipe	HDPE	24ΓÇ¥	Esri_Anonymous	Good
2006-16	Channel Pipe	HDPE	32ΓÇ¥	BFT\stanbery	Fair
	Channel (fka Outfall)			Esri_Anonymous	
RM	Channel (fka Outfall)			barryr	
RM	Channel (fka Outfall)			barryr	
2003-27	Channel Pipe	Corrugated Metal	36ΓÇ¥	BFT\stanbery	Poor
2010-128	Driveway Pipe	RCP	15	Esri_Anonymous	Fair
2004-71	Roadside			Esri_Anonymous	
	Driveway Pipe	Concrete	15"	Esri_Anonymous	Fair
2004-71	Roadside			Esri_Anonymous	
2004-71	Roadside			Esri_Anonymous	
11-308B	Driveway Pipe	RCP	18	BFT\stanbery	Fair
11-308B	Crossline Pipe	RCP	18	BFT\stanbery	Fair
11-308B	Driveway Pipe	RCP	18	BFT\stanbery	Fair
	Channel Pipe	RCP	18	Esri_Anonymous	
	Channel Pipe	RCP	24	Esri_Anonymous	
	Channel Pipe	RCP	18	Esri_Anonymous	
	Roadside			BARRYR	
	Crossline Pipe	RCP	18	Esri_Anonymous	Fair
2010-068	Crossline Pipe			Esri_Anonymous	
Needs cleaned	Crossline Pipe	RCP	18"	BFT\stanbery	Poor
	Crossline Pipe	RCP	48	Esri_Anonymous	
RM	Channel (fka Outfall)			barryr	
RM	Bleeder Pipe			barryr	
	Channel Pipe	RCP	15	barryr	
2011-307	Driveway Pipe	RCP	15"	barryr	Fair
2010-244	Driveway Pipe	RCP	12	barryr	
2004-63	Roadside			barryr	
2004-63	Roadside			barryr	
2004-63	Roadside			barryr	
	Bleeder Pipe			barryr	
2010-089	Access Pipe	RCP	36	barryr	Fair
2010-089	Access Pipe	RCP	36	barryr	Fair
	Roadside			BARRYR	
	Channel Pipe	RCP	24	Esri_Anonymous	
2006-16	Roadside Pipe	HDPE	32ΓÇ¥	BFT\stanbery	Fair
	Crossline Pipe	RCP	18ΓÇ¥	BFT\stanbery	Poor

	Crossline Pipe	RCP	15	Esri_Anonymous	
	Crossline Pipe	RCP	24	Esri_Anonymous	
	River/Creek/Marsh BANK			barryr	
	Channel (fka Outfall)			barryr	
	Channel (fka Outfall)			barryr	
	Crossline Pipe			barryr	
	Channel (fka Outfall)			barryr	
	Roadside			barryr	
	Channel (fka Outfall)			barryr	
	Channel (fka Outfall)			barryr	
2011-530	Crossline Pipe			Esri_Anonymous	
	Roadside			Esri_Anonymous	
11-306B	Driveway Pipe	RCP	12	Esri_Anonymous	
2003-07	Roadside			Esri_Anonymous	
	Roadside			Esri_Anonymous	
RM	Channel (fka Outfall)			Esri_Anonymous	
	Crossline Pipe	RCP		BFT\stanbery	Fair
	Crossline Pipe	RCP	18ГÇŸ	BFT\stanbery	Good
	River/Creek/Marsh BANK			barryr	
	Channel (fka Outfall)			barryr	
	River/Creek/Marsh BANK			barryr	
	Channel (fka Outfall)			barryr	
	River/Creek/Marsh BANK			barryr	
	Channel (fka Outfall)			barryr	
	Roadside Pipe			Esri_Anonymous	
	Crossline Pipe	RCP	48	Esri_Anonymous	
	Channel Pipe	RCP	48	Esri_Anonymous	
	Channel Pipe	RCP	48	Esri_Anonymous	
	Roadside Pipe	RCP	18	Esri_Anonymous	
	Crossline Pipe	RCP	15ГÇŸ	BFT\stanbery	Poor
	Roadside			BARRYR	
	Channel (fka Outfall)			barryr	
	Driveway Pipe	RCP	18"	Esri_Anonymous	Fair
	River/Creek/Marsh BANK			barryr	
	Roadside			barryr	
	Roadside			barryr	
2004-54	Channel Pipe	RCP	15"	barryr	Fair
2004-95	Channel (fka Outfall)			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
RM	Channel (fka Outfall)			barryr	
	Access Pipe			barryr	
	Bleeder Pipe			barryr	
	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15ГÇŸ	BFT\stanbery	Poor
	Driveway Pipe			Esri_Anonymous	
	Crossline Pipe	RCP	30ГÇŸ	BFT\stanbery	Fair
	Driveway Pipe			Esri_Anonymous	
	Crossline Pipe	RCP	15	Esri_Anonymous	
2010-057	Crossline Pipe			Esri_Anonymous	
	Crossline Pipe	RCP	15ГÇŸ	BFT\stanbery	Poor
2003-95	Roadside			Esri_Anonymous	
2003-95	Roadside			Esri_Anonymous	
2004-71	Roadside			Esri_Anonymous	
2003-43	Crossline Pipe	RCP	60ГÇŸ	BFT\stanbery	Good
	Crossline Pipe	RCP	24ГÇŸ	BFT\stanbery	Fair
2003-95	Roadside			Esri_Anonymous	
	Crossline Pipe			Esri_Anonymous	
	Crossline Pipe	RCP	18	BFT\stanbery	Fair
2003-43	Crossline Pipe	RCP	48ГÇŸ	BFT\stanbery	Good
2002-25	Roadside Pipe	RCP	36ГÇŸ	BFT\stanbery	Good
	Channel Pipe	HDPE	24ГÇŸ	BFT\stanbery	Fair
	Crossline Pipe	RCP	24ГÇŸ	BFT\stanbery	Fair
	Crossline Pipe	RCP	18ГÇŸ	BFT\stanbery	Fair
	Crossline Pipe	RCP	32ГÇŸ	BFT\stanbery	Good

2017-538	Driveway Pipe	RCP	12	Stanbery	Good
	Channel (fka Outfall)			barryr	
2004-73	Roadside			barryr	
	Driveway Pipe	Concrete	15"	barryr	Fair
	Channel (fka Outfall)			barryr	
	Channel (fka Outfall)			barryr	
	Crossline Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Roadside			barryr	
	River/Creek/Marsh BANK			barryr	
	River/Creek/Marsh BANK			barryr	
2003-95	Roadside			barryr	
	Crossline Pipe	Concrete	15"	barryr	Fair
	Crossline Pipe	Concrete	36	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
2003-95	Driveway Pipe			barryr	
2003-95	Driveway Pipe			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Driveway Pipe			barryr	
	Driveway Pipe			barryr	
	Channel (fka Outfall)			barryr	
	Lateral			barryr	
	Channel (fka Outfall)			barryr	
	Crossline Pipe	Corrugated Metal	18ГÇŸ	BFT\stanbery	Poor
	Crossline Pipe	RCP	15ГÇŸ	BFT\stanbery	Poor
11-309C	Driveway Pipe	RCP	15"	barryr	Poor
	Crossline Pipe	RCP	18ГÇŸ	BFT\stanbery	Fair
	Driveway Pipe	RCP	15ГÇŸ	BFT\stanbery	Fair
	Roadside			BARRYR	
	Crossline Pipe	RCP	15	Esri_Anonymous	
	Roadside			Esri_Anonymous	
	Channel (fka Outfall)			Esri_Anonymous	
	Roadside			Esri_Anonymous	
	Roadside			Esri_Anonymous	
	Roadside			Esri_Anonymous	
	Channel Pipe	RCP	48	Esri_Anonymous	
	Channel Pipe	RCP	48	Esri_Anonymous	
	Access Pipe	RCP	15ГÇŸ	BFT\stanbery	Fair
	Roadside			Esri_Anonymous	
	Crossline Pipe	RCP	18ГÇŸ	BFT\stanbery	Fair
	Driveway Pipe	RCP	15ГÇŸ	BFT\stanbery	Fair
	Driveway Pipe	RCP	15ГÇŸ	BFT\stanbery	Fair
	Driveway Pipe	RCP	15ГÇŸ	BFT\stanbery	Fair
11-307A	Roadside Pipe	RCP	15ГÇŸ	BFT\stanbery	Poor
	Driveway Pipe	RCP	15ГÇŸ	BFT\stanbery	Fair
	Driveway Pipe	RCP	15ГÇŸ	BFT\stanbery	Fair
	Driveway Pipe	RCP	15ГÇŸ	BFT\stanbery	Fair
	Channel (fka Outfall)			Esri_Anonymous	
	Crossline Pipe	RCP	18ГÇŸ	BFT\stanbery	Fair
2003-43	Channel Pipe	RCP	60ГÇŸ	barryr	Good
RM	Crossline Pipe			barryr	
	Roadside			barryr	
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Roadside			barryr	
	Crossline Pipe			barryr	
	Driveway Pipe	RCP	12"	barryr	Fair
	Driveway Pipe			barryr	
	Driveway Pipe			barryr	
	Crossline Pipe			barryr	
	Driveway Pipe			barryr	
	Roadside			barryr	
2013-558A	Driveway Pipe	HDPE	10"	Esri_Anonymous	Poor
2003-43	Roadside Pipe	RCP	24ГÇŸ	BFT\stanbery	Poor
	Channel (fka Outfall)			Esri_Anonymous	
	Channel (fka Outfall)			Esri_Anonymous	

	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Crossline Pipe			barryr	
	Crossline Pipe	RCP	24	Esri_Anonymous	
	Crossline Pipe	RCP	24	Esri_Anonymous	
	Crossline Pipe	RCP	24	Esri_Anonymous	
	Channel (fka Outfall)			Esri_Anonymous	
2011-530	Channel Pipe	RCP		Esri_Anonymous	
RM	Channel Pipe	Corrugated Metal	34FÇ¥	BFT\stanbery	Poor
	Crossline Pipe			Esri_Anonymous	
2011-530	Roadside Pipe			Esri_Anonymous	
11-306B	Access Pipe	RCP	12	barryr	
	Channel Pipe			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	River/Creek/Marsh BANK			barryr	
	Roadside			barryr	
	Channel (fka Outfall)			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			Esri_Anonymous	
	Driveway Pipe			Esri_Anonymous	
11-309C	Driveway Pipe	RCP	18	Esri_Anonymous	Fair
RM	Access Pipe	RCP	15FÇ¥	BFT\stanbery	Poor
	Roadside			Esri_Anonymous	
	Channel (fka Outfall)			barryr	
	Driveway Pipe			barryr	
	River/Creek/Marsh BANK			barryr	
	Crossline Pipe	RCP	18	barryr	
	Crossline Pipe			barryr	
2002-24	Crossline Pipe	RCP	72FÇ¥	barryr	Good
2003-43	Roadside Pipe	RCP	36FÇ¥	barryr	Good
2002-25	Roadside Pipe	RCP	24FÇ¥	barryr	Good
2003-43	Crossline Pipe	RCP	18FÇ¥	barryr	Poor
2003-91	Channel Pipe	RCP	48FÇ¥	BFT\stanbery	Good
	Channel (fka Outfall)			Stanbery	Poor
	Driveway Pipe	HDPE	15FÇ¥	BFT\stanbery	Fair
	Crossline Pipe	Corrugated Metal	48FÇ¥	BFT\stanbery	Fair
	Bleeder Pipe	Corrugated Metal		BFT\stanbery	Poor
	Driveway Pipe	RCP	15FÇ¥	BFT\stanbery	Fair
	Driveway Pipe	RCP	15FÇ¥	BFT\stanbery	Poor
	Crossline Pipe	RCP	30FÇ¥	BFT\stanbery	Fair
	Crossline Pipe	RCP	30FÇ¥	BFT\stanbery	Fair
	Crossline Pipe	RCP	15FÇ¥	BFT\stanbery	Poor
	Crossline Pipe	RCP	18FÇ¥	BFT\stanbery	Fair
	Crossline Pipe	RCP	15	BFT\stanbery	Poor
	Lateral			barryr	
	Bleeder Pipe	IRON	16.5	barryr	
	Roadside			barryr	
	Roadside			barryr	
	Crossline Pipe	RCP	24FÇ¥	barryr	Fair
	Crossline Pipe	RCP	24FÇ¥	barryr	Fair
	Roadside			barryr	
	Roadside			barryr	
	Crossline Pipe			barryr	
	Roadside			barryr	
	Crossline Pipe			barryr	
11-309C	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	18FÇ¥		Fair
	Driveway Pipe	RCP	15FÇ¥	BFT\stanbery	Fair
	Roadside			Esri_Anonymous	
11-309C	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	24FÇ¥	BFT\stanbery	Fair
	Channel Pipe	Corrugated Metal	24	barryr	

	Channel (fka Outfall)			barryr	
	Channel (fka Outfall)			barryr	
	Roadside			barryr	
	Roadside			barryr	
	River/Creek/Marsh BANK			barryr	
	Channel (fka Outfall)			barryr	
	Crossline Pipe	RCP	18	barryr	
	Crossline Pipe	Corrugated Metal	114	barryr	
	Channel Pipe	RCP	30	barryr	
	Crossline Pipe	RCP	24fç¥	BFT\stanbery	Fair
	Crossline Pipe			barryr	
	Roadside			barryr	
	Bleeder Pipe	IRON	16.5	barryr	
	Channel (fka Outfall)			barryr	
	Driveway Pipe	RCP	15	barryr	
	Driveway Pipe	RCP	15	barryr	
	Driveway Pipe	RCP	15	barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Channel (fka Outfall)			barryr	
	Driveway Pipe			barryr	
	Access Pipe	RCP	15fç¥		Fair
	Crossline Pipe	RCP	30fç¥	BFT\stanbery	Poor
	Channel (fka Outfall)			barryr	
	Roadside			barryr	
	River/Creek/Marsh BANK			barryr	
2007-58	Roadside Pipe	Aluminum	16"	barryr	Fair
	Driveway Pipe			barryr	
	Channel (fka Outfall)			barryr	
	Channel Pipe	RCP	18	barryr	
	Channel (fka Outfall)			barryr	
	Channel (fka Outfall)			barryr	
	Channel Pipe	RCP	12	barryr	
	Channel Pipe	RCP	12	barryr	
	Channel (fka Outfall)			barryr	
	Channel (fka Outfall)			barryr	
Rivers End S/D	Roadside Pipe	RCP	15	barryr	
	Roadside			barryr	
	Roadside			barryr	
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP		barryr	Fair
	Roadside			barryr	
	Roadside			barryr	
2011-031	Access Pipe	RCP	15fç¥	BFT\stanbery	Fair
	Roadside			Esri_Anonymous	
	River/Creek/Marsh BANK			barryr	
	River/Creek/Marsh BANK			barryr	
	Roadside			barryr	
	Roadside			barryr	
	River/Creek/Marsh BANK			barryr	
	Channel (fka Outfall)			barryr	
	River/Creek/Marsh BANK			barryr	
	Channel (fka Outfall)			Esri_Anonymous	
	Channel (fka Outfall)			Esri_Anonymous	
	Roadside			BARRYR	
	Channel (fka Outfall)			Esri_Anonymous	
	Roadside			Esri_Anonymous	
	Channel (fka Outfall)				Fair
	Channel (fka Outfall)				Fair
	Roadside			BARRYR	
	Roadside			BARRYR	
	Roadside			BARRYR	
	Roadside			Esri_Anonymous	
	Roadside			BARRYR	
	Roadside			Esri_Anonymous	

	Channel (fka Outfall)				Poor
2003-43	Channel Pipe	RCP	48ГÇŸ	BFT\stanbery	Good
RM	Channel (fka Outfall)			Esri_Anonymous	
2013-527	Driveway Pipe	RCP	15ГÇŸ		Poor
	Channel (fka Outfall)			barryr	
2009-091	Crossline Pipe	RCP	15	barryr	Fair
2009-085	Crossline Pipe	RCP	15	barryr	Fair
2003-047	Bleeder Pipe	HDPE	12	barryr	
	Channel (fka Outfall)			barryr	
	Channel (fka Outfall)			barryr	
	River/Creek/Marsh BANK			barryr	
	River/Creek/Marsh BANK			barryr	
2004-71	Roadside			barryr	
	Roadside			barryr	
2014-606	Driveway Pipe	RCP	24"		Good
	Roadside Pipe	RCP	18ГÇŸ		Fair
	Crossline Pipe	RCP	24ГÇŸ		Fair
	Crossline Pipe	RCP	24ГÇŸ		Fair
	Crossline Pipe	RCP	36ГÇŸ wide	Stanbery	Fair
	Channel Pipe	Concrete	18"	Stanbery	Fair
	Channel Pipe	RCP	18"	Stanbery	Fair
	Channel Pipe				Fair
	Channel Pipe	RCP	18"		Fair
	Roadside Pipe	RCP	18"		Fair
	Driveway Pipe	RCP	18"		Fair
	Crossline Pipe	RCP	15ГÇŸ		Fair
	Crossline Pipe	RCP	15ГÇŸ		Fair
	Roadside Pipe	RCP	18"		Fair
	Crossline Pipe	RCP	18"		Fair
	Channel Pipe	RCP	18"		Fair
	Channel Pipe	RCP	18"		Fair
	Crossline Pipe	RCP	18"		Fair
	Channel Pipe	RCP	18ГÇŸ		Fair
2015-549	Crossline Pipe	RCP	15	Esri_Anonymous	Poor
RM	Channel (fka Outfall)			Esri_Anonymous	
2011-031	Driveway Pipe	RCP	15ГÇŸ		Fair
	Channel (fka Outfall)			BFT\stanbery	Fair
	Crossline Pipe	RCP	15	barryr	
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	HDPE	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Access Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	HDPE	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Roadside			barryr	
	Roadside			barryr	
	Crossline Pipe	RCP	18	barryr	
	Roadside			barryr	
	Driveway Pipe	RCP	18	barryr	
	Driveway Pipe	RCP	15	barryr	
	Access Pipe	HDPE	12	barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
2016-548	Driveway Pipe	RCP	15	barryr	
	Roadside			barryr	
	Roadside			barryr	

	Roadside			barryr	
2016-568	Access Pipe	RCP		barryr	Fair
	Roadside			barryr	
2016-568	Access Pipe	RCP	15"	barryr	Poor
11-309C	Driveway Pipe	RCP	15"	barryr	Fair
	Roadside			barryr	
11-309C	Driveway Pipe	RCP	15"	barryr	Fair
	Roadside			barryr	
	Channel Pipe	Concrete	40"	barryr	Fair
	Crossline Pipe	Concrete	24"	barryr	Poor
	Crossline Pipe	RCP	18"	barryr	Poor
	Driveway Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	40"	barryr	Poor
	Driveway Pipe	Concrete	15	barryr	Fair
	Driveway Pipe	RCP	15	barryr	Fair
	Driveway Pipe	Concrete	15"	barryr	Fair
	Driveway Pipe	Concrete	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Poor
	Crossline Pipe	RCP	15"	barryr	Poor
	Roadside			barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	Concrete	16"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	Concrete	16"	barryr	Poor
	Driveway Pipe	Concrete	16"	barryr	Good
	Driveway Pipe	CPP	16"	barryr	Good
	Driveway Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	RCP	15"	barryr	Poor
	Crossline Pipe	Concrete	16"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Poor
	Crossline Pipe	RCP	24"	barryr	Fair
2016-548	Driveway Pipe	RCP	15	barryr	
2016-548	Crossline Pipe	RCP	18"	barryr	
	Roadside			barryr	
2016-548	Driveway Pipe	Aluminum		barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
2016-548	Driveway Pipe	RCP	15	barryr	
2016-548	Driveway Pipe			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
2016-548	Driveway Pipe	RCP	15	barryr	
2016-548	Driveway Pipe	RCP	15	barryr	
	Roadside			barryr	
2016-548	Driveway Pipe			barryr	
2016-548	Driveway Pipe	RCP	15	barryr	
2016-548	Driveway Pipe	RCP	15	barryr	
2016-548	Driveway Pipe			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
2016-548	Driveway Pipe			barryr	
2016-548	Driveway Pipe	RCP	15	barryr	
2016-548	Driveway Pipe	RCP	15	barryr	
2016-548	Driveway Pipe	RCP	12	barryr	
2016-548	Driveway Pipe	RCP	12	barryr	
2016-548	Driveway Pipe	RCP	12	barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
2016-548	Access Pipe			barryr	
	Access Pipe			barryr	
	Driveway Pipe			barryr	

	Driveway Pipe			barryr	
	Driveway Pipe			barryr	
	Driveway Pipe			barryr	
	Driveway Pipe			barryr	
	Crossline Pipe	Concrete	18"	barryr	Fair
2016-548	Driveway Pipe	RCP	15	barryr	
	Roadside			barryr	
2016-548	Driveway Pipe	RCP	15	barryr	
2016-548	Driveway Pipe			barryr	
2015-609	Bleeder Pipe	HDPE	12"	barryr	Good
2015-609	Bleeder Pipe	HDPE	12"	barryr	Good
2015-609	Bleeder Pipe	HDPE	12"	barryr	Good
RM	Channel (fka Outfall)			barryr	
2015-622	Access Pipe			barryr	
2015-020A	Channel (fka Outfall)			barryr	Fair
2015-548	Driveway Pipe			barryr	
	Channel Pipe	Concrete	30"	barryr	Fair
	Channel Pipe	Concrete	30"	Esri_Anonymous	Fair
	Crossline Pipe	Concrete	40"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Poor
	Channel			barryr	
	Channel			barryr	
	Crossline Pipe	Concrete	16"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Channel Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	Concrete	16"	barryr	Fair
	Crossline Pipe	Concrete	30"	barryr	Fair
	Crossline Pipe	Concrete	16"	barryr	Fair
	Crossline Pipe	Concrete		barryr	Fair
	Driveway Pipe	Concrete	16"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	Concrete	16"	barryr	Poor
	Roadside Pipe	Concrete	16"	barryr	Fair
	Channel			barryr	
	Channel			barryr	
2004-40	Channel (fka Outfall)			barryr	
2011-028	Access Pipe	HDPE	24	barryr	
	Crossline Pipe	RCP	24"	barryr	Poor
	Crossline Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Poor
	Crossline Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Poor
	Crossline Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Channel Pipe	HDPE	24"	barryr	Fair
	Channel Pipe	HDPE	24"	barryr	Fair
	Channel Pipe	HDPE	36"	barryr	Fair
	Crossline Pipe	Concrete	16"	barryr	Fair
	Crossline Pipe	Concrete	16"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Poor
	Crossline Pipe	Concrete	18"	barryr	Fair
	Road Pipe	Concrete	36" oval	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	24"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Channel Pipe	Concrete	24"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	24"	barryr	Fair
	Crossline Pipe	Concrete	24"	barryr	Fair

	Channel Pipe	Concrete	36"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	24"	barryr	Fair
	Channel (fka Outfall)			barryr	
	Crossline Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Roadside Pipe	HDPE	40"	barryr	Fair
	Channel (fka Outfall)			barryr	Fair
	Channel Pipe	Concrete	20"	barryr	Fair
	Channel (fka Outfall)			barryr	Fair
	Channel Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Channel Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Channel (fka Outfall)			barryr	Fair
	Crossline Pipe	Concrete	20"	barryr	Poor
Sc 802 widening	Crossline Pipe	Concrete	48"	barryr	Fair
Sc 802 widening	Crossline Pipe	Concrete	48"	barryr	Fair
	Crossline Pipe	Concrete	48"	barryr	Fair
	Channel Pipe	Concrete	24"	barryr	Fair
	Channel Pipe	Concrete	48"	barryr	Fair
	Channel Pipe	Concrete	20"	barryr	Fair
	Channel Pipe	Concrete	20"	barryr	Fair
SC 802 widening	Crossline Pipe	Concrete	18"	barryr	Fair
Sc802 widening	Crossline Pipe	Concrete	48"	barryr	Fair
	Channel Pipe	Concrete	24"	barryr	Fair
	Roadside Pipe	Concrete	48"-24"	barryr	Fair
	Roadside Pipe	Concrete	48"	barryr	Fair
	Crossline Pipe	Concrete	24"	barryr	Poor
	Channel Pipe	Concrete	20"	barryr	Fair
	Channel Pipe			barryr	
	Roadside			barryr	
	Channel (fka Outfall)			barryr	
	Channel (fka Outfall)			barryr	
	Driveway Pipe	HDPE	24"	barryr	Fair
	Crossline Pipe	Concrete	20"	barryr	Fair
	Channel			barryr	
	Channel			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Channel			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Channel (fka Outfall)			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Channel Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	Concrete	16"	BARRYR	Fair
	Crossline Pipe	Concrete	16"	BARRYR	Fair
	Crossline Pipe	Concrete	16"	BARRYR	Fair
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Channel (fka Outfall)			barryr	Fair
	Crossline Pipe	Concrete	40"	barryr	Fair
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Crossline Pipe	Concrete	24"	barryr	Poor

	Crossline Pipe	Concrete	24"	barryr	Poor
	Crossline Pipe	Concrete	24"	barryr	Fair
	Driveway Pipe	Concrete		barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Roadside Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Channel Pipe	RCP	18"	barryr	Fair
	Channel Pipe	HDPE	18"	barryr	Fair
	Channel Pipe	Concrete	60"	barryr	Fair
	Crossline Pipe	Concrete	16"	barryr	Fair
	Crossline Pipe	Concrete	16"	barryr	Poor
	Crossline Pipe		52"	barryr	Fair
	Channel (fka Outfall)			barryr	Fair
	Channel Pipe	HDPE	10"	barryr	Fair
	Roadside			barryr	Fair
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Crossline Pipe	Concrete	40"	barryr	Fair
	Crossline Pipe	Concrete	40"	barryr	Fair
	Channel Pipe	Concrete		barryr	Fair
	Channel (fka Outfall)			barryr	Fair
	Channel (fka Outfall)			barryr	Fair
	Channel (fka Outfall)			barryr	Fair
	Channel (fka Outfall)			barryr	Fair
	Crossline Pipe	Concrete	24"	barryr	Fair
	Crossline Pipe	Concrete	24"	barryr	Fair
	Crossline Pipe	Concrete	24"	barryr	Fair
	Channel (fka Outfall)			barryr	Fair
	Roadside			barryr	Fair
	Crossline Pipe	PVC	10"	barryr	Fair
	Crossline Pipe	Concrete	30"	barryr	Fair
	Channel Pipe	Steel	18"	barryr	Fair
	Channel Pipe	Corrugated Metal	18"	barryr	Fair
	Driveway Pipe	Concrete	16"	barryr	Fair
	Channel			barryr	
	Channel			barryr	
	Channel			barryr	
	Crossline Pipe	Concrete	36"	barryr	Fair
	Crossline Pipe	Concrete	36"	barryr	Fair
	Crossline Pipe	Concrete	36"	barryr	Fair
	Crossline Pipe	Concrete	36"	barryr	Fair
	Crossline Pipe	Concrete	36"	barryr	Fair
	Crossline Pipe	Concrete	36"	barryr	Fair
	Crossline Pipe	Concrete	36"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	Concrete	15"	barryr	Good
	Crossline Pipe	RCP	18"	barryr	Fair
	Channel Pipe	Concrete	16"	barryr	Fair
	Roadside			barryr	
	Roadside			barryr	
	Channel			barryr	
	Channel (fka Outfall)			barryr	

	Channel (fka Outfall)			barryr	
	Channel (fka Outfall)			barryr	
	Crossline Pipe	Concrete		barryr	Fair
	Crossline Pipe	Concrete	16"	barryr	Fair
	Crossline Pipe	Concrete	16"	barryr	Fair
	Creek/Stream			barryr	Fair
	Channel (fka Outfall)			barryr	Fair
	Driveway Pipe	Concrete	16"	barryr	Fair
				barryr	
	Channel (fka Outfall)			barryr	
	Channel (fka Outfall)			barryr	
				barryr	
				barryr	
				barryr	
				barryr	
				barryr	
				barryr	
				barryr	
DB722 PG1268	Crossline Pipe			barryr	
	Crossline Pipe	RCP	36"	barryr	Fair
	Channel Pipe	RCP	36"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Channel Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Channel Pipe	RCP	24"	barryr	Fair
	Road Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	30"	barryr	Fair
	Channel (fka Outfall)			barryr	Fair
	Crossline Pipe	CMP	48"	barryr	Fair
2016-584	Roadside Pipe	RCP	15	barryr	
2016-584	Driveway Pipe	RCP	15	barryr	
	Roadside			barryr	
	Crossline Pipe	RCP	18"	barryr	Fair
	Channel Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Channel Pipe	RCP	24"	barryr	Fair
	Channel (fka Outfall)			barryr	Fair
	Channel			barryr	Fair
	Roadside			barryr	Fair
	Driveway Pipe	Concrete	16"	barryr	Fair
	Roadside Pipe	Concrete	16"	barryr	Fair
2016-552	Crossline Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	16"	barryr	Fair
	Roadside Pipe	Concrete	16"	barryr	Fair
	Driveway Pipe	Concrete	16"	barryr	Fair
	Roadside Pipe	Concrete	16"	barryr	Fair
	Driveway Pipe	Concrete	16"	barryr	Fair
	Crossline Pipe	Concrete	16"	barryr	Poor
	Crossline Pipe	Concrete	16"	barryr	Poor
	Driveway Pipe	Concrete	16"	barryr	Fair
	Roadside Pipe	Concrete	18"	barryr	Fair
	Roadside Pipe	Concrete	16"	barryr	Fair
	Crossline Pipe	Concrete	16"	barryr	Fair
	Roadside Pipe	Concrete	16"	barryr	Fair
	Crossline Pipe	Concrete		barryr	Fair
	Channel Pipe	Concrete		barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Roadside Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	HDPE	36"	barryr	Poor
	Roadside			barryr	
	Channel			barryr	Fair
	Channel (fka Outfall)			barryr	
	Roadside			barryr	

	Roadside			barryr	
	Channel			barryr	
	Channel			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Channel (fka Outfall)				Fair
	Roadside Pipe	RCP	15FC	Stanbery	Good
	Channel Pipe	Concrete	24"	Stanbery	Fair
	Crossline Pipe	Concrete	24"	Stanbery	Fair
	Driveway Pipe	RCP	15	barryr	
2016-590	Driveway Pipe	RCP	15	barryr	
	Driveway Pipe	RCP	15	barryr	
	Driveway Pipe	RCP	15	barryr	
2016-590	Driveway Pipe	RCP	15	barryr	
2016-590	Driveway Pipe	RCP	15	barryr	
2016-590	Channel Pipe	RCP	15	barryr	
	Creek/Stream			barryr	
	Channel (fka Outfall)			barryr	
	Channel (fka Outfall)			barryr	
	Crossline Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	12"	barryr	Fair
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
2017-311	Channel Pipe	RCP	18	barryr	
2017-311	Channel Pipe	RCP	18	barryr	
2017-311	Driveway Pipe	RCP	15	barryr	Fair
2017-311	Crossline Pipe	RCP	15	barryr	
	Roadside			barryr	
2017-310	Driveway Pipe	RCP	15	barryr	
11-310A	Driveway Pipe	RCP	15	barryr	Fair
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Crossline Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	24"	barryr	Fair
	Crossline Pipe	Concrete	16"	barryr	Fair
	Roadside Pipe	Concrete	16"	barryr	Fair
	Crossline Pipe	Concrete		barryr	Fair
	Crossline Pipe	Concrete	24"	barryr	Fair
	Roadside			barryr	
2016-584	Driveway Pipe	RCP	15	barryr	Fair
	Roadside			barryr	
	Access Pipe			barryr	
2016-577	Roadside Pipe	HDPE	15	barryr	
	Crossline Pipe	RCP	18	barryr	
	Channel Pipe	RCP	15	barryr	
	Channel Pipe	RCP	15	barryr	
2017-509	Driveway Pipe	RCP	15	barryr	Fair
2017-509	Crossline Pipe	RCP	15	barryr	
	Crossline Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Poor
	Crossline Pipe	RCP	15"	barryr	Poor
	Crossline Pipe	RCP	15"	barryr	Fair
	Channel Pipe	Steel	24"	barryr	Fair
2016-604	Channel Pipe	HDPE	24	barryr	
	Crossline Pipe	HDPE	30"	barryr	Fair
	Roadside Pipe	HDPE	30"	barryr	Fair
	Crossline Pipe	HDPE	30"	barryr	Fair
	Channel Pipe	HDPE	30"	barryr	Fair
	Crossline Pipe	HDPE	30"	barryr	Fair
	Driveway Pipe	HDPE	30"	barryr	Fair
	Channel (fka Outfall)			barryr	
2016-550	Crossline Pipe	RCP	18"	barryr	Good
	Channel			barryr	

2016-550	Crossline Pipe	RCP	18"	barryr	Poor
	Crossline Pipe	RCP	24"	barryr	Good
	Channel (fka Outfall)			barryr	Good
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
2016-625	Driveway Pipe	HDPE	15	barryr	
2016-625	Driveway Pipe	HDPE	15	barryr	
2016-625	Driveway Pipe	RCP	15	barryr	
	Channel Pipe	Concrete	24"	barryr	Fair
	Crossline Pipe	Concrete	24"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	15"	barryr	Fair
	Crossline Pipe	Concrete	15"	barryr	Fair
	Channel Pipe	Concrete	15"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	24"	barryr	Fair
	Channel Pipe	Concrete	24"	barryr	Fair
	Channel Pipe	Concrete	15"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Channel Pipe	Concrete	24"	barryr	Fair
	Crossline Pipe	Concrete	24"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	24"	barryr	Fair
	Channel Pipe	Concrete	24"	barryr	Fair
	Channel Pipe	Concrete	24"	barryr	Fair
	Channel Pipe	Concrete	24"	barryr	Fair
	Channel Pipe	Concrete	24"	barryr	Fair
	Channel Pipe	Concrete	24"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	24"	barryr	Fair
	Roadside Pipe		36" oval	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Channel (fka Outfall)			barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe			barryr	
	Channel (fka Outfall)			barryr	Fair
2016-322	Channel Pipe	HDPE	15	barryr	
2016-307A	Crossline Pipe	RCP	15"	barryr	Fair
2011-543	Roadside			barryr	
2017-510	Driveway Pipe	RCP	12	barryr	
2017-508	Driveway Pipe	RCP	15	barryr	
	Driveway Pipe			barryr	
	Roadside			barryr	

	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
2017-506	Driveway Pipe	RCP	15	barryr	Good
	Roadside			barryr	
	Driveway Pipe	Concrete	15"	barryr	Poor
	Crossline Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Roadside Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	24"	barryr	Fair
	Roadside Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Road Pipe	Concrete	18"	barryr	Fair
	Roadside Pipe	Concrete	24"	barryr	Fair
	Channel Pipe	Concrete	24"	barryr	Fair
	Channel Pipe	Concrete	24"	barryr	Fair
	Road Pipe	Concrete	36"	barryr	Fair
	Crossline Pipe	Concrete	24"	barryr	Fair
	Road Pipe	Concrete	24"	barryr	Fair
	Road Pipe	Concrete	24"	barryr	Fair
	Road Pipe	Concrete	36"	barryr	Fair
	Road Pipe	Concrete	36"	barryr	Fair
	Crossline Pipe	Concrete	36"	barryr	Fair
	Crossline Pipe	Concrete	36"	barryr	Fair
	Channel Pipe	Concrete	36"	barryr	Fair
	Channel Pipe	Concrete	36"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Road Pipe	Concrete	24"	barryr	Fair
	Road Pipe	Concrete	36"	barryr	Fair
	Road Pipe	Concrete	36"	barryr	Fair
	Road Pipe	Concrete	24"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	HDPE	18"	barryr	Fair
	Bleeder Pipe	Concrete	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Poor
	Crossline Pipe	RCP	15"	barryr	Poor
	Crossline Pipe	Concrete	15"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
	Crossline Pipe	Concrete	18"	barryr	Fair
	Channel Pipe	Concrete	18"	barryr	Fair
2017-002	Channel Pipe	HDPE	36	barryr	Good
	Driveway Pipe	HDPE	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Access Pipe	RCP	15"	barryr	Fair
	Channel Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	RCP	15"	barryr	Fair
	Access Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
2016-008	Channel Pipe	RCP	30	barryr	
2016-008	Channel Pipe	RCP	30	barryr	
2016-008	Channel Pipe	RCP	30	barryr	

	Channel (fka Outfall)			barryr	
	Channel (fka Outfall)			barryr	
	Channel			barryr	
	Roadside			barryr	
2004-87	Roadside			barryr	
	Roadside			barryr	Fair
	Roadside Pipe	RCP	18	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Lateral Pipe	RCP	18"	barryr	Poor
	Channel Pipe	RCP	18"	barryr	Fair
	Channel Pipe	RCP	15"	barryr	Fair
	Channel Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	24"	barryr	Fair
	Lateral Pipe	RCP	18"	barryr	Fair
	Lateral Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Poor
	Lateral	RCP	18"	barryr	Fair
	Channel Pipe	RCP	18"	barryr	Fair
	Lateral	RCP	18"	barryr	Fair
	Crossline Pipe			barryr	
	Roadside Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Channel Pipe	RCP	18"	barryr	Fair
	Channel Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Poor
	Crossline Pipe	RCP	18"	barryr	Poor
	Roadside Pipe	RCP	30"	barryr	Fair
	Roadside Pipe	RCP	24"	barryr	Fair
	Roadside Pipe	RCP	30"	barryr	Fair
	Roadside Pipe	RCP	30"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Poor
	Lateral Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	30"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Poor
	Crossline Pipe	RCP	18"	barryr	Poor
	Channel Pipe	RCP	18"	barryr	Poor
	Roadside Pipe	RCP	18"	barryr	Fair
	Channel Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Channel Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	32"	barryr	Poor
	Roadside Pipe	RCP	18"	barryr	Fair
	Lateral	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Poor
	Lateral	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Channel Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Lateral	RCP	18"	barryr	Fair
	Lateral	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Channel Pipe	RCP	32"	barryr	Poor
	Lateral	RCP	18"	barryr	Fair
	Lateral Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	30"	barryr	Fair
	Roadside Pipe	RCP	30"	barryr	Fair
	Roadside Pipe	RCP	30"	barryr	Fair

	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	24"	barryr	Fair
Rivers End S/D	Driveway Pipe	RCP	15	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Channel Pipe	RCP	18"	barryr	Fair
	Channel Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Channel Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Channel Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Channel Pipe	RCP	24"	barryr	Fair
	Roadside Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Channel Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
Rivers End S/D	Driveway Pipe	RCP	15	barryr	Fair
Rivers End S/D	Driveway Pipe	RCP	15	barryr	Fair
Rivers End S/D	Driveway Pipe	RCP	15	barryr	Fair
Rivers End S/D	Driveway Pipe	RCP	15	barryr	Fair
Rivers End S/D	Driveway Pipe	RCP	15	barryr	Fair
	Roadside Pipe	RCP	24"	barryr	Fair
Rivers End S/D	Driveway Pipe	RCP	15	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Channel Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair

	Driveway Pipe	Corrugated Metal	15"	barryr	Poor
	Crossline Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Lateral Pipe	Corrugated Metal	15"	barryr	Fair
	Roadside Pipe	Corrugated Metal	15"	barryr	Fair
	Lateral Pipe	Corrugated Metal	15"	barryr	Fair
	Crossline Pipe	RCP	12"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	HDPE Perf Pipe	12"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	ADS Perferated	12"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Channel Pipe	RCP	18"	barryr	Fair
	Channel Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	ADS Perferated	18"	barryr	Fair
	Crossline Pipe	ADS Perferated	18"	barryr	Fair
	Channel Pipe	ADS Perferated	18"	barryr	Fair
	Driveway Pipe	RCP	12"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	12"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	12"	barryr	Fair
	Driveway Pipe	RCP	12"	barryr	Fair
2017-526	Access Pipe	HDPE	18	barryr	Good
	Driveway Pipe	RCP	12"	barryr	Fair
	Driveway Pipe	RCP	12"	barryr	Fair
	Driveway Pipe	RCP	12"	barryr	Fair
	Driveway Pipe	RCP	12"	barryr	Fair
	Driveway Pipe	RCP	12"	barryr	Fair
	Driveway Pipe	HDPE Perf Pipe	10"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair

	Driveway Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Lateral Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	32"	barryr	Fair
	Channel Pipe	RCP	32"	barryr	Fair
	Channel Pipe	RCP	24"	barryr	Fair
	Channel Pipe	RCP	32"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	12"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	Aluminum	15"	barryr	Fair
	Driveway Pipe	Aluminum	15"	barryr	Fair
	Driveway Pipe	Aluminum	15"	barryr	Fair
	Driveway Pipe	Aluminum	15"	barryr	Fair
	Driveway Pipe	Aluminum	15"	barryr	Fair
	Driveway Pipe	Aluminum	15"	barryr	Fair
	Driveway Pipe	Aluminum	15"	barryr	Fair
	Driveway Pipe	Aluminum	15"	barryr	Fair
	Driveway Pipe	HDPE Perf Pipe	12"	barryr	Fair
	Channel Pipe	RCP	12"	barryr	Fair
	Driveway Pipe	HDPE Perf Pipe	12"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	HDPE Perf Pipe	12"	barryr	Fair
	Driveway Pipe	HDPE Perf Pipe	12"	barryr	Fair
	Driveway Pipe	HDPE Perf Pipe	12"	barryr	Fair
	Driveway Pipe	HDPE Perf Pipe	12"	barryr	Fair
	Driveway Pipe	HDPE Perf Pipe	12"	barryr	Fair
	Driveway Pipe	HDPE Perf Pipe	12"	barryr	Fair
	Driveway Pipe	HDPE Perf Pipe	12"	barryr	Fair
	Driveway Pipe	HDPE Perf Pipe	12"	barryr	Fair
	Driveway Pipe	PVC	6"	barryr	Fair
	Driveway Pipe	RCP	12"	barryr	Fair
	Driveway Pipe	RCP	24"	barryr	Fair
	Driveway Pipe	RCP	24"	barryr	Fair
	Driveway Pipe	RCP	24"	barryr	Fair
	Driveway Pipe	RCP	24"	barryr	Fair
	Driveway Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	42"	barryr	Fair
	Channel Pipe	RCP	42"	barryr	Fair
	Driveway Pipe	RCP	12"	barryr	Fair
	Driveway Pipe	RCP	12"	barryr	Fair
	Channel Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	Steel	12"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair

	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	32"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Channel Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	Aluminum	15"	barryr	Fair
	Driveway Pipe	Aluminum	15"	barryr	Fair
	Driveway Pipe	HDPE Perf Pipe	12"	barryr	Fair
	Driveway Pipe	HDPE Perf Pipe	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	Aluminum	12"	barryr	Fair
	Driveway Pipe	HDPE Perf Pipe	12"	barryr	Fair
2016-623	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	HDPE Perf Pipe	12"	barryr	Fair
	Driveway Pipe	HDPE Perf Pipe	12"	barryr	Fair
	Driveway Pipe	HDPE Perf Pipe	12"	barryr	Fair
	Driveway Pipe	HDPE Perf Pipe	12"	barryr	Fair
2016-623	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	HDPE Perf Pipe	12"	barryr	Fair
2016-623	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	Aluminum	12"	barryr	Fair
	Driveway Pipe	RCP	24"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	12"	barryr	Fair
	Driveway Pipe	RCP	12"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Channel Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	Steel	15"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	46"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair

	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	Corrugated Metal	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Channel Pipe	HDPE	24"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Driveway Pipe	RCP	15	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	HDPE	24"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Channel Pipe	HDPE	18"	barryr	Fair
	Roadside Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	52"	barryr	Fair
	Driveway Pipe	RCP	15	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
2012-517	Driveway Pipe	RCP	15	barryr	Fair
	Driveway Pipe		15"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Lateral Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair

	Driveway Pipe	RCP	12"	barryr	Poor
	Driveway Pipe	RCP	12"	barryr	Poor
	Driveway Pipe	RCP	12"	barryr	Poor
	Driveway Pipe	RCP	12"	barryr	Poor
	Driveway Pipe	RCP	12"	barryr	Poor
	Driveway Pipe	RCP	12"	barryr	Poor
	Driveway Pipe	RCP	12"	barryr	Poor
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
11-309C	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	RCP	12"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	RCP	12"	barryr	Fair
	Driveway Pipe	Aluminum	15"	barryr	Fair
2014-309A	Driveway Pipe	RCP	15"	barryr	Fair
2011-309B	Driveway Pipe	HDPE	12"	barryr	Fair
	Channel (fka Outfall)			barryr	
2014-200	Access Pipe	HDPE	24"	barryr	
	Channel Pipe	Corrugated Metal	24"	barryr	Poor
	Channel Pipe	Corrugated Metal	24"	barryr	Poor
	Channel Pipe	Corrugated Metal	24"	barryr	Poor
	Crossline Pipe	RCP	15"	barryr	Fair
	Bleeder Pipe	NYLOPLAST	18"	barryr	Fair
	Bleeder Pipe	NYLOPLAST	18"	barryr	Fair
	Driveway Pipe	RCP	24"	barryr	Fair
	Driveway Pipe	RCP	24"	barryr	Fair
	Driveway Pipe	RCP	24"	barryr	Fair
	Driveway Pipe	RCP	12"	barryr	Fair
	Access Pipe	RCP	12"	barryr	Fair
	Crossline Pipe	RCP	52"?	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	Concrete	16"	barryr	Poor
	Roadside Pipe	HDPE	18"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Poor
2015-018	Driveway Pipe	RCP	12"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Poor
	Roadside Pipe	RCP	18"	barryr	Fair
	Channel Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Channel Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Access Pipe	RCP	15"	barryr	Fair
	Access Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair

	Driveway Pipe	HDPE	15"	barryr	Poor
	Roadside Pipe	RCP	18"	Esri_Anonymous	Fair
	Roadside Pipe	RCP	24"	Esri_Anonymous	Fair
	Channel Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	18"	Esri_Anonymous	Fair
	Channel Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	18"	Esri_Anonymous	Fair
	Crossline Pipe	RCP	24"	barryr	
	Channel Pipe	RCP	36"	barryr	Fair
	Roadside Pipe	RCP	18"	Esri_Anonymous	Fair
	Channel Pipe	RCP	32"	barryr	Fair
	Roadside Pipe	RCP	24"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	24"	barryr	Fair
	Roadside Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	Plastic Pipe	10"	barryr	Poor
	Crossline Pipe	RCP	30"	barryr	Fair
	Crossline Pipe	RCP	30"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	Plastic Pipe	12"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Poor
	Crossline Pipe	RCP		barryr	Fair
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
2004-63	Roadside			barryr	
	Crossline Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	HDPE Perf Pipe	18"	barryr	Fair
	Channel Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Channel Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Poor
	Access Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	RCP	15"	barryr	Poor
	Crossline Pipe	RCP	32"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	RCP	15"	barryr	Poor
	Driveway Pipe	RCP	15"	barryr	Poor
	Channel Pipe	RCP	15"	barryr	Fair
	Channel Pipe	RCP	15"	barryr	Fair
	Channel Pipe	RCP	15"	barryr	Fair
	Channel Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	32"	barryr	Poor
	Driveway Pipe	HDPE	32"	barryr	Poor
	Driveway Pipe	RCP	15"	barryr	Poor
	Crossline Pipe	RCP	15"	barryr	Poor
	Road Pipe	RCP	15"	barryr	Fair
	Road Pipe	RCP	12"	barryr	Fair

	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	15"	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15"	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15"	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15"	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15"	Esri_Anonymous	Fair
	Crossline Pipe	RCP	12"	barryr	Fair
	Crossline Pipe	Steel	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Roadside Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Road Pipe	RCP	42" (?)	barryr	Fair
	Road Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	Steel	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Roadside Pipe	RCP	24"	barryr	Fair
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Crossline Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Roadside			barryr	
	Crossline Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Lateral Pipe	HDPE	15"	barryr	Fair
	Road Pipe	RCP	42"	barryr	Fair
	Lateral Pipe	RCP	36"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Lateral Pipe	HDPE	15"	barryr	Fair
	Lateral Pipe	RCP	18"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Road Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Lateral Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair

	Lateral Pipe	RCP	15"	barryr	Fair
	Lateral Pipe	RCP	15"	barryr	Fair
	Road Pipe	RCP	18"	barryr	Fair
	Road Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Road Pipe			barryr	
	Road Pipe			barryr	
	Crossline Pipe	RCP	15"	barryr	Fair
	Road Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Lateral Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15"	barryr	Fair
	Roadside Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	12fÇ¥	barryr	Fair
	Crossline Pipe	RCP	15fÇ¥	barryr	Fair
	Crossline Pipe	RCP	15fÇ¥	barryr	Fair
	Crossline Pipe	RCP	15fÇ¥	barryr	Fair
	Roadside Pipe	RCP	18fÇ¥	barryr	Fair
	Roadside Pipe	RCP	15fÇ¥	barryr	Fair
	Driveway Pipe	RCP	15fÇ¥	barryr	Poor
	Driveway Pipe	RCP	15fÇ¥	barryr	Poor
	Driveway Pipe	RCP	15"	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15"	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15"	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15"	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15"	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15	barryr	Fair
	Driveway Pipe	RCP	15	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15	barryr	Fair
	Driveway Pipe	RCP	15	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15fÇ¥	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15fÇ¥	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15fÇ¥	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15fÇ¥	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18"	Esri_Anonymous	Fair
	Driveway Pipe	RCP	18"	Esri_Anonymous	Fair
	Road Pipe	RCP	15fÇ¥	barryr	Fair
	Crossline Pipe	RCP	15fÇ¥	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	15	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15	barryr	Fair
	Driveway Pipe	RCP	15	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	15fÇ¥	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18"	Esri_Anonymous	Fair
	Driveway Pipe	RCP	18"	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15fÇ¥	barryr	Fair
	Roadside Pipe	RCP	15fÇ¥	barryr	Fair
	Crossline Pipe	RCP	15fÇ¥	barryr	Fair
	Crossline Pipe	RCP	15fÇ¥	barryr	Fair
	Channel Pipe	RCP	15fÇ¥	barryr	Fair

	Driveway Pipe	RCP	15	barryr	Fair
	Driveway Pipe	RCP	15	barryr	Fair
	Driveway Pipe	RCP	15	barryr	Fair
	Driveway Pipe	RCP	15	barryr	Fair
	Crossline Pipe	RCP	24	barryr	Fair
	Crossline Pipe	RCP	15ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	15ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	15ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	15ГÇŸ	barryr	Fair
	Road Pipe	RCP	15ГÇŸ	barryr	Fair
	Roadside Pipe	RCP	15ГÇŸ	barryr	Fair
	Roadside Pipe	RCP	15ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	15ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	15ГÇŸ	barryr	Fair
	Road Pipe	RCP	15ГÇŸ	barryr	Fair
	Road Pipe	RCP	15ГÇŸ	barryr	Fair
	Roadside Pipe		15ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	15ГÇŸ	barryr	Fair
	Roadside Pipe	RCP	15ГÇŸ	barryr	Fair
	Roadside Pipe	RCP	15ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	15ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Poor
	Driveway Pipe	RCP	18"	barryr	Poor
	Driveway Pipe	RCP	18"	barryr	Poor
	Driveway Pipe	RCP	18"	barryr	Poor
2012-531	Driveway Pipe	RCP	18"	barryr	Fair
2012-531	Crossline Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Poor
	Driveway Pipe	RCP	18"	barryr	Poor
	Driveway Pipe	RCP	18"	barryr	Poor
	Driveway Pipe	RCP	18"	barryr	Poor
	Driveway Pipe	RCP	18"	barryr	Poor
	Driveway Pipe	RCP	18"	barryr	Poor
	Driveway Pipe	RCP	18"	barryr	Poor
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Channel Pipe	RCP	24ГÇŸ	barryr	Fair
	Lateral Pipe	RCP	18ГÇŸ	barryr	Fair
	Lateral Pipe	RCP	12ГÇŸ	barryr	Fair
	Lateral Pipe	RCP	12ГÇŸ	barryr	Fair
	Lateral Pipe	RCP	12ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Poor
	Crossline Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	Concrete	15"	barryr	Fair
	Crossline Pipe	RCP	24"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Channel Pipe	RCP	24ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	15ГÇŸ	barryr	Fair
	Lateral Pipe	RCP	15ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	15ГÇŸ	barryr	Fair
	Lateral Pipe	RCP	18ГÇŸ	barryr	Fair
	Roadside Pipe	RCP	15ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair

	Roadside			barryr	Fair
	Road Pipe	RCP	32ΓÇ¥	barryr	Fair
	Channel Pipe	Corrugated Metal	32ΓÇ¥	barryr	Fair
	Channel Pipe	RCP	24"	barryr	Fair
	Channel Pipe	RCP	24"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Crossline Pipe	RCP	15ΓÇ¥	barryr	Fair
	Road Pipe	RCP	32ΓÇ¥	barryr	Fair
	Road Pipe	RCP	15ΓÇ¥	barryr	Fair
	Road Pipe	RCP	32ΓÇ¥	barryr	Fair
	Roadside			barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Channel Pipe	Corrugated Metal	32ΓÇ¥	barryr	Fair
	Channel Pipe	RCP	24"	barryr	Fair
	Driveway Pipe	HDPE Perf Pipe	24"	barryr	Fair
	Crossline Pipe	RCP	15ΓÇ¥	barryr	Fair
	Road Pipe	RCP	24ΓÇ¥	barryr	Fair
	Road Pipe	RCP	15ΓÇ¥	barryr	Fair
	Crossline Pipe	RCP	15ΓÇ¥	barryr	Fair
	Crossline Pipe	RCP	15ΓÇ¥	barryr	Fair
	Lateral Pipe	Steel	15ΓÇ¥	barryr	Fair
	Crossline Pipe	Steel	15ΓÇ¥	barryr	Fair
	Roadside Pipe	HDPE	32ΓÇ¥	barryr	Fair
	Roadside Pipe	HDPE	32ΓÇ¥	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Fair
2014-606	Access Pipe	RCP	18"	barryr	Fair
2014-606	Access Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	18"	barryr	Good
	Driveway Pipe	RCP	18"	barryr	Good
2014-606	Driveway Pipe	RCP	24"	barryr	Good
	Crossline Pipe	RCP	15ΓÇ¥	barryr	Fair
	Crossline Pipe	RCP	15ΓÇ¥	barryr	Fair
	Road Pipe	RCP	48ΓÇ¥	barryr	Fair
	Crossline Pipe	RCP	15ΓÇ¥	barryr	Fair
	Road Pipe	RCP	32ΓÇ¥	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Driveway Pipe	RCP	24"	barryr	Good
2014-606	Driveway Pipe	RCP	24"	barryr	Good
2014-606	Driveway Pipe	RCP	24"	barryr	Good
	Road Pipe	RCP	48ΓÇ¥	barryr	Fair
	Crossline Pipe	RCP	15ΓÇ¥	barryr	Fair
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Roadside			barryr	
	Channel Pipe	RCP	15ΓÇ¥	barryr	Fair
	Crossline Pipe	RCP	15ΓÇ¥	barryr	Poor
	Driveway Pipe	RCP	18ΓÇ¥	barryr	Good
	Driveway Pipe	RCP	18"	barryr	Fair
	Driveway Pipe	RCP	15"	barryr	Fair
	Roadside			barryr	Fair
	Crossline Pipe	RCP	18ΓÇ¥	barryr	Fair
	Roadside Pipe	RCP	24ΓÇ¥	barryr	Fair
	Roadside Pipe	RCP	18ΓÇ¥	barryr	Fair
	Crossline Pipe	RCP	18ΓÇ¥	barryr	Fair
	Roadside Pipe	RCP	24ΓÇ¥	barryr	Fair
	Crossline Pipe	RCP	18ΓÇ¥	barryr	Fair
	Channel Pipe	RCP	18ΓÇ¥	barryr	Fair
	Channel Pipe	RCP	18ΓÇ¥	barryr	Fair
	Crossline Pipe	Corrugated Metal	36ΓÇ¥ ?		Fair
	Channel (fka Outfall)				
	Channel (fka Outfall)				
	Channel (fka Outfall)			Stanbery	Poor
	Crossline Pipe	RCP	18		Fair
	Crossline Pipe	RCP	18		Fair

	Driveway Pipe	RCP	15FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Crossline Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Channel Pipe	RCP	18FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	24FCY	barryr	Fair
	Crossline Pipe	RCP	24FCY	barryr	Fair
	Driveway Pipe	RCP	24FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Crossline Pipe	RCP	24FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Channel Pipe	RCP	18FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Channel Pipe	RCP	18FCY	barryr	Poor
	Channel Pipe	RCP	18FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Crossline Pipe	HDPE	24FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Crossline Pipe	Steel	6FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Channel (fka Outfall)			barryr	
	Driveway Pipe	RCP	15"	barryr	Good
	Driveway Pipe	RCP	15"	barryr	Good
	Driveway Pipe	RCP	15"	barryr	Good
	Driveway Pipe	RCP	15"	barryr	Good
2014-515	Crossline Pipe	RCP	15FCY	barryr	Fair
	Crossline Pipe	RCP	24FCY	barryr	Fair
	Roadside			barryr	
	Roadside			barryr	
	Driveway Pipe			barryr	
	Driveway Pipe	HDPE Perf Pipe	24FCY	barryr	Fair
	Driveway Pipe	RCP	18FCY	barryr	Fair
	Crossline Pipe	RCP	18FCY	barryr	Fair
	Channel Pipe	RCP	18FCY	barryr	Fair
	Channel Pipe	RCP	18FCY	barryr	Fair
	Channel Pipe	RCP	18FCY	barryr	Fair

	Driveway Pipe	RCP	18FCY	barryr	Fair
	Crossline Pipe	RCP	30"	barryr	
	Access Pipe	RCP	15"	barryr	
	Access Pipe	RCP	15"	barryr	
	Driveway Pipe			barryr	
RM	Channel Pipe			barryr	
	Crossline Pipe	RCP	24FCY	barryr	Good
	Bleeder Pipe	HDPE	24FCY	barryr	Good
	Driveway Pipe	RCP	18FCY	barryr	Good
	Driveway Pipe	RCP	15FCY	barryr	Good
	Driveway Pipe	RCP	15FCY	barryr	Good
	Driveway Pipe	RCP	24FCY	barryr	Good
	Driveway Pipe	RCP	24FCY	barryr	Good
	Driveway Pipe	RCP	24FCY	barryr	Good
	Driveway Pipe	RCP	15FCY	barryr	Good
	Driveway Pipe	RCP	15FCY	barryr	Good
	Driveway Pipe	RCP	36FCY	barryr	Good
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Good
	Driveway Pipe	HDPE	15FCY	barryr	Poor
	Driveway Pipe	HDPE	15FCY	barryr	Good
	Driveway Pipe	RCP	24FCY	barryr	Fair
	Driveway Pipe	RCP	24FCY	barryr	Good
	Driveway Pipe	RCP	18FCY	barryr	Good
	Driveway Pipe	RCP	24FCY	barryr	Good
	Driveway Pipe	RCP	24FCY	barryr	Good
	Driveway Pipe	RCP	24FCY	barryr	Good
	Driveway Pipe	RCP	24FCY	barryr	Good
	Driveway Pipe	RCP	24FCY	barryr	Good
	Driveway Pipe	RCP	18FCY	barryr	Good
	Driveway Pipe	RCP	18FCY	barryr	Fair
	Driveway Pipe	RCP	18FCY	barryr	Good
	Driveway Pipe	HDPE	15FCY	barryr	Fair
	Driveway Pipe	RCP	18FCY	barryr	Good
	Crossline Pipe	RCP	18FCY	barryr	Fair
	Crossline Pipe	RCP	18FCY	barryr	Good
	Driveway Pipe	RCP	18FCY	barryr	Good
	Driveway Pipe	RCP	18FCY	barryr	Good
	Driveway Pipe	RCP	12FCY	barryr	Good
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Good
	Driveway Pipe	RCP	15FCY	barryr	
	Driveway Pipe	RCP	15FCY	barryr	Good
	Driveway Pipe	RCP	15FCY	barryr	Good
	Driveway Pipe	RCP	15FCY	barryr	Good
	Driveway Pipe	RCP	15FCY	barryr	Good
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Good
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Good
	Driveway Pipe	RCP	15FCY	barryr	Good
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Good
	Driveway Pipe	RCP	15FCY	barryr	Good
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Good
	Driveway Pipe	RCP	15FCY	barryr	Good
	Driveway Pipe	RCP	15FCY	barryr	Poor
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Good
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Good
	Driveway Pipe	RCP	15FCY	barryr	Fair
	Driveway Pipe	RCP	15FCY	barryr	Good

	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	18ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Crossline Pipe	RCP	18ГÇŸ	barryr	Good
	Crossline Pipe	RCP	18ГÇŸ	barryr	Good
	Crossline Pipe	RCP	18ГÇŸ	barryr	Good
	Bleeder Pipe	RCP	15ГÇŸ	barryr	Good
	Bleeder Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	PVC	12ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	24ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Poor
	Channel Pipe	RCP	Not visible	Esri_Anonymous	Poor
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Roadside Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Roadside			Esri_Anonymous	Good
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Fair
	Roadside			Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Roadside Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair

	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	
	Access Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	48ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	HDPE	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	Corrugated Metal	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	Corrugated Metal		Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	36ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor

	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	18ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	18ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Good
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Crossline Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	12ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Crossline Pipe	RCP	30ГÇŸ	barryr	Good
	Driveway Pipe	HDPE	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Crossline Pipe	Corrugated Metal	30ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	18ГÇŸ	barryr	Good
	Access Pipe	RCP	18ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	18ГÇŸ	barryr	Good
	Access Pipe	RCP	18ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	18ГÇŸ	barryr	Good
	Driveway Pipe	RCP	18ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	24ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	18ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	15ГÇŸ	barryr	Good

	Bleeder Pipe	RCP	15ГÇŸ	barryr	Fair
	Bleeder Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	18ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	18ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	18ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	18ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Access Pipe	RCP	18ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Access Pipe	RCP	12ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	18ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	18ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Access Pipe	HDPE	15ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	12ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	18ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	18ГÇŸ	barryr	Fair
	Access Pipe	RCP	18ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	18ГÇŸ	barryr	Fair
	Access Pipe	RCP	18ГÇŸ	barryr	Fair
	Driveway Pipe	HDPE	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	15ГÇŸ	barryr	Poor
	Crossline Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Poor

	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	15ГÇŸ	barryr	Poor
	Crossline Pipe	RCP	36ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	18ГÇŸ	barryr	Poor
	Crossline Pipe	RCP	18ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	HDPE	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Crossline Pipe	RCP	18ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	18ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	24ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Crossline Pipe	RCP	18ГÇŸ	barryr	Fair
	Access Pipe	RCP	18ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	18ГÇŸ	barryr	Good
	Driveway Pipe	RCP	18ГÇŸ	barryr	Good
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	24ГÇŸ	barryr	Good
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Crossline Pipe	RCP	24ГÇŸ	barryr	Good
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	18ГÇŸ	barryr	Poor
	Access Pipe	RCP	18ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Access Pipe	HDPE	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	18ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	HDPE	12ГÇŸ	barryr	Good
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Poor

	Access Pipe	RCP	24ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	24ГÇŸ	barryr	Good
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Crossline Pipe	RCP	15ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	18ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	24ГÇŸ	barryr	Fair
	Access Pipe	RCP	18ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	18ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	18ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Crossline Pipe	RCP	15ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	18ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	HDPE	12ГÇŸ	barryr	Good
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	HDPE	12ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Crossline Pipe	RCP	18ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Access Pipe	RCP	24ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	18ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	18ГÇŸ	barryr	Good
	Crossline Pipe	RCP	18ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	24ГÇŸ	barryr	Good
	Crossline Pipe	RCP	24ГÇŸ	barryr	Good
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	12ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	24ГÇŸ	barryr	Good
	Access Pipe	RCP	24ГÇŸ	barryr	Fair
	Access Pipe	RCP	24ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	24ГÇŸ	barryr	Good
	Access Pipe	RCP	18ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Access Pipe	RCP	24ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	18ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor

	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Access Pipe	HDPE	12ГÇŸ	barryr	Good
	Access Pipe	HDPE	18ГÇŸ	barryr	Good
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Access Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
2003-95	Roadside			barryr	
2003-95	Driveway Pipe	RCP	15"	barryr	
RM	Access Pipe	HDPE	24"	barryr	Good
	Roadside Pipe	RCP	18ГÇŸ	barryr	Good
	Road Pipe	RCP	18ГÇŸ	barryr	Good
	Crossline Pipe	RCP	18ГÇŸ	barryr	Good
	Crossline Pipe	RCP	18ГÇŸ	barryr	Good
	Road Pipe	RCP	18ГÇŸ	barryr	Good
	Crossline Pipe	RCP	18ГÇŸ	barryr	Good
	Road Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	30ГÇŸ	barryr	Good
	Driveway Pipe	Cast Iron	12ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Crossline Pipe	RCP	18ГÇŸ	barryr	Good
	Roadside Pipe	RCP	18ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	18ГÇŸ	barryr	Good
	Roadside Pipe	HDPE	12ГÇŸ	barryr	Good
	Crossline Pipe	RCP	18ГÇŸ	barryr	Good
	Roadside Pipe	HDPE	12ГÇŸ	barryr	Good
	Crossline Pipe	RCP	18ГÇŸ	barryr	Good
	Crossline Pipe	RCP	18ГÇŸ	barryr	Good
	Roadside Pipe	RCP	12ГÇŸ	barryr	Good
	Crossline Pipe	RCP	18ГÇŸ	barryr	Good
	Roadside Pipe	HDPE	12ГÇŸ	barryr	Good
	Crossline Pipe	RCP	18ГÇŸ	barryr	Good
	Roadside Pipe	HDPE	12ГÇŸ	barryr	Good
	Crossline Pipe	RCP	18ГÇŸ	barryr	Good
	Crossline Pipe	RCP	24ГÇŸ	barryr	Good
	Crossline Pipe	RCP	24ГÇŸ	barryr	Good
	Driveway Pipe	RCP	12ГÇŸ	barryr	Good
	Access Pipe	RCP	12ГÇŸ	barryr	Good
	Driveway Pipe	RCP	18ГÇŸ	barryr	Good
	Driveway Pipe	RCP	12ГÇŸ	barryr	Good
	Driveway Pipe	RCP	12ГÇŸ	barryr	Good
	Driveway Pipe	RCP	24ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Access Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Crossline Pipe	RCP	30ГÇŸ	barryr	Good
	Crossline Pipe	RCP	24ГÇŸ	barryr	Good
	Driveway Pipe	RCP	18ГÇŸ	barryr	Fair
	Driveway Pipe	HDPE	15ГÇŸ	barryr	Fair
	Crossline Pipe	HDPE	30ГÇŸ	barryr	Good
	Driveway Pipe	RCP	18ГÇŸ	barryr	Good
	Roadside Pipe	RCP	18ГÇŸ	barryr	Good
	Crossline Pipe	RCP	18ГÇŸ	barryr	Poor
	Crossline Pipe	RCP	18ГÇŸ	barryr	Good
	Crossline Pipe	HDPE	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	12ГÇŸ	barryr	Poor
	Crossline Pipe	RCP	15ГÇŸ	barryr	Good
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	24ГÇŸ	barryr	Good
	Crossline Pipe	RCP	18ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	12ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair

	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Driveway Pipe	RCP	15ГÇŸ	barryr	Good
	Crossline Pipe	RCP	18ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	18ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	18ГÇŸ	barryr	Fair
	Roadside Pipe	RCP	18ГÇŸ	barryr	Good
	Roadside Pipe	RCP	18ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	18ГÇŸ	barryr	Poor
	Driveway Pipe	RCP	15ГÇŸ	barryr	Fair
	Access Pipe	RCP	15ГÇŸ	barryr	Fair
	Crossline Pipe	RCP	24ГÇŸ	barryr	Good
	Crossline Pipe	RCP	24ГÇŸ	barryr	Good
	Crossline Pipe	RCP	24ГÇŸ	barryr	Good
	Crossline Pipe	RCP	24ГÇŸ	barryr	Good
	Crossline Pipe	RCP	24ГÇŸ	barryr	Good
	Crossline Pipe	RCP	24ГÇŸ	barryr	Good
	Crossline Pipe	RCP	18ГÇŸ	barryr	Good
	Crossline Pipe	RCP	36ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	36ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	42ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	42ГÇŸ	Esri_Anonymous	Good
	Access Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	HDPE	18ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Lateral Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Lateral Pipe	PVC	8ГÇŸ	Esri_Anonymous	Good
	Lateral Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Lateral Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	Cast Iron	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Roadside Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good

	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	30ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	30ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Roadside Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	30ГÇŸ	Esri_Anonymous	Good
	Roadside Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Roadside Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Roadside Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Roadside Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	Corrugated Metal	12ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Lateral Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Lateral Pipe	PVC	8ГÇŸ	Esri_Anonymous	Good
	Lateral Pipe	PVC	6ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Bleeder Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	24ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	Asphalt	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	Asphalt	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair

	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	HDPE	24ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	30ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe		15"	barryr	
	Crossline Pipe		15"	barryr	
	Crossline Pipe	RCP	15"	barryr	
	Crossline Pipe		15"	barryr	
	Crossline Pipe		15"	barryr	

	Channel (fka Outfall)			barryr	
	Channel Pipe	RCP	15	barryr	
	Roadside			barryr	
	Driveway Pipe	RCP	15"	barryr	
	Roadside			barryr	
	Driveway Pipe	RCP	15"	barryr	
	Roadside			barryr	Fair
	Roadside			barryr	Fair
	Roadside Pipe	HDPE	24"	barryr	Fair
	Driveway Pipe	RCP	18FCY	Esri_Anonymous	Good
	Driveway Pipe	HDPE	18FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	18FCY	Esri_Anonymous	Good
	Crossline Pipe	RCP	18FCY	Esri_Anonymous	Good
	Access Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Good
	Access Pipe	RCP	18FCY	Esri_Anonymous	Poor
	Crossline Pipe	RCP	24FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	24FCY	Esri_Anonymous	Fair
	Access Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	24FCY	Esri_Anonymous	Fair
	Access Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Good
	Crossline Pipe	RCP	24FCY	Esri_Anonymous	Poor
	Crossline Pipe	RCP	24FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Crossline Pipe	RCP	24FCY	Esri_Anonymous	Good
	Crossline Pipe	RCP	24FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Good
	Access Pipe	RCP	15FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	18FCY	Esri_Anonymous	Good
	Access Pipe	RCP	18FCY	Esri_Anonymous	Fair
	Driveway Pipe	HDPE	24FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Access Pipe	RCP	15FCY	Esri_Anonymous	Good
	Access Pipe	Corrugated Metal	24FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Good
	Access Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Access Pipe	RCP	15FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Good
	Access Pipe	RCP	15FCY	Esri_Anonymous	Good
	Access Pipe	RCP	18FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Fair

	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Bleeder Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	Corrugated Metal	36ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Bleeder Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	PVC	4ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Bleeder Pipe	PVC	8ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	DIP	6ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	36ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	HDPE	18ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	189	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair

	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	36ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	60ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	24ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	36ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	24ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	Corrugated Metal	36ГÇŸ	Esri_Anonymous	Good
	Access Pipe	HDPE	36ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	DIP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good

	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe			barryr	
	Driveway Pipe			barryr	
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	Corrugated Metal	60ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Channel Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	Corrugated Metal	24ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	Corrugated Metal	24ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	24ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	24ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	24ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	24ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	36ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	36ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	HDPE	18ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair

	Access Pipe	Corrugated Metal	36ҒҘ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Good
	Access Pipe	RCP	15ҒҘ	Esri_Anonymous	Fair
	Access Pipe	HDPE	18ҒҘ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ҒҘ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ҒҘ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	18ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ҒҘ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	HDPE	15ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	12ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	12ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	12ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	12ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	12ҒҘ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Poor
	Access Pipe	RCP	18ҒҘ	Esri_Anonymous	Fair
	Roadside Pipe	RCP	24ҒҘ	Esri_Anonymous	Good
	Driveway Pipe	RCP	24ҒҘ	Esri_Anonymous	Good
	Crossline Pipe	RCP	36ҒҘ	Esri_Anonymous	Good
	Roadside Pipe	RCP	36ҒҘ	Esri_Anonymous	Good
	Driveway Pipe	RCP	36ҒҘ	Esri_Anonymous	Good
	Access Pipe	RCP	18ҒҘ	Esri_Anonymous	Poor
	Access Pipe	RCP	18ҒҘ	Esri_Anonymous	Poor
	Access Pipe	RCP	18ҒҘ	Esri_Anonymous	Poor
	Access Pipe	RCP	18ҒҘ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ҒҘ	Esri_Anonymous	Poor
	Access Pipe	Corrugated Metal	15ҒҘ	Esri_Anonymous	Poor
	Access Pipe	HDPE	18ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒҘ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ҒҘ	Esri_Anonymous	Fair

	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Fair
	Driveway Pipe	HDPE	12ҒÇЎ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ҒÇЎ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ҒÇЎ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Good
	Access Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Good
	Access Pipe	RCP	24ҒÇЎ	Esri_Anonymous	Good
	Crossline Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Poor
	Access Pipe	RCP	18ҒÇЎ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ҒÇЎ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Good
	Bleeder Pipe	HDPE	12ҒÇЎ	Esri_Anonymous	Good
	Driveway Pipe	Corrugated Metal	15ҒÇЎ	Esri_Anonymous	Poor
	Driveway Pipe	Corrugated Metal	15ҒÇЎ	Esri_Anonymous	Poor
	Crossline Pipe	HDPE	24ҒÇЎ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	24ҒÇЎ	Esri_Anonymous	Fair
	Access Pipe	RCP	24ҒÇЎ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ҒÇЎ	Esri_Anonymous	Fair
	Driveway Pipe	HDPE	12ҒÇЎ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ҒÇЎ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	15ҒÇЎ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ҒÇЎ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ҒÇЎ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ҒÇЎ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	18ҒÇЎ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Fair
	Driveway Pipe	HDPE	15ҒÇЎ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Good
	Driveway Pipe	HDPE	15ҒÇЎ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ҒÇЎ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ҒÇЎ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ҒÇЎ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ҒÇЎ	Esri_Anonymous	Fair

	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	DIP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	CMP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Roadside Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	Clay	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	PVC	12ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	PVC	12ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	PVC	6ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	HDPE	36ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	PVC	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	PVC	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	PVC	6ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	PVC	6ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Roadside Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Roadside Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	PVC	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	PVC	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	PVC	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	PVC	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Roadside Pipe	RCP	12ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	PVC	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Roadside Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	PVC	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	PVC	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	PVC	12ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Roadside Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	PVC	12ГÇŸ	Esri_Anonymous	Fair

	Driveway Pipe	CMP	12ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	Clay	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	PVC	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Bleeder Pipe	PVC	6ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	PVC	6ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Roadside Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Roadside Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Roadside Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Channel Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	PVC	6ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	PVC	6ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	PVC	6ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	HDPE	6ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	PVC	6ГÇŸ	Esri_Anonymous	Fair
	Bleeder Pipe	PVC	6ГÇŸ	Esri_Anonymous	Poor
	Roadside Pipe	PVC	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Roadside Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Roadside Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor

	Roadside Pipe	PVC	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	CMP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	Asphalt	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Roadside Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Roadside Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	HDPE	18ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	HDPE	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	HDPE	18ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	PVC	12ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Roadside Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Fair
	Roadside Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Roadside Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Roadside Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	HDPE	24ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Roadside Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Roadside Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor

	Channel Pipe	HDPE	6ГÇ¥	Esri_Anonymous	Good
	Crossline Pipe	RCP	24ГÇ¥	Esri_Anonymous	Good
	Crossline Pipe	RCP	15ГÇ¥	Esri_Anonymous	Poor
	Crossline Pipe	CMP	36ГÇ¥	Esri_Anonymous	Good
	Crossline Pipe	CMP	36ГÇ¥	Esri_Anonymous	Fair
	Crossline Pipe	PVC	8ГÇ¥	Esri_Anonymous	Fair
	Channel Pipe	HDPE	12ГÇ¥	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇ¥	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇ¥	Esri_Anonymous	Fair
	Channel Pipe	RCP	24ГÇ¥	Esri_Anonymous	Fair
	Roadside Pipe	RCP	15ГÇ¥	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇ¥	Esri_Anonymous	Fair
	Driveway Pipe	RCP	18ГÇ¥	Esri_Anonymous	Good
	Crossline Pipe	CMP	36ГÇ¥	Esri_Anonymous	Poor
	Roadside Pipe	PVC	6ГÇ¥	Esri_Anonymous	Good
	Roadside Pipe	RCP	18ГÇ¥	Esri_Anonymous	Good
	Roadside Pipe	RCP	15ГÇ¥	Esri_Anonymous	Fair
	Roadside Pipe	RCP	18ГÇ¥	Esri_Anonymous	Fair
	Roadside Pipe	RCP	18ГÇ¥	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇ¥	Esri_Anonymous	Fair
	Roadside Pipe	RCP	18ГÇ¥	Esri_Anonymous	Fair
	Channel Pipe	HDPE	15ГÇ¥	Esri_Anonymous	Fair
	Roadside Pipe	RCP	18ГÇ¥	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇ¥	Esri_Anonymous	Fair
	Roadside Pipe	RCP	18ГÇ¥	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇ¥	Esri_Anonymous	Good
	Roadside Pipe	RCP	18ГÇ¥	Esri_Anonymous	Good
	Channel Pipe	RCP	24ГÇ¥	Esri_Anonymous	Fair
	Driveway Pipe	RCP	18ГÇ¥	Esri_Anonymous	Fair
	Channel Pipe	RCP	24ГÇ¥	Esri_Anonymous	Fair
	Driveway Pipe	RCP	18ГÇ¥	Esri_Anonymous	Good
	Roadside Pipe	RCP	18ГÇ¥	Esri_Anonymous	Good
	Crossline Pipe	PVC	6ГÇ¥	Esri_Anonymous	Poor
	Roadside			barryr	
	Roadside			barryr	
	Driveway Pipe	RCP	15"	barryr	
	Crossline Pipe	HDPE	12ГÇ¥	Esri_Anonymous	Good
	Channel Pipe	HDPE	12ГÇ¥	Esri_Anonymous	Good
	Crossline Pipe	HDPE	12ГÇ¥	Esri_Anonymous	Good
	Roadside Pipe	RCP	12ГÇ¥	Esri_Anonymous	Fair
	Crossline Pipe	RCP	12ГÇ¥	Esri_Anonymous	Poor
	Channel Pipe	HDPE	12ГÇ¥	Esri_Anonymous	Fair
	Roadside Pipe	HDPE	8ГÇ¥	Esri_Anonymous	Fair
	Channel Pipe	PVC	8ГÇ¥	Esri_Anonymous	Fair
	Channel Pipe	RCP	12ГÇ¥	Esri_Anonymous	Fair
	Roadside Pipe	RCP	18ГÇ¥	Esri_Anonymous	Good
	Roadside Pipe	PVC	4ГÇ¥	Esri_Anonymous	Poor
	Crossline Pipe			Esri_Anonymous	Poor
	Roadside Pipe	RCP	18ГÇ¥	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇ¥	Esri_Anonymous	Good
	Channel Pipe	RCP	24ГÇ¥	Esri_Anonymous	Good
	Channel Pipe	PVC	10ГÇ¥	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇ¥	Esri_Anonymous	Good
	Driveway Pipe	RCP	12ГÇ¥	Esri_Anonymous	Fair
	Driveway Pipe	CMP	12ГÇ¥	Esri_Anonymous	Fair
	Roadside Pipe	RCP	18ГÇ¥	Esri_Anonymous	Fair
	Channel Pipe	CMP	18ГÇ¥	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇ¥	Esri_Anonymous	Good
	Driveway Pipe	HDPE	8ГÇ¥	Esri_Anonymous	Good
	Channel Pipe	HDPE	8ГÇ¥	Esri_Anonymous	Good
	Channel Pipe	RCP	8ГÇ¥	Esri_Anonymous	Fair
	Bleeder Pipe	HDPE	6ГÇ¥	Esri_Anonymous	Good
	Crossline Pipe	HDPE	4ГÇ¥	Esri_Anonymous	Fair
	Crossline Pipe	HDPE	4ГÇ¥	Esri_Anonymous	Fair
	Access Pipe	HDPE	4ГÇ¥	Esri_Anonymous	Poor
	Access Pipe	HDPE	4ГÇ¥	Esri_Anonymous	Poor

	Access Pipe	HDPE	4ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	HDPE	4ГÇŸ	Esri_Anonymous	Good
	Access Pipe	HDPE	4ГÇŸ	Esri_Anonymous	Good
	Access Pipe	HDPE	4ГÇŸ	Esri_Anonymous	Good
	Access Pipe	HDPE	4ГÇŸ	Esri_Anonymous	Good
	Access Pipe	HDPE	4ГÇŸ	Esri_Anonymous	Good
	Access Pipe	HDPE	4ГÇŸ	Esri_Anonymous	Good
	Access Pipe	HDPE	4ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	HDPE	4ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	HDPE	4ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	HDPE	4ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	HDPE	4ГÇŸ	Esri_Anonymous	Good
	Access Pipe	HDPE	4ГÇŸ	Esri_Anonymous	Good
	Access Pipe	HDPE	4ГÇŸ	Esri_Anonymous	Good
	Access Pipe	HDPE	4ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	HDPE	4ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	HDPE	42ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	HDPE	42ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	HDPE	42ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	12ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	42ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	42ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	42ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	PVC	6ГÇŸ	Esri_Anonymous	Good
	Channel Pipe	HDPE	18ГÇŸ	Esri_Anonymous	Good
	Channel Pipe	PVC	8ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Channel Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Channel Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Bleeder Pipe	PVC	8ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	DIP	18ГÇŸ	Esri_Anonymous	Fair
	Bleeder Pipe	HDPE	18ГÇŸ	Esri_Anonymous	Fair
	Channel Pipe	HDPE	12ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Bleeder Pipe	PVC	8ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Roadside Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Channel Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Channel Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor

	Channel (fka Outfall)			barryr	
	Crossline Pipe		18FCY	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Crossline Pipe	RCP	24FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	24FCY	Esri_Anonymous	Good
	Access Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Access Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Channel Pipe	RCP	18FCY	Esri_Anonymous	Fair
	Access Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Channel Pipe	RCP	18FCY	Esri_Anonymous	Fair
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Access Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Roadside Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Channel Pipe	RCP	18FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Channel Pipe	RCP	18FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Good
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Good
	Crossline Pipe	RCP	18FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Access Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Access Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Access Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Roadside Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18FCY	Esri_Anonymous	Poor
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Roadside Pipe	RCP	24FCY	Esri_Anonymous	Fair
	Roadside Pipe	RCP	15FCY	Esri_Anonymous	Fair

	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	18FCY	Esri_Anonymous	Poor
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Roadside Pipe	RCP	15FCY	Esri_Anonymous	Good
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Roadside Pipe	RCP	24FCY	Esri_Anonymous	Good
	Roadside Pipe	RCP	24FCY	Esri_Anonymous	Good
	Channel Pipe	RCP	24FCY	Esri_Anonymous	Good
	Roadside Pipe	RCP	18FCY	Esri_Anonymous	Good
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Good
	Roadside Pipe	RCP	15FCY	Esri_Anonymous	Good
	Roadside Pipe	RCP	18FCY	Esri_Anonymous	Good
	Access Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Channel Pipe	RCP	18FCY	Esri_Anonymous	Good
	Bleeder Pipe	HDPE	15FCY	Esri_Anonymous	Fair
	Roadside Pipe	RCP	15FCY	Esri_Anonymous	Good
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Good
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Good
	Roadside Pipe	RCP	24FCY	Esri_Anonymous	Good
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Good
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Good
	Driveway Pipe	HDPE	15FCY	Esri_Anonymous	Fair
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Good
	Channel Pipe			Esri_Anonymous	
	Roadside Pipe	RCP	24FCY	Esri_Anonymous	Good
	Driveway Pipe	HDPE	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	HDPE	15FCY	Esri_Anonymous	Fair
	Crossline Pipe	RCP	24FCY	Esri_Anonymous	Good
	Crossline Pipe	RCP	24FCY	Esri_Anonymous	Good
	Channel Pipe	RCP	24FCY	Esri_Anonymous	Poor
	Roadside Pipe	RCP	18FCY	Esri_Anonymous	Good
	Roadside Pipe	RCP	18FCY	Esri_Anonymous	Good
	Channel Pipe	RCP	18FCY	Esri_Anonymous	Good
	Roadside Pipe	RCP	18FCY	Esri_Anonymous	Fair
	Channel Pipe	RCP	18FCY	Esri_Anonymous	Fair
	Roadside Pipe	RCP	18FCY	Esri_Anonymous	Good
	Roadside Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Channel Pipe	RCP	36FCY	Esri_Anonymous	Fair
	Roadside Pipe	RCP	36FCY	Esri_Anonymous	Fair
	Roadside Pipe	RCP	24FCY	Esri_Anonymous	Fair
	Channel Pipe	RCP	24FCY	Esri_Anonymous	Fair
	Crossline Pipe	RCP	30FCY	Esri_Anonymous	Good
	Roadside Pipe	RCP	24FCY	Esri_Anonymous	Good
	Roadside Pipe	RCP	24FCY	Esri_Anonymous	Good
	Channel Pipe	RCP	18FCY	Esri_Anonymous	Fair
	Roadside Pipe	RCP	18FCY	Esri_Anonymous	Good
	Roadside Pipe	RCP	18FCY	Esri_Anonymous	Good
	Channel (fka Outfall)	RCP	15FCY	Esri_Anonymous	Good
	Crossline Pipe	RCP	15FCY	Esri_Anonymous	Good
	Roadside Pipe	RCP	18FCY	Esri_Anonymous	Good
	Channel Pipe	RCP	18FCY	Esri_Anonymous	Good
	Crossline Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	24FCY	Esri_Anonymous	Fair
	Access Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Roadside Pipe	RCP	15FCY	Esri_Anonymous	Good
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15FCY	Esri_Anonymous	Good
	Roadside Pipe	RCP	18FCY	Esri_Anonymous	Good
	Channel Pipe	RCP	18FCY	Esri_Anonymous	Good
	Channel Pipe	RCP	18FCY	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18FCY	Esri_Anonymous	Good
	Roadside Pipe	RCP	15FCY	Esri_Anonymous	Good
	Crossline Pipe	RCP	36FCY	Esri_Anonymous	Fair

	Roadside Pipe	RCP	36ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	Asphalt	12ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	Asphalt	12ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	Asphalt	12ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	Asphalt	12ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	12ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	36ГÇŸ	Esri_Anonymous	Fair
	Channel Pipe	RCP	36ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Channel Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Roadside Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good
	Roadside Pipe	RCP		Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Roadside Pipe	RCP	24ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	24ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Roadside Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Channel Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Roadside	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor

	Channel Pipe	HDPE	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Channel Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Channel Pipe	HDPE	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Channel Pipe	HDPE	24ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Channel Pipe	HDPE	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Lateral Pipe	HDPE	24ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Channel Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Channel Pipe	HDPE	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Channel Pipe	HDPE	18ГÇŸ	Esri_Anonymous	Fair
	Roadside Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	36ГÇŸ	Esri_Anonymous	Good
	Channel Pipe	HDPE	36ГÇŸ	Esri_Anonymous	Poor
	Lateral Pipe	HDPE	36ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	24ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Lateral Pipe	HDPE	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Lateral Pipe	HDPE	18ГÇŸ	Esri_Anonymous	Good
	Channel Pipe	RCP	36ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	36ГÇŸ	Esri_Anonymous	Good
	Channel Pipe	RCP	36ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Roadside Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Roadside Pipe	HDPE	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Roadside Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Channel Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Roadside Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Channel Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Channel Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Channel Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Road Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Road Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Channel Pipe	RCP	24ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Lateral Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Channel Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Lateral Pipe	RCP	18ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Road Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Channel Pipe	RCP	30ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair

	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Channel Pipe	HDPE	15FCY	Esri_Anonymous	Good
	Crossline Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Good
	Channel Pipe		18"	BARRYR	Good
	Crossline Pipe	RCP	18FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Access Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Access Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Roadside Pipe	RCP	15FCY	Esri_Anonymous	Good
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Good
	Crossline Pipe	RCP	15FCY	Esri_Anonymous	Good
	Crossline Pipe	RCP	15FCY	Esri_Anonymous	Good
	Roadside Pipe	RCP	15FCY	Esri_Anonymous	Good
	Roadside Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Roadside Pipe	RCP	15FCY	Esri_Anonymous	Good
	Roadside Pipe	RCP	15FCY	Esri_Anonymous	Good
	Crossline Pipe	RCP	15FCY	Esri_Anonymous	Good
	Crossline Pipe	RCP	15FCY	Esri_Anonymous	Good
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Access Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Access Pipe	RCP	15FCY	Esri_Anonymous	Good
	Driveway Pipe	HDPE	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Good
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Roadside Pipe	RCP	24FCY	Esri_Anonymous	Fair
	Crossline Pipe	RCP	24FCY	Esri_Anonymous	Fair
	Driveway Pipe	HDPE	15FCY	Esri_Anonymous	Poor
	Access Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Access Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Channel Pipe	RCP	15FCY	Esri_Anonymous	Fair
	Access Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Access Pipe	RCP	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	15FCY	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15FCY	Esri_Anonymous	Poor

	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	PVC	8ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Channel Pipe	HDPE	18ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	8ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	PVC	8ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	PVC	8ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	Asphalt	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Roadside Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Fair
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Channel Pipe	RCP	18ГÇŸ	Esri_Anonymous	Fair
	Roadside Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Access Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Roadside Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Channel Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Roadside			BARRYR	
	Driveway Pipe	RCP	15"	BARRYR	Good
	Roadside			BARRYR	
	Driveway Pipe	RCP	15"	BARRYR	
	Crossline Pipe	RCP	15"	BARRYR	Good
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Good
	Driveway Pipe	HDPE	15ГÇŸ	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15ГÇŸ	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Channel Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Channel Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Crossline Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Channel Pipe	RCP	18ГÇŸ	Esri_Anonymous	Good
	Channel Pipe	PVC	6ГÇŸ	Esri_Anonymous	Good

	Channel Pipe	RCP	24Ç¥	Esri_Anonymous	Good
	Driveway Pipe	PVC	8Ç¥	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Poor
	Driveway Pipe	HDPE	24Ç¥	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Fair
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Poor
	Crossline Pipe	RCP	15Ç¥	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Poor
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Poor
	Crossline Pipe	RCP	24Ç¥	Esri_Anonymous	Good
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Good
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Good
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Good
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Good
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Good
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Good
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Good
	Crossline Pipe	RCP	15Ç¥	Esri_Anonymous	Good
	Driveway Pipe	RCP	15Ç¥	Esri_Anonymous	Good
	Driveway Pipe	RCP	18Ç¥	Esri_Anonymous	Good
	Crossline Pipe	RCP	30Ç¥	Esri_Anonymous	Good
	Access Pipe	PVC	6Ç¥	Esri_Anonymous	Poor
	Access Pipe	PVC	6Ç¥	Esri_Anonymous	Poor
	Crossline Pipe	RCP	18Ç¥	Esri_Anonymous	Poor
	Roadside			BARRYR	
	Roadside Pipe			BARRYR	