



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD

Wednesday, April 2, 2014

2:00 p.m.

Beaufort Industrial Village, Building 3 Conference Room
104 Industrial Village Road, Beaufort
843.255.2805

In accordance with South Carolina Code of Laws, 1976, as amended, Section 30-4-80(d), all local media was duly notified of the time, date, place and agenda of this meeting.

1. CALL TO ORDER – 2:00 p.m.
 - A. Approval of Agenda
 - B. Approval of Minutes – March 5, 2014 ([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
 - A. Special Presentation – Kim Jones, Town of Bluffton
 - B. Monitoring Update – Eric Larson, P.E. ([backup](#))
 - C. Utility Update – Eric Larson, P.E. ([backup](#))
 - D. Stormwater Implementation Committee Report – Eric Larson, P.E. ([backup](#))
 - E. Upcoming Professional Contracts Report – Eric Larson, P.E. ([backup](#))
 - F. Financial Report – Alan Eisenman ([backup](#))
 - G. FY 2015 Budget – Carolyn Wallace ([backup](#))
 - H. Maintenance Project Report – Eddie Bellamy ([backup](#))
5. UNFINISHED BUSINESS
 - A. Regional Coordination – Eric Larson, P.E. ([backup](#))
 - B. Forby Tract Land Acquisition – Eric Larson, P.E. ([backup](#))
6. NEW BUSINESS
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
 - A. May 7, 2014 ([backup](#))
9. ADJOURNMENT



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

March 5, 2014 at 2:00 p.m. in Beaufort Industrial Village Building #2 Conference Room
Draft March 21, 2014

Board Members

Present	Absent
Don Smith	
William Bruggeman	
Patrick Mitchell	
Allyn Schneider	
James Fargher	

Ex-Officio Members

Present	Absent
Andy Kinghorn	
Scott Liggett	
Kimberly Jones	
Van Willis	

Beaufort County Staff

Rob McFee
Eric Larson
Eddie Bellamy
Carolyn Wallace
Danny Polk

Visitors

Lamar Taylor, City of Beaufort
Jeremy Ritchie, Town of Bluffton
Rick Nuzum, SCDHEC
Arturo Ovalles, SCDHEC
Jill Stewart, SCDHEC
Shannon Hicks, SCDHEC
Paul Moore, Ward Edwards
Reggie Reeves, GEL Engineering
Reed Armstrong, Coastal Conservation League

1. Meeting called to order – Don Smith

- A. Agenda – GEL Engineering’s presentation was moved to item B under *Reports*. Agenda was approved with change.
- B. February 5, 2014 Minutes – Approved.

2. Introductions – Completed.

3. Public Comment(s) – Allyn Schneider and Don Smith congratulated for another 4-year term to the board.

4. Reports –

- A. **MS4 Program Overview** – Jill Stewart provided a presentation on the new MS4 permit requirements ([please see attachment](#)). She complimented Beaufort County on the “leadership they have shown” through the years and their pro-active efforts in addressing stormwater runoff. She said with the designation as a MS4 they are now “taking them to a new level into the regulated world of MS4s”.
- B. **GEL Engineering Annual Monitoring Report** – Reggie Reeves provided a presentation on the sixth year of monitoring efforts by the utility ([please see attachment](#)). They continued sampling for trend analysis. There was only one special project. Port Royal Sound was on the 303d list for copper violation. Gel Engineering helped the county investigate if the impairment still exists, and if not, how could the waterway be taken off the 303d list. A TMDL is

scheduled for 2021 and the county wanted to know what they could do in the meantime. The county would have to develop and implement a DHEC-approved Quality Assurance Program Plan (QAPP) which would entail collecting quarterly samples over three years which would be 12 samples. And of the 12 samples, 11 would have to be below the surface water regulatory limit. Two samples were taken last April and both were above these limits. Therefore, the county decided not to pursue the QAPP.

C. Monitoring Update – Eric Larson

Mr. Larson submitted his written report in advance (please see attachment) and because of time, he forwent his presentation during the meeting.

D. Utility Updates – Eric Larson

Mr. Larson submitted his written report in advance (please see attachment) and because of time, he forwent his presentation during the meeting.

E. Upcoming Professional Contracts Report – Eric Larson

Okatie East – The project was recently completed by the utility and Mr. Larson would like to initiate a monitoring program for volume (to tie flow reduction to water quality). He would like to hire the design engineering firm (Ward Edwards) to develop the monitoring plan. The utility's Stormwater Inspector, Danny Polk, would do most of the work collecting the samples and then have Ward Edwards put the results back in to the model they used in the design. The scope and duration would be limited and the engineering cost should be less than \$10K. The board members passed a motion to recommend he proceed with this initiative.

Jellyball - Mr. Smith asked what was proposed in the scope of services that was stormwater related? Mr. Larson said that the scope of service proposed by ATM to the county is related to more than just stormwater. The stormwater portion is consider groundwater contamination, to evaluate the plan they are submitting to DHEC for their permit (NPDES discharge); and site controls (such as if there is a spill or runoff from the site, etc.)

F. Financial Report - Copies of the January financials were provided. Mrs. Carolyn Wallace reported that Mr. Alan Eisenman is scheduled to appear at the April board meeting for the quarterly report.

G. Maintenance Projects Report – Mr. Eddie Bellamy reported on (3) major projects, Patterson Road/Joe Allen Drive Channel, Duncan Farms Channel Maintenance, and Forest Fields Subdivision, Phase II. *Because of time, he forwent the presentation on the (19) minor and/or routine maintenance projects.*

5. Unfinished Business – Eric Larson

A. Regional Coordination

Mr. Larson submitted his written report in advance (please see attachment) and because of time, he forwent most of his presentation during the meeting. But he did comment on “Sea Level Rise”.

Sea Level Rise and Future Planning – The County's Planning Department is facilitating a research project with the S.C. Sea Grant Consortium to determine the County's vulnerability and consequences of sea level rise. Stormwater is actively participating in the study. There is no cost to the Utility.

Battery Creek Pond – Lamar Taylor, *City of Beaufort* – Last month the city authorized Ward Edwards to start the final design. In the meantime they are in the process of gathering more topography and tree survey data; proposing analysis and other future modeling; proposing trash removal concepts; and working on designing the erosion control plan. The city anticipates final design to be done in 60 days, permitting within the next 90 days, and hopefully advertising for

construction by this summer. Mr. Andy Kinghorn said there is a monitoring site downstream of this proposed project site which means that there will be monitoring data before and after the completion of this project that will help determine this BMPs effectiveness.

Stoney Creek – Kimberly Jones, Town of Bluffton – The town is ready to advertise the RFQ for this project. They are asking for bids to be in by April 4th. She also reported that the town received a check for \$100K from SC DHEC to support water quality improvements and projects in the May River.

6. New Business – Eric Larson

Forby Tract – Mr. Larson submitted his written report in advance (please see attachment). This parcel is located between Tanger Outlet 1 and the BMW dealership. The county wanted to purchase a little over an acre of this parcel to build a frontage road and the remaining acreage is wetland. The property owner would like the county to purchase the entire tract since the remaining portion cannot be developed. The county has asked the utility to share in the purchase of the entire tract and possibly use the remaining wetland as a BMP. The total cost is \$450K and the utility's cost-share would be \$300K. There is an overtopping identified in the Stormwater Management Plan but it has a low priority. Mr. Larson asked for discussion and recommendation(s).

Discussion ensued. Points made during the discussion included:

- Due to changes in the developed area and regulations since the completion of the Stormwater Management Plan (2006), is there still an overtopping issue?
- Can the overtopping issue be solved in a manner that does not require the use of the Forby tract and therefore not requiring the purchase of the site in total?
- Given the history with USACE permitting of the wetland modification at this site for the Bluffton Parkway project, is a project on this site even possible?

There was a motion for the utility to fast-track an engineering study to determine if this site can be used as a BMP to address the overtopping of Highway 278 and determine if there is a more cost-effective way to address the issue. The vote was tied. No recommendation. The board would like more information before proceeding.

7. Public Comment – Mr. Smith expressed his appreciation to GEL Engineering for the work they have done for the county over the last six years and how well they worked with the county and the USCB WQ lab during this transition.

8. Next Meeting Agenda – Mr. Larson expressed his desire to include a “Special Presentation” during reports each month on topics of interest, starting with a stormwater program report to be provided by each of the municipalities. He mentioned that Ms. Kim Jones with the Town of Bluffton has volunteered to present in April. The board members agreed.

Update or follow-on on the Forby tract to be on next month's agenda under “Unfinished Business”. The agenda was approved with this change.

9. Meeting Adjourned.

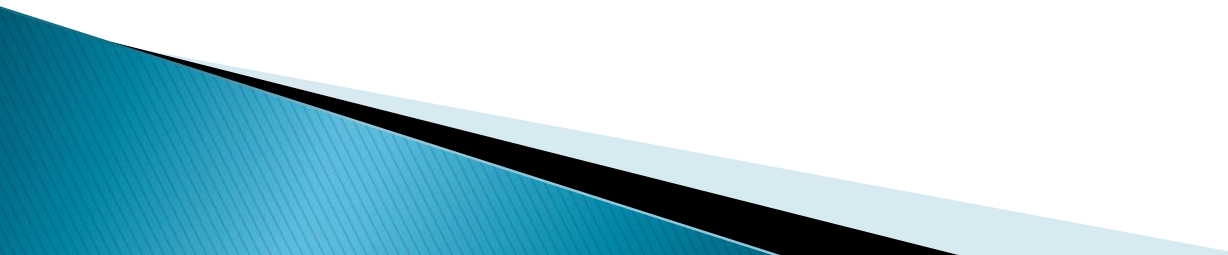


MS4s

South Carolina Department of Health and Environmental Control

Promoting and Protecting the Health of the Public and the Environment

Overview

- ▶ Origin of Regulation of Stormwater
 - ▶ MS4 Program Overview
 - ▶ MS4 Designation
 - ▶ Process for new MS4s
- 



Cuyahoga River Fire Nov. 3, 1952. Courtesy of Cleveland Press Collection at Cleveland State University Library.

Regulation Development



- ▶ Clean Water Act Goal: “to restore and maintain the chemical, physical, and biological integrity of the Nation’s waters”

NPDES

- ▶ National Pollutant Discharge Elimination System
- ▶ Program to reduce discharge of pollutants into Waters of the State / Waters of the United States
- ▶ SC delegated NPDES permitting authority and regulations are administered by DHEC
- ▶ U.S. EPA does have authority to exert jurisdiction in S.C.



MS4s

- ▶ MS4 – Municipal Separate Storm Sewer System meaning a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):
 - Owned or operated by a State, city, town, county, or other public body (created by or pursuant to State law);
 - Designed or used for collecting or conveying storm water.

MS4s – How are they defined?

- ▶ By Urbanized Area
- ▶ Urbanized Area defined by US Census 500 people/square mile



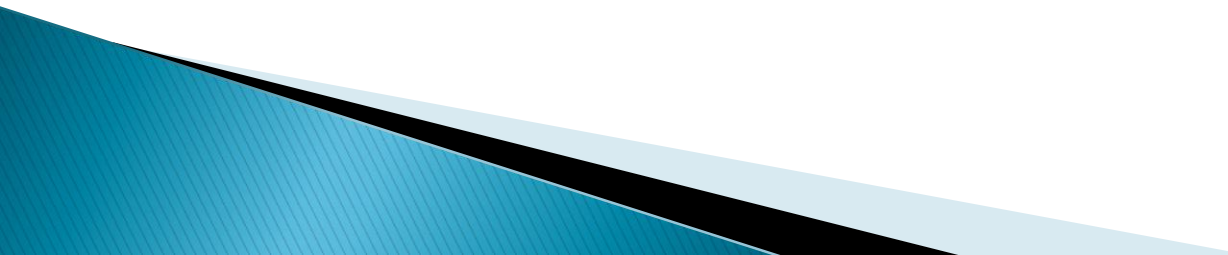
Phased Approach for MS4s

- ▶ Phase I – 1990 – Large and Medium MS4s
 - Large: Urbanized Area with $\geq 250,000$ (SCDOT)
 - Medium: Urbanized Area 100,000 – 249,999 (Greenville County, Richland County, City of Columbia)
 - Each issued an individual NPDES Permit

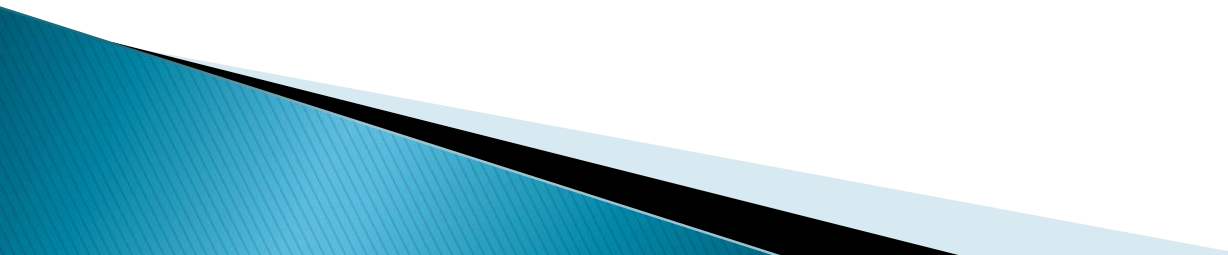
Phased Approach for MS4s

- ▶ Phase II – 1999 – First Round of Small MS4s
 - 70 entities – Including 4 military facilities
 - Horry County
 - City of Charleston
 - Florence County
 - City of Rock Hill
 - Shaw Air Force Base
 - And others
 - Issued coverage under a General Permit

What do MS4s Do?

- ▶ The ultimate goal of the MS4 program is to reduce the discharge of pollutants to Waters of the State.
 - ▶ Accomplished through the development and implementation of a Stormwater Management Program (SWMP)
 - ▶ The SWMP for Small MS4s consists of 6 Minimum Measures
- 

Requirements for Small MS4s

- ▶ Public Education and Outreach
 - ▶ Public Involvement/Participation
 - ▶ Illicit Discharge Detection and Elimination
 - ▶ Construction Site SW Runoff Control
 - ▶ Post Construction SW Management in New Development and Redevelopment
 - ▶ Pollution Prevention/Good Housekeeping for Municipal Operations
- 

Public Education and Outreach

- ▶ Implement a program to reduce pollutant discharges in stormwater runoff to the MS4



Public Involvement and Participation

- ▶ Create opportunities to involve the public in the planning and implementation of their stormwater program
 - Storm Drain Stenciling
 - Citizen Advisory Panels
 - Stream/ Beach Cleanup



Rain Barrel Art Review - Application Deadline

Friday, September 13 at 5:00pm

The Florence Darlington Stormwater Consortium is proud to present the Rain Barrel Art Review. This project challenges local artists to use their artistic talent to educate the community about the benefits of rain barrels. Finished barrels will be displayed at the Pecan Festival on November 2, 2013 where visitors will vote for their favorite. Following the festival, the barrels will be displayed at various Florence businesses and organizations and auctioned online with proceeds supporting local water education and protection efforts.

Applications are due by September 13. More information is available on the event website.



Illicit Detection and Elimination

- ▶ Implement and Enforce a program to detect and eliminate illicit discharges
 - Storm sewer system mapping
 - Dry weather field screenings
 - Stream walks
 - Hotlines for citizen reporting
- ▶ Illicits:
 - Illegal dumping
 - Sanitary Sewer Overflows
 - Leaking septic tanks



Construction Site Runoff Control

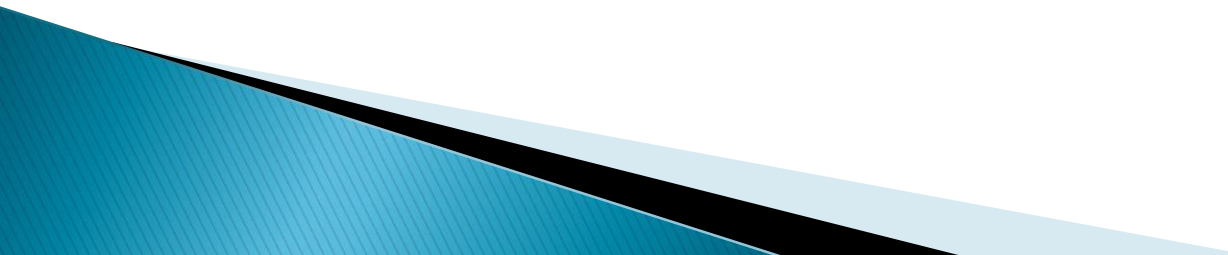
- ▶ Develop and Enforce a program to reduce pollutants in stormwater runoff from construction sites
 - Development of Ordinances and other regulatory mechanisms
 - Plan Review
 - Site Inspection
 - Enforcement



Construction Site Runoff Control

- ▶ Construction Activities to be regulated include:
 - Clearing, grading, and excavating resulting in land disturbance of 1 acre or more
 - Clearing, grading, and excavating of less than 1 acre when the activity is part of a Larger Common Plan for Development or Sale
 - Activity of less than 1 acre when site is located within ½ mile of a receiving water-body in the coastal zone

Post-Construction Site Runoff Control

- ▶ Develop and Enforce a program to reduce pollutants in stormwater runoff from new and redevelopment sites after construction has been completed
 - Development of Ordinances and other regulatory mechanisms
 - Plan Review
 - Long-term BMP Maintenance
 - Enforcement
- 

Post-Construction Site Runoff Control

- ▶ Minimize water quality impacts
- ▶ Attempt to maintain pre-development runoff conditions
- ▶ Policies and Ordinance to:
 - Direct growth to identified areas
 - Protect sensitive areas
 - Increase open space
 - Minimize impervious surfaces

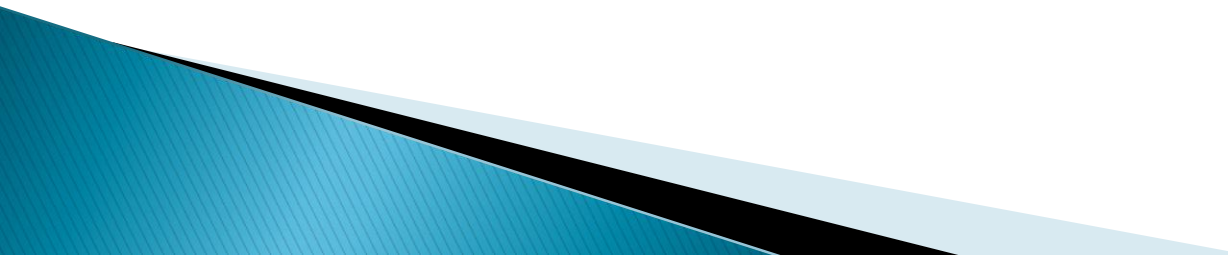


Pollution Prevention/ Good Housekeeping

- ▶ Develop and implement an operation and maintenance program preventing/ reducing pollution at municipal operations
 - Staff training
 - Maintenance activities
 - Facility inspection and assessment

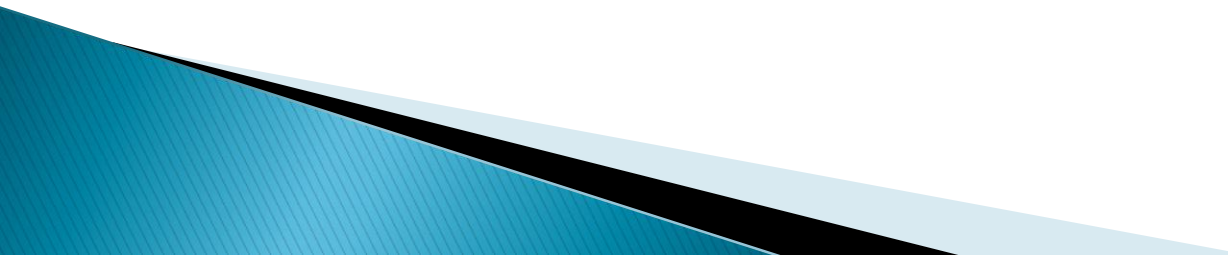


MS4 Designation

- ▶ DHEC is required to determine which entities must obtain NPDES permits for their stormwater discharges
 - ▶ Process known as “Designation”
 - ▶ Procedures for designation outlined in R.61-9.1-2-32(f) and (g)
 - ▶ Waivers
- 

MS4 Designation

► Designation Criteria

- Presence of MS4 in Urbanized Area – Most recent census
 - Stormwater discharges are causing or contributing to a violation of a water quality standard
 - MS4 includes a high percentage of impermeable area
 - Hospitals, prisons, educational institutions
- 

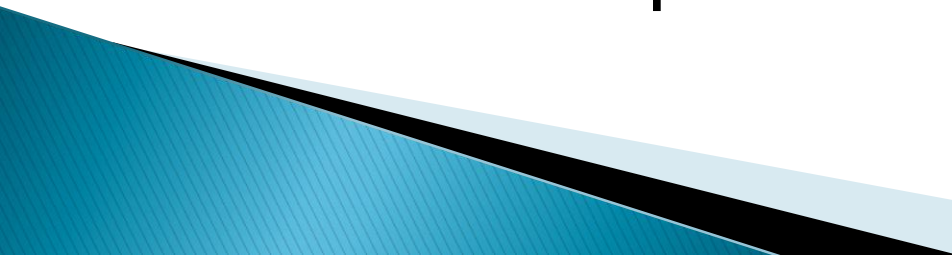


Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013

Identified for Designation Based on 2010 Census

Entity	County	Urbanized Area
Town of New Ellenton	Aiken	Augusta
Edgefield County	Edgefield	Augusta
Town of Moncks Corner	Berkeley	Charleston
Lancaster County	Lancaster	Charlotte
Town of Blythewood	Richland	Columbia
Town of Gaston	Lexington	Columbia
Town of Chapin	Lexington	Columbia
City of Darlington	Darlington	Florence
Town of Timmonsville	Florence	Florence
Town of West Pelzer	Anderson	Greenville
Town of Williamston	Anderson	Greenville
Town of Pendleton	Anderson	Greenville
City of Clemson	Anderson/Pickens	Greenville
Town of Central	Pickens	Greenville
Town of Norris	Pickens	Greenville
Town of Bluffton	Beaufort	Hilton Head
Beaufort County	Beaufort	Hilton Head
Town of Hilton Head Island	Beaufort	Hilton Head
Town of Reidville	Spartanburg	Spartanburg
Town of James Island	Charleston	Charleston

MS4 Designation Process

- ▶ *Step 1:* Meet with MS4s identified for Designation
 - ▶ *Step 2:* Send Letter to MS4 formally designating them – triggers 180 clock to submit Notice of Intent (NOI)
 - ▶ *Step 3:* MS4 works to prepare application and develop SWMP
 - ▶ *Step 4:* MS4 submits NOI
 - ▶ *Step 5:* DHEC staff reviews NOI and SWMP and issues permit coverage
- 

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South Carolina Department of Health and Environmental Control
Promoting and Protecting the Health of the Public and the Environment

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www.youtube.com/scdhec



Water Quality Monitoring Program Beaufort County

Project Status Update
for the
Beaufort County Storm Water Management
Utility Board
February 5, 2014

Year 6 Draft Annual Report

- Year 6 Overview
- Water Quality Program Review Follow-Up
 - Existing Water Quality
 - Long-Term Trends



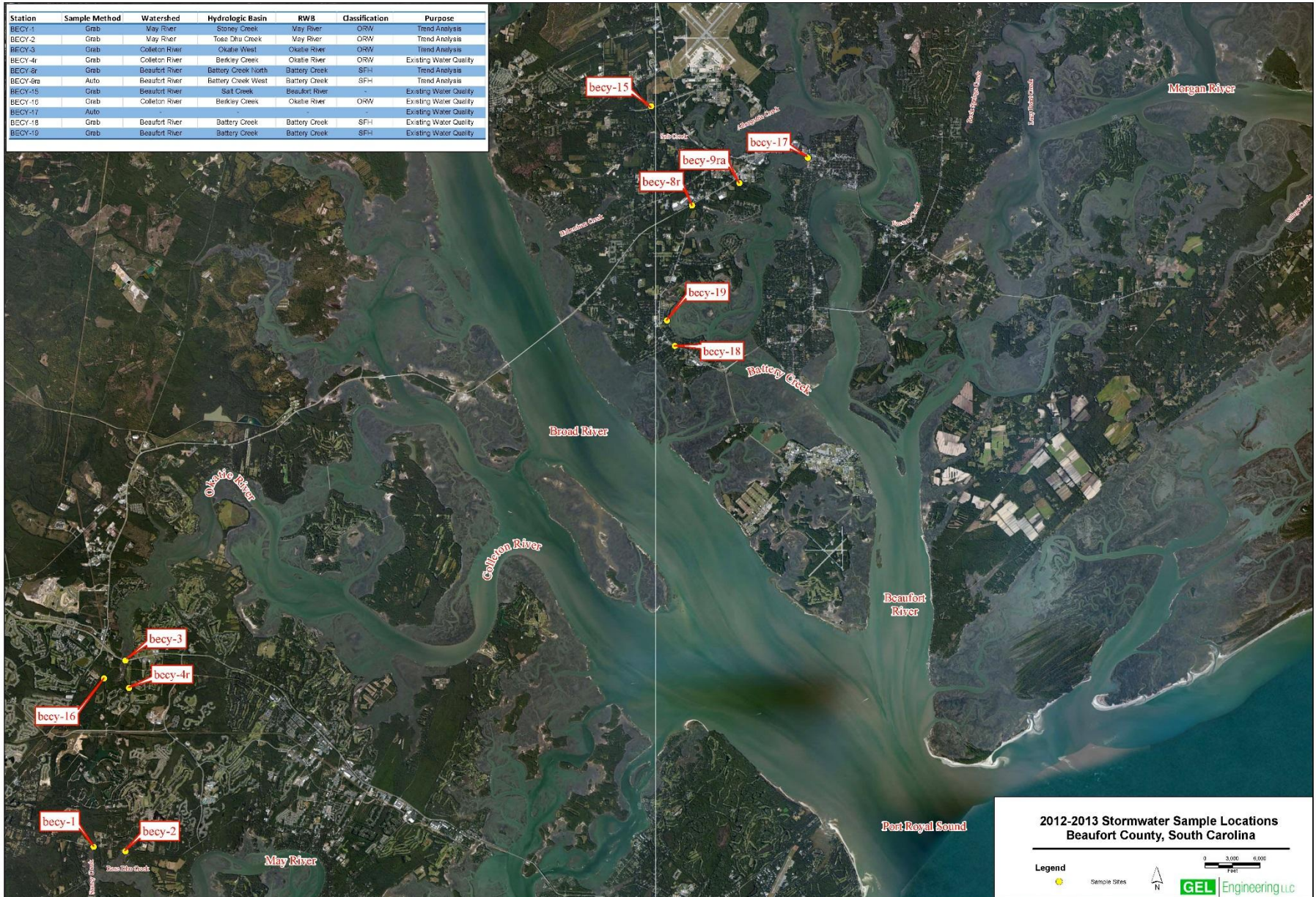
Year 6 Activities & Observations

- No modifications to sample locations or parameters
- Fecal Coliform – Elevated at all stations
- BECY-15 – Elevated phosphorus during previous year
- No other routine exceedances



Sample Locations

Station	Sample Method	Watershed	Hydrologic Basin	RWB	Classification	Purpose
BECY-1	Grab	May River	Stoney Creek	May River	ORW	Trend Analysis
BECY-2	Grab	May River	Tooe Ditts Creek	May River	ORW	Trend Analysis
BECY-3	Grab	Colleton River	Oklatie West	Oklatie River	ORW	Trend Analysis
BECY-4r	Grab	Colleton River	Berkeley Creek	Oklatie River	ORW	Existing Water Quality
BECY-8r	Grab	Beaufort River	Battery Creek North	Battery Creek	SFH	Trend Analysis
BECY-8ra	Auto	Beaufort River	Battery Creek West	Battery Creek	SFH	Trend Analysis
BECY-15	Grab	Beaufort River	Salt Creek	Beaufort River	-	Existing Water Quality
BECY-16	Grab	Colleton River	Berkeley Creek	Oklatie River	ORW	Existing Water Quality
BECY-17	Auto	Beaufort River	Battery Creek	Battery Creek	SFH	Existing Water Quality
BECY-18	Grab	Beaufort River	Battery Creek	Battery Creek	SFH	Existing Water Quality
BECY-19	Grab	Beaufort River	Battery Creek	Battery Creek	SFH	Existing Water Quality



Year 6 Activities & Observations

- No modifications to sample locations or parameters
- Fecal Coliform – Elevated at all stations
- BECY-15 – Elevated phosphorus during previous year
- No other routine exceedances



Year 6 Activities & Observations

- Open Water Copper Sampling
 - Port Royal Sound (Broad River) on 303(d) Impaired Water List
 - TMDL Scheduled for 2021
 - Must implement Quality Assurance Program Plan (QAPP) to remove
 - Initial samples above regulatory limit
 - Decided not to pursue QAPP



Water Quality Program Review Follow-Up

- Water Quality Data Evaluation
 - Baseline Water Quality
 - Trends



Water Quality Program Review Follow-Up

- **Baseline Water Quality**
 - Results continue to indicate good water quality
 - Continue monitoring for Baseline Water Quality for 3-4 years
 - BECY-4r, BECY-15, and BECY-16 have at least 3 years of data



Water Quality Program Review Follow-Up

- Long-Term Trends
 - Ammonia & Total Kheldahl Nitrogen at BECY-1, BECY-2, and BECY-3.
 - Did not continue in Year 6
- Continue to Monitor at Trend Stations



Questions?





BEAUFORT COUNTY STORMWATER UTILITY
120 Shanklin Road
Beaufort, South Carolina 29906
Voice (843) 255-2801 Facsimile (843) 255-9478



March 5, 2014

Stormwater Manager's report for the Stormwater Utility Board Meeting

Monitoring Update

1. USCB lab update on setup, training, and certification – Danny Polk has been meeting with representatives with GEL Engineering and the USCB lab and training on the field procedures and locations has begun. Training is almost complete and the certification process is ongoing.

Utility Update

1. DHEC and MS4 update – See attached memo. Also, DHEC staff will be presenting at today's meeting.
2. Proposed Carolina Jellyball processing facility in Lobeco and unloading facility on Golden Dock Road in St. Helena Island – The County Planning Department and Stormwater Utility Department have negotiated a scope of services with ATM, Inc. to review the proposed project submittals. The applicant has not submitted anything to date. Planning Department reported to me that the applicant has been contacted concerning the unloading dock construction. They have been instructed to submit a development plan to the DRT and to post a bond to cover the removal of the new concrete slab if the County denies the plan.
3. Continuing to review a drainage issue on H.E. McCracken Circle in Bluffton. Meetings between the County and Town of Bluffton to discuss a proposed solution are pending.
4. Budget preparation is on-going. Additional staff requests will be submitted next week.
5. Forby Tract – See attached memo / recommendation and reference map.
6. Larson, Wallace, and Polk will be attending the SESWA spring conference in April. It includes a session by EPA Region 4.
7. Infrastructure crew performed on-going maintenance needs. Significant involvement by the Stormwater Manager involved a retrofit to Basil Green Park, easement issue on Queens Road, and preliminary planning for subscribing to the PUPS 811 service.

Professional Contracts Report

1. See Discussion on consultant procurement for the Carolina Jellyball application.
2. A RFP should be going out within the next two weeks to solicit proposals for a stormwater consultant to assist with the setup of the MS4 program.

3. Water Budget Study – the study should be complete in the next two months. Dr. Badr will be presenting the findings to the Board in the upcoming months.
4. Okatie East BMP monitoring – Now that the project is complete, we should begin monitoring the volume and water quality from the basin to determine if the improvements are meeting the designed goal. I recommend retaining Ward Edwards, the project consultant, to assist the County with data collection and analysis.

Regional Coordination

1. US 278 retrofit ponds – Bid due date has been extended again pending changes to one of the ponds and access changes.
2. County Admin. Complex Retrofit Project – Revisions to the plans are complete and the project should be advertised within the next 30 days.
3. Battery Creek Pond – Still in design phase. (Lamar Taylor will report)
4. Stoney Creek – (Kim Jones will report)
5. Okatie 319 grant – Project is wrapping up work. LCOG is beginning work on the final report. I am providing matching cost data from the Okatie East Basin and US 278 pond projects.
6. Salinity Study - On going. Nothing new to report.
7. Sea Level Rise and future planning – County Planning department is facilitating a research project with the S.C. Sea Grant Consortium to determine the County's vulnerability and consequences of sea level rise. Stormwater is actively participating in the study. There is no cost to the Utility.



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INTEROFFICE MEMORANDUM

TO: Bryan Hill, Deputy County Administrator
Beaufort County Stormwater Utility Board

FROM: Eric W. Larson, Stormwater Manager

SUBJECT: Land Acquisition for Stormwater Capital Project – Forby Tract

DATE: February 24, 2014

Per our discussion on February 10, 2014, the County is currently contemplating the purchase of the entire Forby tract along US 278 and I was requested to review this situation to determine if any justified stormwater use could be made of the property.

The 2006 Beaufort County Stormwater Management Plan (due to be updated next year), identified numerous locations on the SCDOT roadway system where cross drain pipes are potentially undersized and roadway overtopping may occur. At Sawmill Parkway on US 278 (Fording Island Road) the 3 – 30” RCP SCDOT cross drains are identified as potentially insufficient to convey the 100-year storm event, possibly resulting in overtopping of the roadway. The Forby tract is part of a fresh water wetland system that extends upstream under Bluffton Parkway and into the Heritage Lakes Development, receiving runoff from an approximately 310 acre watershed consisting of mostly residential development. The runoff from this sub-watershed crosses US 278 at this location and enters the Colleton River. The river is not currently impaired from pollution.

By supplementing the land acquisition cost for the frontage road with stormwater funds, the frontage road could potentially be re-designed with a staged control release structure for stormwater. The re-design will require a thorough hydrology study of the watershed to determine volumes and the effect the existing upstream lagoons have on peak flow and water quality. This study could cost another \$35,000-\$40,000 and will almost certainly indicate an increase in the tail water elevations in the lagoons if water is ponded on the Forby tract. Army Corps of Engineers permitting of the Bluffton Parkway project required proof that this would not occur. Any alteration of these existing wetlands will require additional Army Corps of Engineers approval.

The County has numerous existing water quality projects identified, all of them related to known stream impairments. At this time there are no projects related to roadway overtopping that the County has implemented as a result of the Management Plan or the approved 2011 Regional Stormwater Quality BMP Retrofit Project report. Should this project be undertaken, the cost would encumber a significant portion of additional available funding and would delay higher priority projects.

Therefore, if the use of Stormwater Utility funds is planned to supplement the frontage road land acquisition budget to acquire the Forby tract in total, then funds should also be earmarked to supplement the re-design and construction of the frontage road, including a hydrology and hydraulic model of the wetland's watershed to determine the feasibility of the stormwater component and to properly size the road's stormsewer conveyance to meet the goals set forth by the Utility for water quality and public safety. Finally, the County should anticipate the need to pay for wetland mitigation by enhancement or use of the USCAE Wetland Bank program.



D/W

D/W

FRONTAGE RD

FORDING ISLAND RD

FORDING ISLAND RD

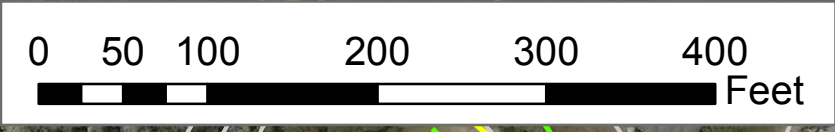
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**R600-40-134
Forby Tract
2013 Aerial**

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





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April 2, 2014

Stormwater Manager's report for the Stormwater Utility Board Meeting

Utility Update

1. DHEC and MS4 update – We continue to develop a plan for implementation of the MS4 program. I have been interviewing other MS4 programs across the state to learn how others are implementing their programs and how they are sharing tasks between multiple jurisdictions. I will be addressing the Natural Resources Committee in May to provide an overview of the MS4 program and the status of our County Stormwater program.
2. Budget for FY15 – Submitted in early March. We are awaiting feedback from the County Administrator's office.
3. Public Education Effort / Dog Waste Education – We recently partnered with the Solid Waste Division to create a brochure educating pet owners about pollution from fecal deposits. Recycling paid for baggie dispensers that clip onto leashes and Stormwater paid for printing of the brochures. They will be distributed to new pet owners that adopt from the County Animal Shelter.
4. Earth Day 2014 – I am considering partnering with the Friends of the Bluffton Dog Park to distribute dog waste baggie dispensers and brochures during the May River Clean-Up and Earth Day Celebration on Saturday April 26th. We may also distribute materials at other events associated with Earth Day.
5. Larson, Wallace, and Polk will be attending the SESWA spring conference next week. It includes a session by EPA Region 4.
6. Larson, Polk, Kim Jones (Bluffton) and Jeff Buckalew (HHI) attended the quarterly meeting of the SCASM earlier this month. Topics ranged from a DHEC update, post-construction BMP design and inspection, and BMP inventory
7. I attended a training seminar on March 25th. "Current Stormwater Issues in South Carolina". This was training intended for me to get better acclimated to state regulations.
8. Promotions – Danny Polk was promoted to Stormwater Utility Inspection Supervisor and Seth Stanbery was promoted to Stormwater Infrastructure and MS4 / GIS Data Manager. These promotions are some of the first changes to be made to implement the MS4 permit and reflect our changing needs in inspection and data management. Evelyn Sutton was also promoted to Utility Operations Coordinator to reflect a change with her job duties related to utility locates and pending implementation of providing 811 locates of our stormsewer system.

Monitoring Update

1. USCB Lab – County Council has established an action item to develop a strategic plan for the “next steps” of the water quality lab, specifically the implementation of the plan to utilize the lab for all water quality monitoring efforts by the County and others. I have met with Dr. Warren and begun the process of outlining the plan. The Council would like to see the plan in place by January 2015.
2. The Town of Port Royal has asked me to revisit a monitoring plan for the area near shellfish station 15-25. It is located in the Dowlingwood Tributary of Battery Creek. It is the only site impaired within the watersheds within the limits of the Town of Port Royal. Danny Polk and Dan Ahern had looked into this before and performed sampling at several locations in the vicinity of Parris Island Gateway and Savannah Highway intersection. As we move forward, we will try to identify sources of fecal contamination and develop potential project concepts.

Stormwater Implementation Committee (SWIC) Report

1. The SWIC met on March 12th. The topics were the [Stormwater Management fee budget for FY15](#) and Illicit Discharge, Detection, and Elimination (IDDE) program needs. ([See attached draft minutes](#))

Stormwater related Projects

1. Proposed Carolina Jellyball processing facility in Lobeco and unloading facility on Golden Dock Road in St. Helena Island – No action since last report.
2. Drainage issue on H.E. McCracken Circle in Bluffton – I recently met with Town staff to discuss recent field investigations and potential solutions. Town of Bluffton staff is going to conduct more field work. County staff will be assisting with providing cost estimates for alternatives.
3. Bluffton Gateway Development Agreement – I am in the process of reviewing the stormwater design for the proposed site. The applicant has requested a modification to the “10% effective imperviousness” requirement in the BMP Manual. Therefore, before the development agreement is approved by the County Council, the Natural Resources Subcommittee for the agreement has asked me to prepare an opinion on the design and the modification request. A meeting with the sub-committee and the applicant is scheduled for April 4, 2014.
4. Infrastructure crew performed on-going maintenance needs. There are several needs throughout the County that I, as the Stormwater Engineer, will be involved in over the next couple of months trying to find a solution.

Professional Contracts Report

1. US 278 retrofit ponds – Bid due date has again been extended again pending changes to one of the ponds and access changes. Changes are made and an addendum is pending.

Permit modifications with DHEC and the County DRT are in process. SCDOT permits are approved but likely not needed due to plan changes.

2. County Admin. Complex Retrofit Project – The project is currently out for bid. A Per-bid conference was held March 17th.
3. Consultant procurement for the Carolina Jellyball application is still on hold pending a submittal from the applicant.
4. A RFP for a stormwater consultant to assist with the setup of the MS4 program is also on hold pending development of a MS4 implementation strategy.
5. Water Budget Study – I have received a draft of the final report and will be reviewing it over the next month. Dr. Badr will be presenting the findings to the Board in the upcoming months.
6. Okatie East BMP monitoring – I am awaiting a proposal from Ward Edwards to assist the County with data collection and analysis for the volume control study recommended by the Board last month.
7. Forby Tract – After receiving two proposals from firms with previous experience with the site and issues, I, along with the County Administrator's office, decided not to pursue the study or the purchase of the site using Stormwater Utility Funds. Costs for the study work were rather high, probably due to the short deadline, and we were concerned that the project need would not be justified.
8. Trask Parkway and Paige Pointe Overtopping studies – Andrews and Burgess are finishing up these two projects initiated by Mr. Ahern and Mr. Klink last year. Results will be added to our list of potential retrofit projects.

Regional Coordination

1. Battery Creek Pond – Still in design phase. (Lamar Taylor may report)
2. Stoney Creek – RFP for consultant currently is being advertised. (Kim Jones may report)
3. Salinity Study - On going. Nothing new to report.
4. Sea Level Rise and future planning – On going. Nothing new to report.
5. Okatie 391 Grant – Nothing new to report.



SW Utility Funding For FY2015

SWIC Meeting
March 12, 2014

Outline

- 2013 Accomplishments
- On-going Projects and Issues
- Major Challenges
- Total SW Fees Collected in TY2012
- Calculating the Single Family Units (SFUs)
- FY2015 Deliverables
- FY2015 Budget and Budget/SFUs
- FY2015 (& FY2016) Cost-Shares
- Questions

2013 Accomplishments

- Funded development of USCB Lab
- Okatie East Retrofit project
- Cost share with CoB on Battery Creek 319 grant project
- Lidar and 2013 DEM
- Began Salinity Study and Water Budget Study
- Others?

Initiatives In Progress

- Complete the Salinity and Water Budget Studies
- Implementing the WQ Lab
- Improve mapping / determine MS4 outfalls
- Develop a pond maintenance system
- MS4 permit development
- Establishing MS4 programs (IDDE, Const. RO, PC-BMP)

Initiatives In Progress Con't

- Implement priority WQ retrofit projects to include establishing a CIP Fund
 - Highway 278 ponds
 - County Admin Bldg.
 - Others in planning stages

Initiatives In Progress Con't

- Battery Creek, Okatie River, and May River watershed restoration activities
- Expand County's EOS
- Implement 811 system for utility locates
- Others?

Major Challenges

- Continue implementation of the Watershed Restoration Plan
 - Explore incentives
- Developing a new 10-Yr SW Management Plan (FY16)
- Implementing the expected MS4 permit
- Incorporating findings of Water Budget Study and Salinity Study

Major Challenges

- Evolve the SWIC and Utility Board
- Increase level of partnerships on Stormwater programs
- Others?

TY2012 Total Collected (as of Oct. 31, 2013)

	TY2011	TY2012
Port Royal	\$162,333	\$168,765
Beaufort	517,771	840,810
HHI	3,566,876	3,564,900
Bluffton	1,064,664	1,098,409
Unincorp BC	2,834,164	2,818,178
Total Collected	\$8,145,808	\$8,491,062

Single Family Unit Analysis (TY2012 as of Oct. 31, 2013)

Jurisdiction	Collected	SFUs	SFU %
Port Royal (50)	\$ 168,765	3,375	3.02%
Beaufort (105)	840,810	8,008	7.17%
HHI (108.7)	3,564,900	32,796	29.35%
Bluffton (98)	1,098,409	11,208	10.03%
Unincorp BC (50)	2,818,178	56,364	50.44%
Total Billing	\$8,491,062	111,751	100.00%

County Division of Duties

- 3 different units
 - Management
 - Activities (Infrastructure)
 - Capital Projects
- Regulatory (coming later next year)

FY2015 Deliverables

- Implementation of the SMMP
 - Control Regulations – Step 2 Exemptions, Web-program Updates, etc.
 - MS4 program elements
 - IDDE
 - Const. Runoff
 - Post Construction BMPs

FY2015 Deliverables Con't

- Implementation of the SMMP cont.
 - WQ Monitoring – County-wide and weekly fecal testing. This will expand to include the MS4 outfalls and parameters
 - WQ Controls (Existing Development) – Restoration Activities
 - Annual Maintenance (O&M) – Coordination & reimbursement

FY2015 Deliverables Con't

- Public Information/Outreach – Contract management, webcasts, presentations, etc.
- Drainage (PSMS) Enhancement – Review of identified overtoppings, coordination, etc.
- Additional Studies – Water budget study, salinity study, etc.
- Coordination on all levels
 - Meetings/presentations/conference calls

FY2015 Deliverables Con't

- Fee Collection/Distribution
 - Reconciliation & reporting, monthly distributions, tax sale costs, identifying & pursuing delinquent fees
- Fee Determination/Rate Increase
 - 3,586 parcel change reviews, 32,052 reviewed from requested exception reports, SFU rate change, incorporating ordinance change if necessary

FY2015 Deliverables Con't

- Credits
 - Respond to implemented changes to the Credit and Adjustment Manual
- Fee Inquiries
 - 104 inquiries, 84 fee modifications
- Fiscal Requirements
 - Annual budget, budget reconciliation, presentations (SWIC, SW Board), contract reviews

FY2015 Deliverables Con't

- Maintain Easement/Drainage Layers
 - Identifying/incorporating work into drainage Review/incorporating drainage easements
- Admin Support to SW Board
 - Agenda, presentation development, minutes, broadcast & recording
- Maintaining SWU Website
 - Posting documents, updating information, review of usage

FY2015 SFUs

Requested Budget: \$313,460

Requested Budget/SFU: \$2.80

Port Royal (50)	\$	9,468	(5.61%)
Beaufort (105)		22,462	(4.32%)
HHI (108.7)		91,992	(2.58%)
Bluffton (98)		31,439	(2.86%)
Unincorp BC (50)		<u>158,100</u>	<u>(5.61%)</u>
Total		\$313,460	

Cost Share Proposals for FY2015

- Public Education / Outreach
- Water Quality Monitoring (No. of Broad)

FY2015 Cost-Share Estimate

Public Education/Outreach: \$50,000

	To Be Billed in FY2015
Port Royal	\$1,510
Beaufort	3,583
HHI	14,674
Bluffton	5,015
Unincorp Beaufort	25,218
	\$50,000

FY2015 Cost-Share Estimate

WQ Monitoring North of the Broad: \$60,000

	To Be Billed in FY2015
Port Royal	\$5,001
Beaufort	11,906
Unincorp Beaufort	43,093
	\$60,000

FY2016 Cost-Share Estimate

SMMP Revision: \$100,000

	To Be Billed in FY2016
Port Royal	\$3,020
Beaufort	7,166
HHI	29,347
Bluffton	10,030
Unincorp Beaufort	50,437
	\$100,000

Deadline Reminders

- Budget Numbers from Towns and City
 - Amount budgeted for County SWI to perform work within your jurisdictional boundary
 - Need ASAP – County budget due NOW!

Deadline Reminders

- Per the IGA, written agreement with the proposed administrative fee is due back to the County by April 15
- Report to the County on SWU fee expenditures for the previous fiscal year due Sept. 1 (for ToHHI, ToPR, and CoB; ToB upon request)

DRAFT Minutes for SWIC March 12, 2014
BJWSA Community Room, 6 Snake Road, Okatie, SC 29909
1:30 pm - 3:30 pm

1. Introductions
Attending: Kim Jones (ToB), Bryan McIlwee (ToHHI), Bates Rambow (ToHHI), Carolyn Wallace (BC), Seth Stanbery (BC), Danny Polk (BC), Eric Larson (BC), Lamar Taylor (CoB), and Tony Maglione (representing ToPR)
2. Approval of Minutes from Jan. 31, 2014
Approved by common consent
3. County Management fee budget for FY 2015 -Presentation by Larson (See attachment of slide presentation)

Comments on accomplishments:

- Seth to coordinate LIDAR delivery.
- Other accomplishments by the County not previously mentioned - education (Kiosk), monitoring.
 - Port Royal mapped all of Outfalls and developed a restoration repair plans for all Outfalls.
 - Town of Bluffton finished their first May River 319 grant.

Other Initiatives in progress not mentioned in the presentation:

- **Danny suggested attending an annual conference offered for pond maintenance. Danny and Eric will get details and share with the group.**
- Town of Bluffton has the Stoney Creek wetland project. RFQ for consulting out now.
- Town of Bluffton has second 319 grant on May River underway.
- Town of Bluffton has continuing system inventory and public outreach.
- ToHHI working on the Upper Broad Creek 319 grant.
- ToHHI is developing an inventory of gated areas.
- Everyone has water quality monitoring ongoing.
- City of Beaufort has several LID projects underway. Duke Street Phase II and Allison Road.
- Town of Bluffton Public Works has ongoing ditch maintenance, CDBG grants for sanitary sewer, streetscape projects with LID.
- ToPR has a new PD station project that will have demonstration project in parking lot. (pervious pavement likely)
- ToPR- ORCM has agreed to allow larger regional stormwater facilities in the Cypress Wetland to reduce need for small on-site detention by development. This is a type of stormwater "banking" for quantity. On site water quality pre-treatment still likely. First project is the Parker's gas station.
- ToPR - Feasibility project underway to intercept Ribaut Road run off and divert to the Cypress Wetland from creek on Old Shell Road. This will allow to restoration of the existing creek.

Major challenges

The concept of an "evolved" Utility Board" was discussed. There is concern that the Board would start mandating how the municipalities would spend their money. Eric noted that this would not

be the intent but rather promote regional, partnering efforts to improve water quality, not day to day operations (partnering efforts on MS4 tasks may be the exception). Eric did note that if the Board was re-organized to have voting members from the Towns and City, there would be implied accountability back to the Board. This is a topic to be discussed further at future SWIC meetings.

Next Steps:

Larson noted the reporting requirements outlined in the IGA. **The format of the report needs to be defined.** This will be an agenda item for a future SWIC meeting.

Action Items for Eric:

Edit slides.

- **Fix City of Beaufort rate typo.**
- **Remove "What If" scenario from official handout.**

Email slides to group.

4. MS4 Program Elements MCM 3 through 5

1. Illicit Discharge Detection and Elimination (IDDE)

a. Ordinance

ToB has IDDE in code but doesn't effectively cover enforcement. CoB, ToPR, and the County don't have one.

ToHHI has draft Ordinance based on Carolina Clear template.

ToB - Regulation is online on their website. Sect 5.10.5 of the Unified Development Ordinance. Language prohibits illicit discharge, allows exceptions, etc. Enforcement is through Article 8 and performed by Code Enforcement.

ToB does not have a written screening program.

ToHHI - Draft ordinance has prohibition and exceptions. They do not have a written screening program.

IDDE SOP / Written Plan - Eric suggested partnering to develop the plan. All agreed.

The use of a consultant is questionable. Some think doing in-house is possible and use of a consultant may not be necessary. County may hire someone for them if doing alone and offered to help others no cost. Group consensus was that this is an opportunity to partner and show a cost savings and therefore it should be the **SWIC working together to develop the draft** without consultant help. This can be a working topic for a future SWIC meeting.

b. System Mapping

Beaufort County has GIS mapping that includes ditches, pipes, easement, but it not complete. County is willing to share data with everyone. Seth and Eric noted that the County is migrating to an ArcServer so that all can view data over the web.

ToHHI has inventory. They are mapping all pipes, structures, etc. About 1/3 done.

Should be done by FY19. Study includes master planning, modeling with XPSWWM.

They are using Mark Renew with Sea Island Surveying as consultant for field work.

Using an Arc Pad mobile app. for data collection. They are willing to share application.

County says they also have access to that application. ToHHI is willing to share data.

ToB has two tech doing GIS in house. Doing inventory, citizen complaints, etc. Focus has been in headwaters in May River, which means they are doing un-incorporated areas too. Modeling using XPSWWM. They are willing to share data.

CoB uses County services.

ToPR has mapped Outfalls. They do not have map of all of system but adding as time permits. No deadline. Gives data to County and therefore willing to share. They do not have a GIS system.

c. Public Reporting Mechanism(s)

Beaufort County has phone number and email on website. No one else has a "hotline" phone number or website but do have contact information on their websites.

Eric noted tools such as web based reporting system for citizen use. This might be another opportunity to find a good reporting tool for citizen use and share among the group.

Kim suggested speaking with the "Clean Marine" event from a few years ago. They had a way for citizens to report to public agencies needs for clean-up. Contact information is Amber Von Harten, formerly Sea Grant locally but now in a different division. Carol Murphy with the County may know as well.

d. Inspection program

ToB has two techs. doing inventory and one inspector doing EPSC inspections. They are not planning to expand staff this year. Maybe in FY16.

ToHHI - Existing staff of three, likely to use Code Enforcement for enforcement action. Asking for one new staff in FY15 but may not get funded.

CoB, ToPR, and County don't have anything in place.

e. Staff Training - Not discussed. However, this is a likely need to enable staff to implement the written programs.

2. Construction Run-off - Not discussed.

3. Post-Construction Water Quality - Not discussed.

5. Future meeting schedule

Continue to meet monthly. Next month April 9 won't work due to SESWA conference. Next mtg. April 3 at 1:30pm. **Eric will confirm meeting space.**

Next topic. Public Education and Outreach. It was decided to meet and discuss options before bringing in others to discuss potential partners.

6. Carpooling to SCASM March 19, 2014 - Eric, Danny, Lamar, Kim, Jeff Buckalew, and Jeremy Ritchie going. **Eric offered carpooling.**

7. Adjourn

UNAUDITED AND PRELIMINARY
BEAUFORT COUNTY, SOUTH CAROLINA
STATEMENT OF NET ASSETS
Stormwater Utility
February 28, 2014 & February 28, 2013

	<u>February 28, 2014</u>	<u>February 28, 2013</u>
<u>ASSETS</u>		
Current Assets		
Cash and Investments with Trustee	\$ 4,011,031	\$ 3,624,103
Receivables, Net	13,394	2,334
Inventories	92,511	102,941
Total Current Assets	<u>4,116,936</u>	<u>3,729,378</u>
Capital Assets	2,867,057	2,841,893
Accumulated Depreciation	<u>(2,102,440)</u>	<u>(2,023,236)</u>
	764,617	818,657
Total Assets	\$ 4,881,553	\$ 4,548,035
<u>LIABILITIES</u>		
Liabilities		
Account Payable	84,831	283,826
Accrued Payroll	51,908	32,550
Accrued Compensated Absences	6,247	4,470
Total Current Liabilities	<u>142,986</u>	<u>320,846</u>
Long Term Liabilities		
Accrued Compensated Absences	55,379	64,937
Net Other Postemployment Benefits Obligation	813,301	672,821
Total Long Term Liabilities	<u>868,680</u>	<u>737,758</u>
Total Liabilities	1,011,666	1,058,604
<u>NET ASSETS</u>		
Invested in Capital Assets, Net of Related Debt	764,617	818,657
Reserved for Encumbrances	283,124	429,061
Unrestricted	<u>2,822,146</u>	<u>2,241,713</u>
Total Net Assets	<u>\$ 3,869,887</u>	<u>\$ 3,489,431</u>

Unaudited and Preliminary
BEAUFORT COUNTY, SOUTH CAROLINA
STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS
Stormwater Utility
For the Period Ended February 28, 2014

	Budget FY 2014	February 28, 2014	Budget to Actual	Percent of Budget
Operating Revenues				
Stormwater Utility Fees	\$ 3,475,000	\$ 3,236,645	(238,355)	93%
Stormwater Utility Project Billings	60,023	11,534	(48,489)	19%
Total Operating Revenues	<u>3,535,023</u>	<u>3,248,179</u>	<u>(286,844)</u>	<u>92%</u>
Operating Expenses				
Personnel	2,160,475	1,251,995	(908,480)	58%
Purchased Services	961,864	368,812	(593,052)	38%
Supplies	381,446	207,616	(173,830)	54%
Depreciation	242,119	161,416	(80,703)	67%
Total Operating Expenses	<u>3,745,904</u>	<u>1,989,839</u>	<u>(1,756,065)</u>	<u>53%</u>
Operating Income (Loss)	(210,881)	1,258,340	1,469,221	-597%
Non-Operating Revenues (Expenses)				
Gain (Loss) on Sale of Capital Assets	-	(31,113)	(31,113)	0%
Interest Earned	6,922	-	(6,922)	0%
Total Non-Operating Revenues (Expenses)	<u>6,922</u>	<u>(31,113)</u>	<u>(38,035)</u>	<u>0%</u>
Change in Net Assets	(203,959)	1,227,227	1,431,186	-602%
Net Assets, Beginning	<u>2,642,660</u>	<u>2,642,660</u>		
Net Assets, Ending	<u>\$ 2,438,701</u>	<u>\$ 3,869,887</u>	1,431,186	159%

Unaudited and Preliminary
 BEAUFORT COUNTY, SOUTH CAROLINA
 STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS
 Stormwater Utility
 For the Period Ended February 28, 2013

	Budget FY 2013	February 28, 2013	Budget to Actual	Percent of Budget
Operating Revenues				
Stormwater Utility Fees	\$ 3,469,180	\$ 2,846,900	(622,280)	82%
Stormwater Utility Project Billings	370,664	19,900	(350,764)	5%
Total Operating Revenues	<u>3,839,844</u>	<u>2,866,800</u>	<u>(973,044)</u>	<u>75%</u>
Operating Expenses				
Personnel	2,014,323	1,229,190	(785,133)	61%
Purchased Services	1,296,188	517,405	(778,783)	40%
Supplies	426,597	182,052	(244,545)	43%
Depreciation	273,545	182,368	(91,177)	67%
Total Operating Expenses	<u>4,010,653</u>	<u>2,111,015</u>	<u>(1,899,638)</u>	<u>53%</u>
Operating Income (Loss)	(170,809)	755,785	926,594	-442%
Non-Operating Revenues (Expenses)				
Interest Earned	11,389	-	(11,389)	0%
Total Non-Operating Revenues (Expenses)	<u>11,389</u>	<u>-</u>	<u>(11,389)</u>	<u>100%</u>
Change in Net Assets	(159,420)	755,785	915,205	-100%
Net Assets, Beginning	<u>2,733,646</u>	<u>2,733,646</u>		
Net Assets, Ending	<u>\$ 2,574,226</u>	<u>\$ 3,489,431</u>	915,205	136%

Beaufort County Public Works Stormwater Utility

Preliminary Budget Comparison

Revised Date: March 28, 2014

Unaudited Projected Revenue

FY2014	Requested Board Budget	FY2015	Requested Board Budget
Revenue		Revenue	
Admin SWU Fees	312,064	Admin SWU Fees	313,460
Utility Activities SWU Fees	3,162,936	Utility Activities SWU Fees	2,814,138
Total Revenue from SWU Fees	3,475,000	Total Revenue from SWU Fees	3,127,598
Reimbursable Projects	2,500	Reimbursable Projects	2,500
Interest	6,923	Interest	2,955
Gain on Sale of Capital Assets	-	Gain on Sale of Capital Assets	-
Cost-Share for Joint Efforts	57,522	Cost-Share for Joint Efforts	41,689
Reserve Utilization		Reserve Utilization	
Del Webb Agreement Fund	-	Del Webb Agreement Fund	-
Stormwater Utility	-	Stormwater Utility	413,581
	3,541,945		3,588,323

Efforts (Expenditures)

FY2014		FY2015	
Admin	312,064	Admin	323,941
Utility Activities		Utility Activities	
UA/Control Reg	73,147	UA/Control Reg	257,274
UA/WQ Monitoring	160,000	UA/WQ Monitoring	100,020
UA/WQ Controls	200,000	UA/WQ Controls	-
UA/Annual Maintenance	2,679,069	UA/Annual Maintenance	2,803,088
UA/Public Information/Outreach	67,665	UA/Public Information/Outreach	50,000
UA/Drainage Enhancement	25,000	UA/Drainage Enhancement	19,000
UA/Additional Studies	25,000	UA/Additional Studies	35,000
<i>Utility Activities Subtotal</i>	<i>3,229,881</i>	<i>Utility Activities Subtotal</i>	<i>3,264,382</i>
*Reserve Utilization		*Reserve Utilization	
UA/WQ Controls	-	UA/WQ Controls	-
<i>Reserve Utilization Subtotal</i>	<i>-</i>	<i>Reserve Utilization Subtotal</i>	<i>-</i>
Efforts Total	3,541,945	Efforts Total	3,588,323

*Efforts funded by utilizing the reserve are spread among all utility activities.

Change in Capital Assets On Balance Sheet

FY2014		FY2015	
Capital Assets Additions	455,991	Capital Assets Additions	340,604
Depreciation	(242,119)	Depreciation	(192,181)
	213,872		148,423



Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Okatie East Retrofit

Activity: Water Quality

Narrative Description of Project:

Completion: Feb-14

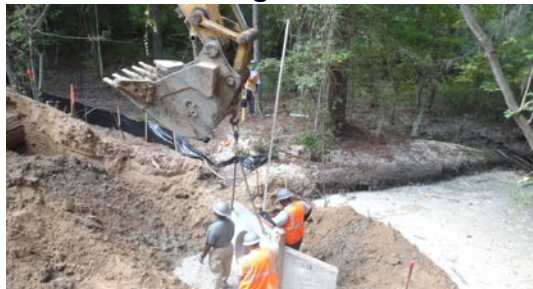
Extensive rework required due to design issues. Grubbed and cleared 1,200 L.F. of access. Removed old structure. Installed (1) precast concrete box, 40 L.F. of channel pipe, (1) headwall, (1) canal gate, (2) access gates and 280 square yards of rip rap for erosion control. Hydroseeded for erosion control.

2012-006 / Okatie East Retrofit	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AGI / Access Gate - Installed	15.0	\$337.44	\$97.62	\$167.26	\$0.00	\$231.85	\$834.16
AUDIT / Audit Project	2.0	\$40.92	\$0.00	\$0.00	\$0.00	\$26.46	\$67.38
AW / Administrative Work	4.0	\$177.08	\$0.00	\$0.00	\$0.00	\$135.84	\$312.92
BKFILL / Back Fill	40.0	\$900.45	\$239.20	\$90.01	\$0.00	\$573.90	\$1,803.57
CBINS / Catch basin - installed	48.0	\$1,090.18	\$329.88	\$2,483.86	\$0.00	\$683.88	\$4,587.80
FLAPGATE / Flapgate - Installed	51.0	\$1,170.23	\$180.82	\$4,878.86	\$0.00	\$772.82	\$7,002.73
HAUL / Hauling	220.0	\$4,766.92	\$2,295.24	\$11,980.11	\$0.00	\$3,176.33	\$22,218.60
HYDR / Hydroseeding	71.0	\$1,649.87	\$184.66	\$510.60	\$0.00	\$1,062.48	\$3,407.61
OFPI / Outfall Pipe - Installation	48.0	\$1,066.49	\$290.85	\$3,125.60	\$0.00	\$679.74	\$5,162.68
ONJV / Onsite Job Visit	119.0	\$3,978.38	\$430.78	\$242.53	\$0.00	\$2,653.49	\$7,305.18
PP / Project Preparation	19.0	\$504.75	\$32.58	\$94.32	\$0.00	\$329.82	\$961.47
PROFS / Professional Services	0.0	\$0.00	\$0.00	\$0.00	\$51,853.33	\$0.00	\$51,853.33
RB / Remove blockage from flowline	4.0	\$88.87	\$7.24	\$11.44	\$0.00	\$57.36	\$164.91
RPWO / Repaired Washout	9.0	\$213.06	\$27.49	\$66.12	\$0.00	\$136.17	\$442.84
RRI / Rip Rap - Installed	110.0	\$2,537.22	\$659.48	\$525.67	\$0.00	\$1,634.10	\$5,356.47
SC / Sediment Control	15.0	\$343.36	\$18.10	\$71.59	\$0.00	\$231.85	\$664.90
SG / Shoot Grade	2.0	\$44.44	\$3.62	\$8.58	\$0.00	\$25.65	\$82.29
UTLOC / Utility locates	2.5	\$98.77	\$7.24	\$11.44	\$0.00	\$74.54	\$191.99
WSBH / Workshelf - Bush Hogged	10.0	\$228.02	\$36.38	\$39.72	\$0.00	\$148.50	\$452.61
WSDR / Workshelf - Dressed	68.0	\$1,483.29	\$303.60	\$243.88	\$0.00	\$946.29	\$2,977.06
WGRB / Workshelf - Grubbed	90.0	\$2,010.14	\$658.80	\$529.51	\$0.00	\$1,293.16	\$4,491.61
2012-006 / Okatie East Retrofit	947.5	\$22,729.87	\$5,803.58	\$25,081.10	\$51,853.33	\$14,874.22	\$120,342.10
Sub Total							
Grand Total	947.5	\$22,729.87	\$5,803.58	\$25,081.10	\$51,853.33	\$14,874.22	\$120,342.10

Before



During



After



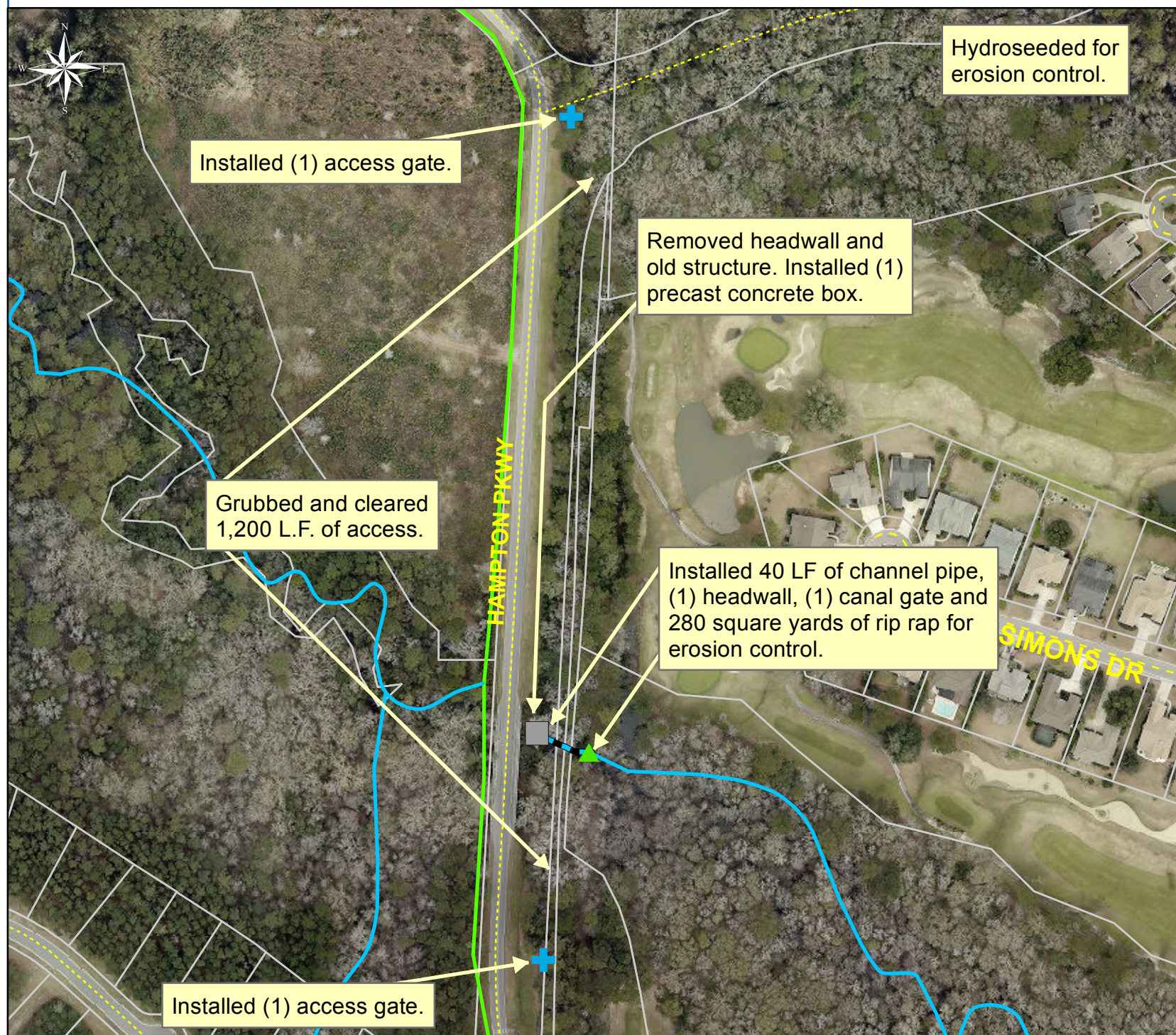
Project: Okatie East Retrofit

Activity: Water Quality

Project #:
2012-006

Township:
Bluffton

Completed:
February 2014



Legend

TYPE

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

0 50 100 200 300 400
Feet

1 inch = 207 feet

Prepared By: BC Stormwater Management Utility

Date Print: 3/20/14

File: C:/sethdata/projects/projectmaps/Okatie E Retrofit 2012-006



Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Forest Field Subdivision

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Mar-14

Project improved 3,851 L.F. drainage system. Removed blockages from flowline. Bush hogged 528 L.F. of channel. Cleaned out 3,331 L.F. of channel and 520 L.F. of roadside ditch. Hydroseeded for erosion control.

2014-573 / Forest Field Subdivision	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.0	\$20.46	\$0.00	\$0.00	\$0.00	\$13.23	\$33.69
HAUL / Hauling	43.5	\$957.36	\$483.09	\$213.50	\$0.00	\$593.00	\$2,246.94
HYDR / Hydroseeding	64.0	\$1,396.81	\$165.82	\$580.50	\$0.00	\$852.92	\$2,996.04
ODCO / Outfall ditch - cleaned out	155.5	\$3,425.95	\$598.67	\$281.77	\$0.00	\$2,195.27	\$6,501.66
ONJV / Onsite Job Visit	11.0	\$399.32	\$39.82	\$34.32	\$0.00	\$288.41	\$761.87
RSDCL / Roadside Ditch - Cleanout	40.0	\$879.51	\$137.06	\$46.76	\$0.00	\$563.70	\$1,627.03
UTLOC / Utility locates	1.0	\$20.46	\$0.00	\$0.00	\$0.00	\$13.23	\$33.69
WSDR / Workshelf - Dressed	20.0	\$444.37	\$127.60	\$60.24	\$0.00	\$297.00	\$929.21
2014-573 / Forest Field Subdivision Sub Total	336.0	\$7,544.23	\$1,552.06	\$1,217.08	\$0.00	\$4,816.75	\$15,130.12
 Grand Total	 336.0	 \$7,544.23	 \$1,552.06	 \$1,217.08	 \$0.00	 \$4,816.75	 \$15,130.12

Before



During



After



**Project: Forest
Field Subdivision
Map 1**

**Activity: Routine/
Preventive
Maintenance**















**Project #:
2014-573**

**Township: Port
Royal Island**

**Completed:
February 2014**

Legend

TYPE

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



0 25 50 100 150 200
Feet

1 inch = 114 feet

Prepared By: BC Stormwater Management Utility

Date Print: 3/18/14

File: C:/sethdata/projects/projectmaps/Forest Field SD 2014-573 Map1

**Project: Forest
Field Subdivision
Map 2**

**Activity: Routine/
Preventive
Maintenance**

**Project #:
2014-573**

**Township: Port
Royal Island**

**Completed:
February 2014**



Legend

TYPE

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

0 90 180 360 540 720
Feet

1 inch = 358 feet

Prepared By: BC Stormwater Management Utility

Date Print: 3/18/14

File: C:/sethdata/projects/projectmaps/Forest Field SD 2014-573 Map2



Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Port Royal Island Bush Hog

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Feb-14

Second Rotation from September 2013 to February 2014. Project improved 96,745 L.F. of drainage system.

Bush hogged 96,745 L.F. of channel. This project consisted of the following areas: Public Works Complex (6,234 L.F.), Bay Pines Road (2,844 L.F.), Shanklin Road (10,251 L.F.), Parker Drive (4,703 L.F.), Hobcaw Drive (1,917 L.F.), Island Tank Drive (416 L.F.), Hilanda Drive (862 L.F.), Schein Loop (3,231 L.F.), Mroz Road (1,491 L.F.), Pinewood Circle (2,086 L.F.), Blacksmith Circle (167 L.F.), Capehart Circle (881 L.F.), Lawson Road (592 L.F.), Laurel Street West (671 L.F.), Pine Grove Road (2,933 L.F.), Burton Wells Road (12,526 L.F.), Cherokee Farms Road (3,550 L.F.), Deloach Avenue (2,274 L.F.), Powell Drive (4,159 L.F.), Stanley Farm Road (1,588 L.F.), Roseida Road (2,783 L.F.), Taylor Street (531 L.F.), Mamie Frazier Lane (597 L.F.), Arnold Drive (1,613 L.F.), County Shed Road (981 L.F.), Rivers Hill Road (76 L.F.), Eastern Road (385 L.F.), Leo Green Road (1,341 L.F.), Mint Farm Drive Pond (4,104 L.F.), Possum Hill Road (2,134 L.F.), Clydesdale Circle (1,429 L.F.), Quarter Horse Road (1,404 L.F.), Pony Avenue (504 L.F.), Mink Point Boulevard (538 L.F.), Evergreen Lane (1,500 L.F.), Riley Road (440 L.F.), Fair Road (1,300 L.F.), Walker Circle (800 L.F.), Highway 21 (2,123 L.F.), Poppy Hill (4,248 L.F.), Cleveland Drive (2,297 L.F.), L.H. Nelson Drive (1,215 L.F.) and Hale Drive (1,026 L.F.)

2014-301A / Port Royal Island Bush Hog	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	2.0	\$40.92	\$0.00	\$0.00	\$0.00	\$26.46	\$67.38
ODBH / Outfall ditch - bushhogged	860.5	\$18,145.38	\$10,725.41	\$2,986.30	\$0.00	\$8,762.61	\$40,619.70
ONJV / Onsite Job Visit	59.5	\$1,955.24	\$211.77	\$228.80	\$0.00	\$1,409.29	\$3,805.10
2014-301A / Port Royal Island Bush Hog Sub Total	922.0	\$20,141.54	\$10,937.18	\$3,215.10	\$0.00	\$10,198.37	\$44,492.18
 Grand Total	 922.0	 \$20,141.54	 \$10,937.18	 \$3,215.10	 \$0.00	 \$10,198.37	 \$44,492.18

Before



During



After





Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Burton Wells Road Channel

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Project improved 2,645 L.F. of drainage system. Cleaned out 2,645 L.F. of channel.

Completion: Feb-14

2014-571 / Burton Wells Road Channel	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
HAUL / Hauling	8.0	\$173.04	\$85.60	\$29.70	\$0.00	\$115.36	\$403.70
ODCO / Outfall ditch - cleaned out	146.0	\$3,332.97	\$1,246.99	\$479.55	\$0.00	\$2,116.92	\$7,176.43
ONJV / Onsite Job Visit	20.5	\$645.12	\$74.21	\$39.59	\$0.00	\$436.12	\$1,195.04
2014-571 / Burton Wells Road Channel Sub Total	175.0	\$4,161.36	\$1,406.80	\$548.84	\$0.00	\$2,675.01	\$8,792.01
 Grand Total	 175.0	 \$4,161.36	 \$1,406.80	 \$548.84	 \$0.00	 \$2,675.01	 \$8,792.01

Before



During



After



Project: Burton Wells Road Channel

Activity: Routine/ Preventive Maintenance

Project #: 2014-571

Township: Port Royal Island

Completed: February 2014

Legend

TYPE

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



0 145 290 580 870 1,160 Feet

1 inch = 564 feet

Prepared By: BC Stormwater Management Utility

Date Print: 3/18/14

File: C:/sethdata/projects/projectmaps/Burton Wells Rd 2014-571



Beaufort County Public Works *Stormwater Infrastructure* Project Summary

Project Summary: Ephraim Road Channel #1

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Feb-14

Project improved 4,208 L.F. of drainage system. Cleaned out 4,208 L.F. of channel.

2014-570 / Ephraim Road Channel #1	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
HAUL / Hauling	40.0	\$848.40	\$428.00	\$158.88	\$0.00	\$576.80	\$2,012.08
ODCO / Outfall ditch - cleaned out	120.0	\$2,642.68	\$1,061.54	\$372.14	\$0.00	\$1,602.80	\$5,679.16
ONJV / Onsite Job Visit	18.0	\$697.05	\$65.16	\$68.64	\$0.00	\$525.87	\$1,356.72
STBY / Stand By	16.5	\$366.31	\$70.06	\$79.60	\$0.00	\$225.06	\$741.02
TC / Traffic Control - Jobsite	11.0	\$246.16	\$80.14	\$68.32	\$0.00	\$161.25	\$555.87
2014-570 / Ephraim Road Channel #1 Sub Total	206.0	\$4,810.83	\$1,704.90	\$747.58	\$0.00	\$3,098.39	\$10,361.70
Grand Total	206.0	\$4,810.83	\$1,704.90	\$747.58	\$0.00	\$3,098.39	\$10,361.70

Before



After



Project: Ephraim Road Channel #1

Activity: Routine/
Preventive
Maintenance

Project #:
2014-570

Township: St
Helena Island

Completed:
February 2014



Legend

TYPE

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

0 110 220 440 660 880 Feet

1 inch = 425 feet

Prepared By: BC Stormwater Management Utility

Date Print: 3/18/14

File:C:/sethdata/projects/projectmaps/Ephraim Rd 2014-570



Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Folly Road Channel #1

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Feb-14

Project improved 1,056 L.F. of drainage system. Cleaned out 1,056 L.F. of channel.

2014-583 / Folly Road Channel #1	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
HAUL / Hauling	11.0	\$237.93	\$117.70	\$430.53	\$0.00	\$158.62	\$944.78
ODCO / Outfall ditch - cleaned out	54.0	\$1,189.21	\$370.74	\$68.23	\$0.00	\$794.16	\$2,422.33
ONJV / Onsite Job Visit	9.0	\$320.80	\$32.58	\$40.04	\$0.00	\$239.21	\$632.63
TC / Traffic Control - Jobsite	3.0	\$71.94	\$10.86	\$20.02	\$0.00	\$49.41	\$152.23
2014-583 / Folly Road Channel #1 Sub Total	77.5	\$1,830.11	\$531.88	\$558.82	\$0.00	\$1,248.02	\$4,168.82
Grand Total	77.5	\$1,830.11	\$531.88	\$558.82	\$0.00	\$1,248.02	\$4,168.82

Before



During



After



**Project: Folly Road
Channel #1**

**Activity: Routine/
Preventive
Maintenance**















**Project #:
2014-583**

**Township: St.
Helena Island**

**Completed:
February 2014**

Legend

TYPE

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



0 37.5 75 150 225 300
Feet

1 inch = 147 feet

Prepared By: BC Stormwater Management Utility

Date Print: 3/20/14

File: C:/sethdata/projects/projectmaps/Folly Rd 2014-583



Beaufort County
Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Scott Hill Road Channel #1

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Feb-14

Removed blockage from flapgate and 750 L.F. of channel. Repaired washout.

2014-579 / Scott Hill Road Channel #1	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
HAUL / Hauling	5.5	\$116.66	\$58.85	\$43.71	\$0.00	\$79.31	\$298.53
RB / Remove blockage from flowline	16.5	\$366.31	\$70.06	\$73.88	\$0.00	\$225.06	\$735.30
2014-579 / Scott Hill Road Channel #1	22.5	\$493.19	\$128.91	\$117.59	\$0.00	\$310.98	\$1,050.67
Sub Total							
Grand Total	22.5	\$493.19	\$128.91	\$117.59	\$0.00	\$310.98	\$1,050.67

(Pictures Not Available)

**Project: Scott Hill
Road Channel #1**

**Activity: Routine/
Preventive
Maintenance**

**Project #:
2014-579**

**Township: St.
Helena Island**

**Completed:
February 2014**

Removed blockage
from flapgate.

Repaired washout.

Removed blockages from
750 LF of channel.

Legend

TYPE

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

0 40 80 160 240 320
Feet

1 inch = 167 feet

Prepared By: BC Stormwater Management Utility

Date Print: 3/19/14

File: C:/sethdata/projects/projectmaps/Scott Hill Channel 2014-579



Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Mink Point Channel Pipe #1

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Removed blockages from flowline.

Completion: Feb-14

2014-575 / Mink Point Channel Pipe #1	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
FENINST / Fence Installation	13.5	\$282.56	\$16.29	\$6.62	\$0.00	\$179.55	\$485.02
HAUL / Hauling	10.0	\$216.30	\$107.00	\$16.55	\$0.00	\$144.20	\$484.05
LM / Loading Materials	10.0	\$216.30	\$72.76	\$27.14	\$0.00	\$132.30	\$448.50
ONJV / Onsite Job Visit	8.0	\$276.53	\$28.96	\$31.46	\$0.00	\$205.25	\$542.20
RB / Remove blockage from flowline	40.0	\$911.50	\$104.19	\$48.00	\$0.00	\$614.40	\$1,678.08
2014-575 / Mink Point Channel Pipe #1 Sub Total	82.0	\$1,913.42	\$329.20	\$129.77	\$0.00	\$1,282.31	\$3,654.70
 Grand Total	 82.0	 \$1,913.42	 \$329.20	 \$129.77	 \$0.00	 \$1,282.31	 \$3,654.70

Before

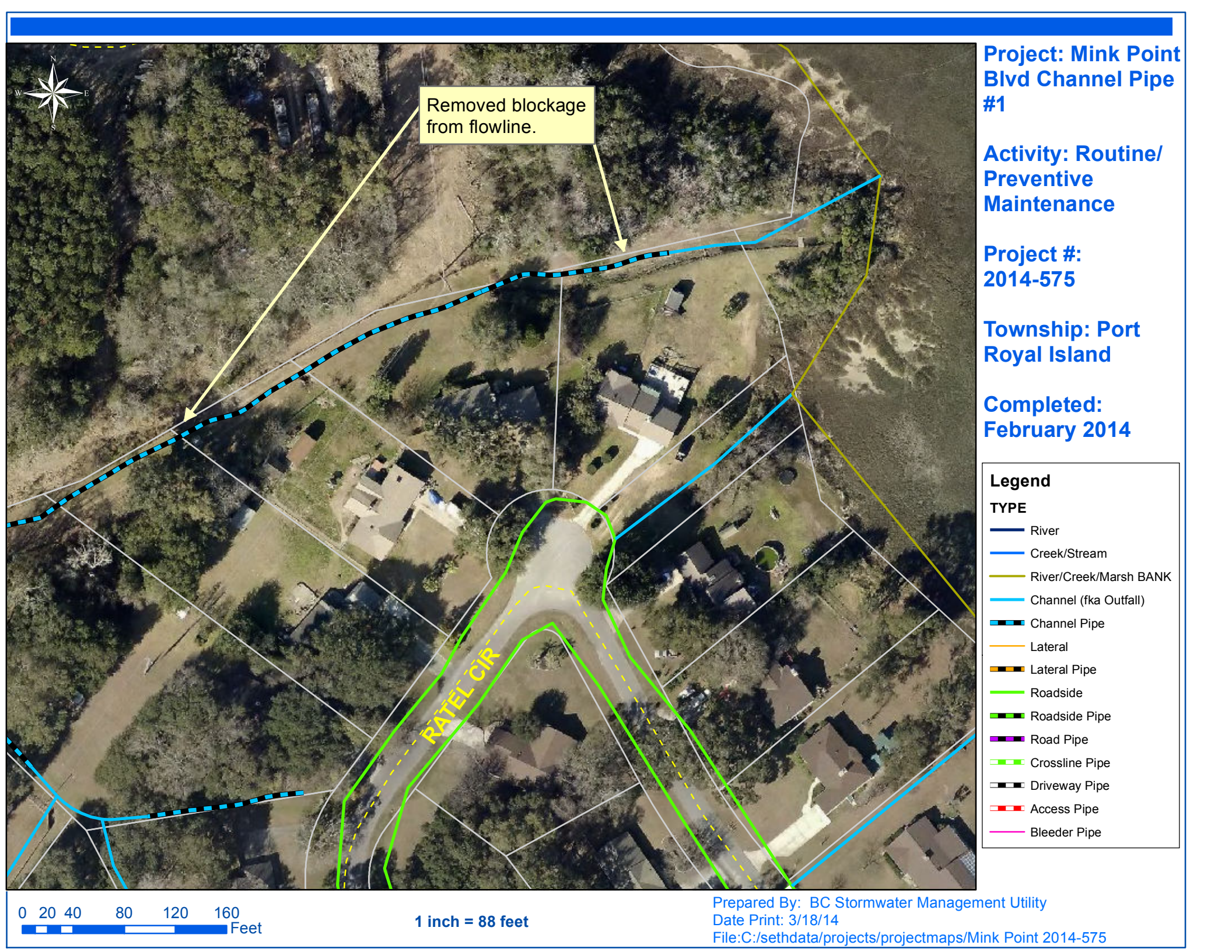


During



After







Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Mink Point Boulevard Channel #1

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Feb-14

Project improved 902 L.F. of drainage system. Bush hogged 100 L.F. of channel. Grubbed and cleared 447 L.F. of workshelf. Cleaned out 902 L.F. of channel. Installed (1) access pipe, rip rap and hydroseeded for erosion control.

2014-574 / Mink Point Boulevard Channel #1	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
APINS / Access pipe - installed	22.0	\$491.60	\$113.68	\$435.80	\$0.00	\$313.86	\$1,354.94
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
FUEL / Fueling Vehicle/Equipment	3.0	\$71.94	\$52.08	\$13.77	\$0.00	\$49.41	\$187.20
HAUL / Hauling	31.5	\$690.03	\$337.05	\$930.37	\$0.00	\$463.46	\$2,420.91
HYDR / Hydroseeding	12.0	\$263.85	\$23.30	\$64.70	\$0.00	\$169.11	\$520.96
ODCO / Outfall ditch - cleaned out	68.0	\$1,475.70	\$534.91	\$93.52	\$0.00	\$976.50	\$3,080.63
ONJV / Onsite Job Visit	13.0	\$417.98	\$47.06	\$34.32	\$0.00	\$293.15	\$792.51
WEED / Weedeating	15.0	\$327.00	\$18.10	\$18.96	\$0.00	\$216.75	\$580.81
WSDR / Workshelf - Dressed	20.0	\$449.40	\$102.72	\$66.20	\$0.00	\$301.20	\$919.52
WSGRB / Workshelf - Grubbed	45.0	\$924.16	\$98.10	\$48.99	\$0.00	\$556.59	\$1,627.84
2014-574 / Mink Point Boulevard Channel #1 Sub Total	230.0	\$5,121.89	\$1,327.00	\$1,706.63	\$0.00	\$3,346.64	\$11,502.16
 Grand Total	230.0	\$5,121.89	\$1,327.00	\$1,706.63	\$0.00	\$3,346.64	\$11,502.16

Before



During



After



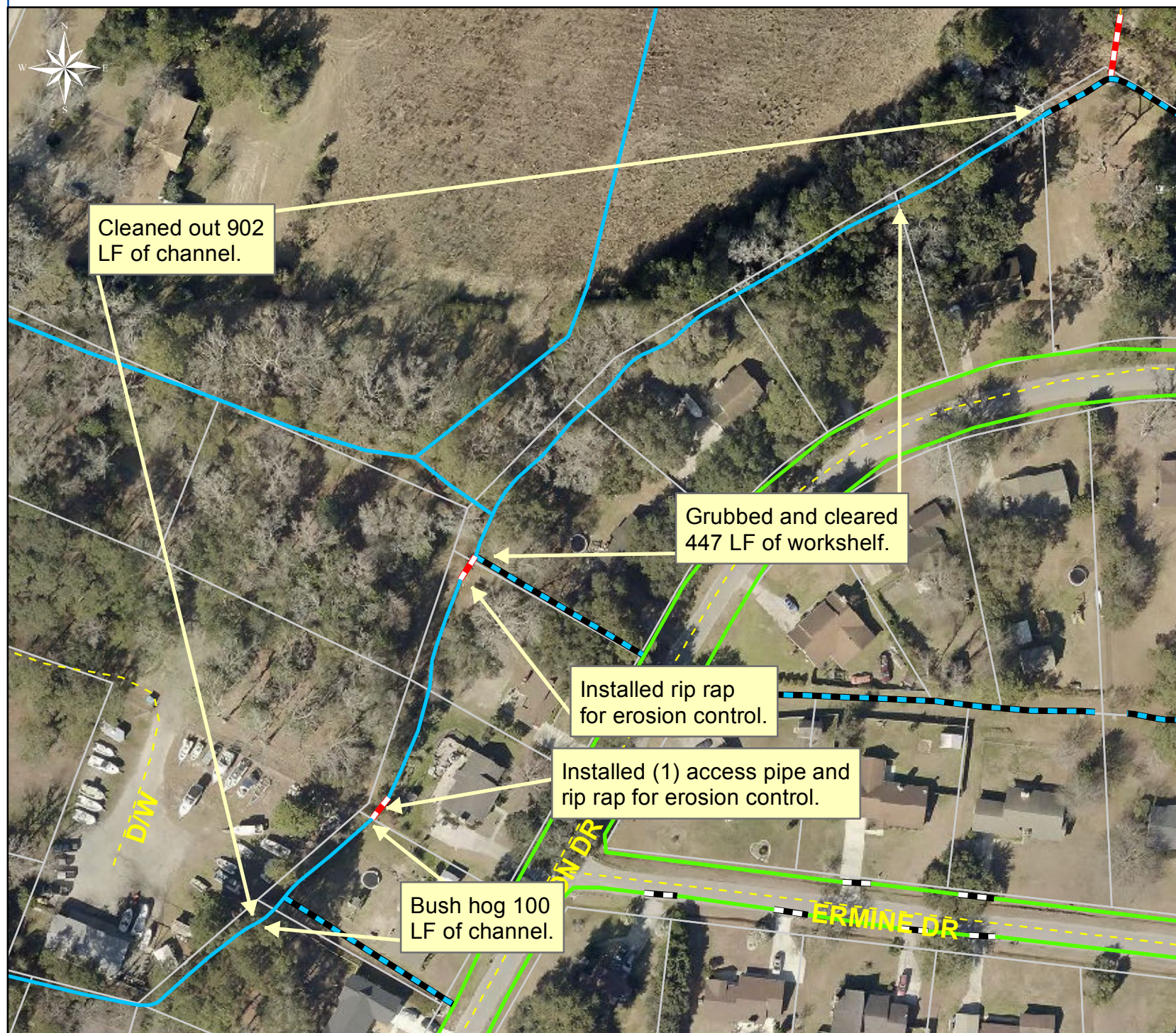
**Project: Mink Point
Blvd Channel #1**

**Activity: Routine/
Preventive
Maintenance**

**Project #:
2014-574**

**Township: Port
Royal Island**

**Completed:
February 2014**



Legend

TYPE

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

0 25 50 100 150 200
Feet

1 inch = 107 feet

Prepared By: BC Stormwater Management Utility

Date Print: 3/18/14

File: C:/sethdata/projects/projectmaps/Mink Point/ 2014-574



Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Knightsbridge Road

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Repaired sinkhole.

Completion: Feb-14

2014-585 / Knightsbridge Road	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
HAUL / Hauling	10.0	\$216.30	\$107.00	\$169.23	\$0.00	\$144.20	\$636.73
ONJV / Onsite Job Visit	6.0	\$179.04	\$21.72	\$25.74	\$0.00	\$109.38	\$335.88
PRRECON / Project Reconnaissance	3.0	\$99.54	\$10.86	\$17.16	\$0.00	\$73.41	\$200.97
SR / Sinkhole repair	28.0	\$642.36	\$49.21	\$138.25	\$0.00	\$397.65	\$1,227.47
UTLOC / Utility locates	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
2014-585 / Knightsbridge Road Sub Total	48.0	\$1,157.70	\$188.79	\$350.38	\$0.00	\$737.87	\$2,434.74
 Grand Total	 48.0	 \$1,157.70	 \$188.79	 \$350.38	 \$0.00	 \$737.87	 \$2,434.74

Before

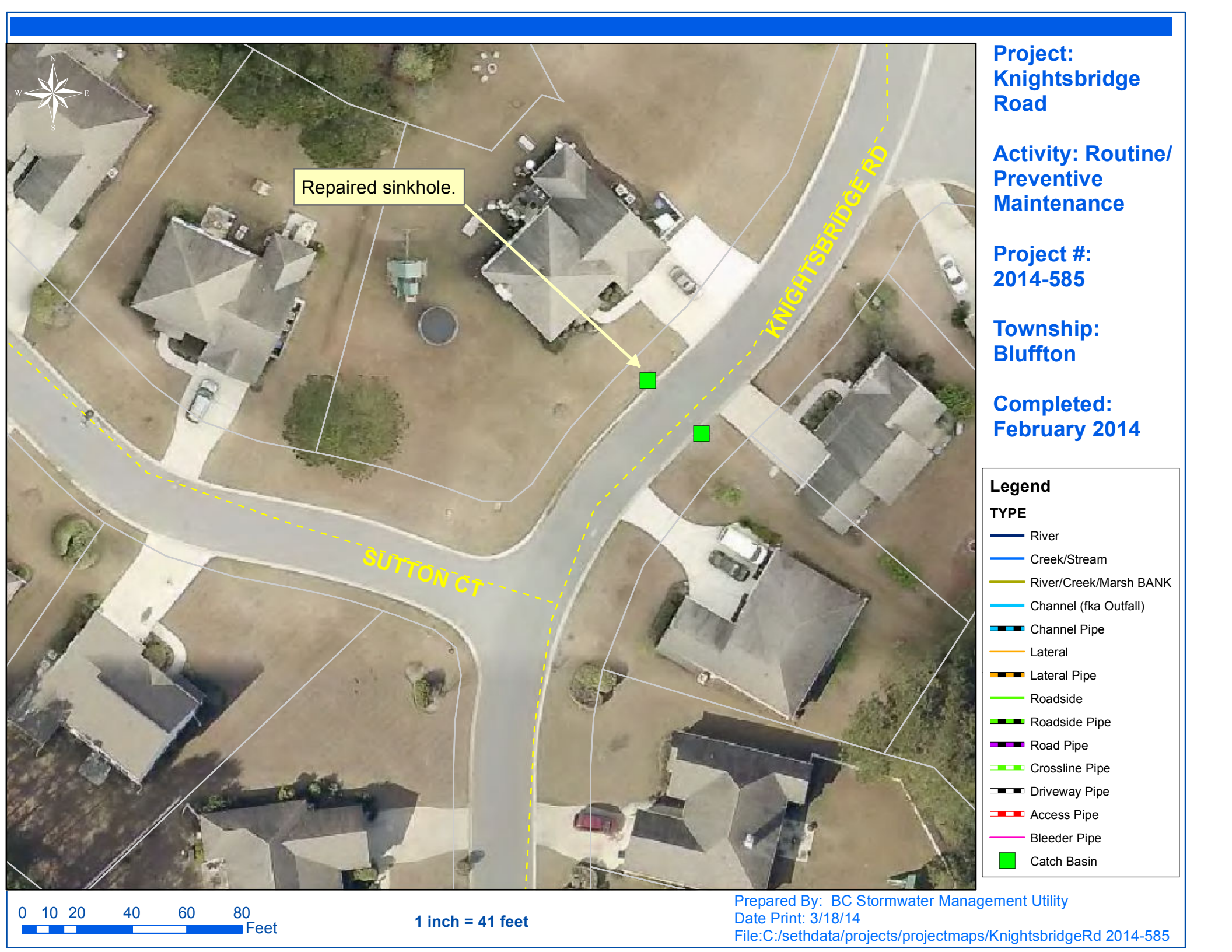


During



After







Beaufort County
Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Scott Hill Road Ballfield Channel #2

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Project improved 830 L.F. of drainage system. Cleaned out 830 L.F. of channel.

Completion: Mar-14

2014-582 / Scott Hill Road Ballfield Channel #2	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
CLPJT / Crossline Pipe - Jetted	10.0	\$216.28	\$221.60	\$166.40	\$0.00	\$143.40	\$747.68
HAUL / Hauling	35.0	\$773.50	\$374.50	\$205.22	\$0.00	\$519.05	\$1,872.27
ODCO / Outfall ditch - cleaned out	70.0	\$1,531.20	\$271.96	\$73.67	\$0.00	\$844.50	\$2,721.33
ONJV / Onsite Job Visit	14.0	\$448.89	\$39.82	\$37.18	\$0.00	\$302.15	\$828.04
STBY / Stand By	2.0	\$43.26	\$21.40	\$26.48	\$0.00	\$28.84	\$119.98
2014-582 / Scott Hill Road Ballfield Channel #2 Sub Total	131.5	\$3,023.36	\$929.28	\$508.95	\$0.00	\$1,844.56	\$6,306.14
 Grand Total	 131.5	 \$3,023.36	 \$929.28	 \$508.95	 \$0.00	 \$1,844.56	 \$6,306.14

Before



During



After



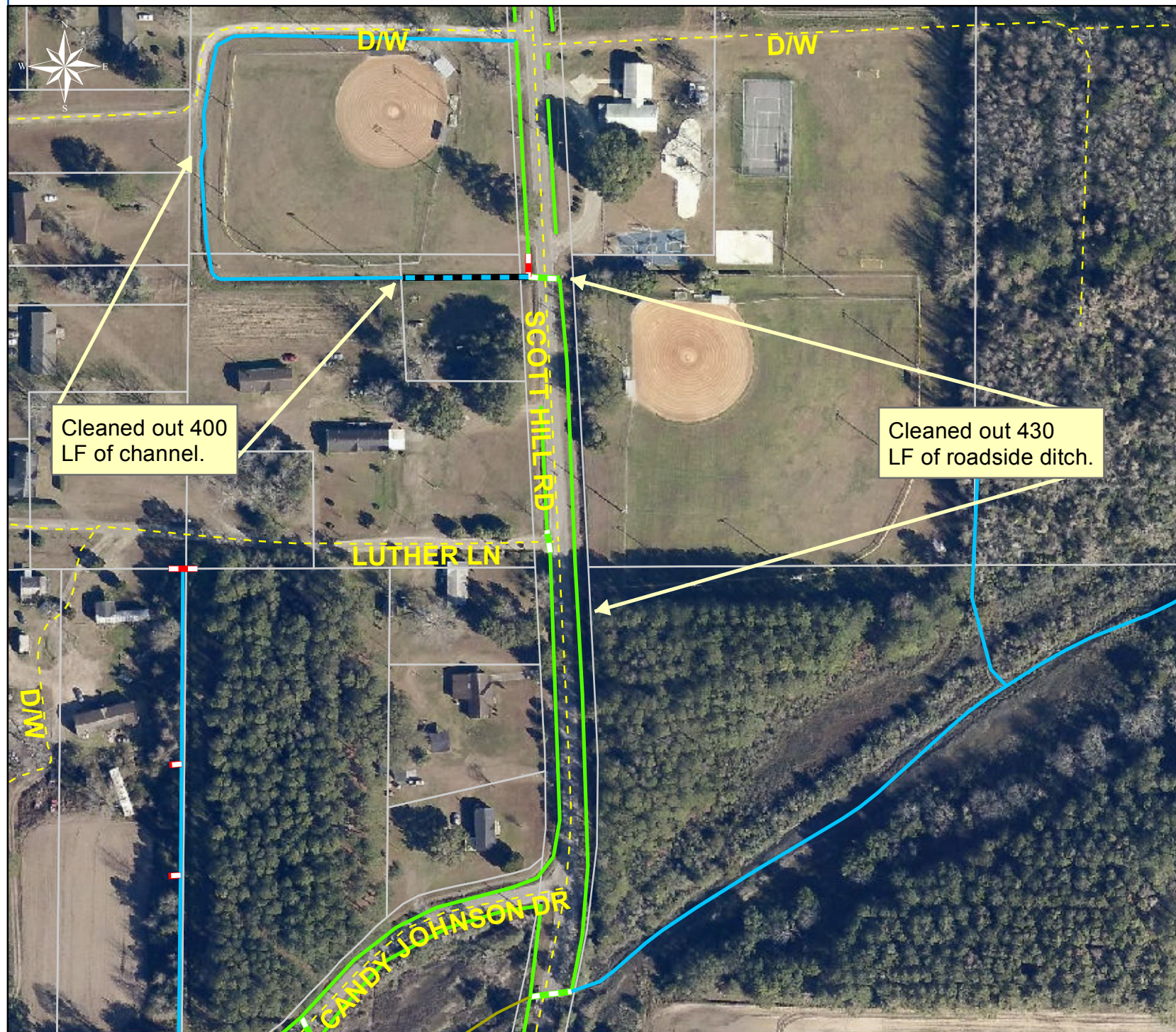
Project: Scott Hill Road

Activity: Routine/ Preventive Maintenance

Project #: 2014-582

Township: St Helena Island

Completed: March 2014



Prepared By: BC Stormwater Management Utility

Date Print: 3/20/14

File: C:/sethdata/projects/projectmaps/Scott Hill Rd 2014-582



Beaufort County Public Works *Stormwater Infrastructure* Project Summary

Project Summary: Quarter Horse Road

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Mar-14

Repaired washout.

2014-597 / Quarter Horse Road	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
HAUL / Hauling	3.0	\$63.63	\$32.10	\$8.62	\$0.00	\$43.26	\$147.61
RPWO / Repaired Washout	9.0	\$188.36	\$29.14	\$26.81	\$0.00	\$119.70	\$364.01
2014-597 / Quarter Horse Road Sub Total	12.5	\$262.22	\$61.24	\$35.43	\$0.00	\$169.58	\$528.47
 Grand Total	 12.5	 \$262.22	 \$61.24	 \$35.43	 \$0.00	 \$169.58	 \$528.47

Before



During



After



Project: Quarter Horse Road

**Activity: Routine/
Preventive
Maintenance**















**Project #:
2014-597**

**Township: Port
Royal Island**

**Completed:
March 2014**

Legend

TYPE

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

Repaired washout.

QUARTER HORSE RD

0 12.5 25 50 75 100
Feet

1 inch = 53 feet

Prepared By: BC Stormwater Management Utility

Date Print: 3/13/14

File: C:/sethdata/projects/projectmaps/Quarter Horse Rd 2014-597



Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Providence Road Channel #1

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Mar-14

Project improved 890 L.F. of drainage system. Cleaned out 890 L.F. of channel.

2014-586 / Providence Road Channel #1	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
HAUL / Hauling	24.0	\$557.90	\$221.74	\$150.61	\$0.00	\$372.78	\$1,303.03
ODCO / Outfall ditch - cleaned out	40.0	\$879.51	\$153.87	\$49.65	\$0.00	\$441.60	\$1,524.63
ONJV / Onsite Job Visit	4.0	\$119.36	\$14.48	\$5.72	\$0.00	\$72.92	\$212.48
2014-586 / Providence Road Channel #1 Sub Total	68.0	\$1,556.77	\$390.09	\$205.98	\$0.00	\$887.30	\$3,040.13
Grand Total	68.0	\$1,556.77	\$390.09	\$205.98	\$0.00	\$887.30	\$3,040.13

Before



During



After



**Project: Providence
Road Channel #1**

**Activity: Routine/
Preventive
Maintenance**

**Project #:
2014-586**

**Township: Port
Royal Island**

**Completed:
March 2014**



Legend

TYPE

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

0 50 100 200 300 400
Feet

1 inch = 205 feet

Prepared By: BC Stormwater Management Utility

Date Print: 3/20/14

File:C:/sethdata/projects/projectmaps/Providence Rd Rd 2014-586



Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Major Road Channel #1,2 and 3

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Mar-14

Project improved 1,995 L.F. of drainage system. Cleaned out 1,995 L.F. of channel.

2014-584 / Major Road Channel #1,2 and 3	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
HAUL / Hauling	61.0	\$1,319.00	\$652.70	\$278.04	\$0.00	\$830.20	\$3,079.94
ODCO / Outfall ditch - cleaned out	93.0	\$2,014.40	\$843.59	\$320.01	\$0.00	\$1,271.75	\$4,449.75
ONJV / Onsite Job Visit	21.0	\$692.24	\$65.16	\$60.06	\$0.00	\$482.93	\$1,300.39
PP / Project Preparation	21.0	\$439.51	\$25.34	\$17.32	\$0.00	\$287.63	\$769.80
STBY / Stand By	7.0	\$151.41	\$74.90	\$19.86	\$0.00	\$85.47	\$331.64
2014-584 / Major Road Channel #1,2 and 3 Sub Total	203.5	\$4,626.79	\$1,661.69	\$695.29	\$0.00	\$2,964.59	\$9,948.36
 Grand Total	 203.5	 \$4,626.79	 \$1,661.69	 \$695.29	 \$0.00	 \$2,964.59	 \$9,948.36

Before

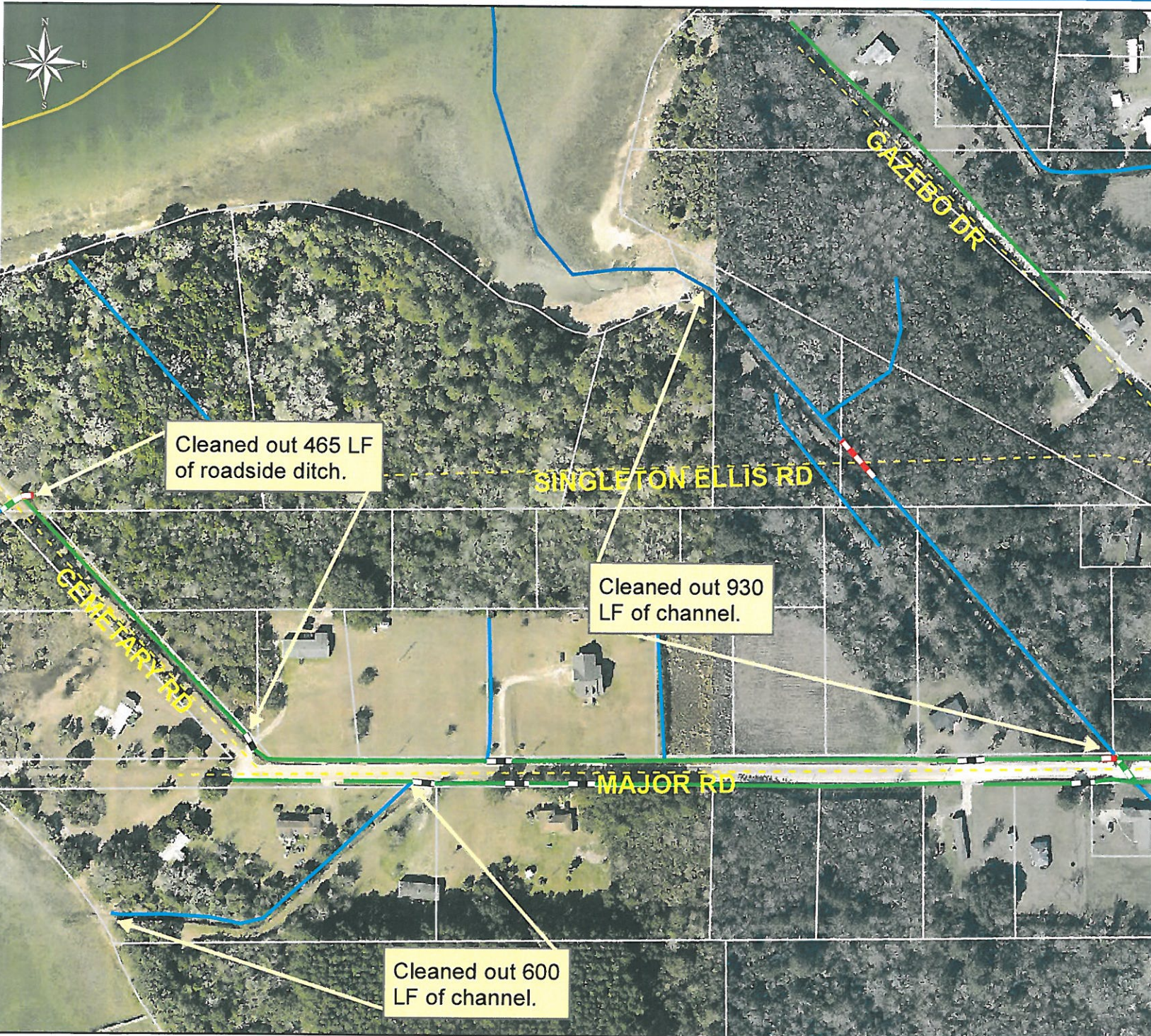


During



After





Project: Major Road Channel #1, #2, #3

Activity: Routine/ Preventive Maintenance

Project #: 2014-584

Township: St Helena Island

Completed: March 2014

Legend

TYPE

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

0 60 120 240 360 480 Feet

1 inch = 232 feet



Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Huron Drive

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Mar-14

Project improved 25 L.F. of drainage system. Constructed (1) catch basin. Extended (1) driveway pipe and 15 L.F. of channel pipe. Jetted (1) driveway pipe. Hydroseeded for erosion control.

2014-563 / Huron Drive	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
BKFILL / Back Fill	12.0	\$260.64	\$47.74	\$16.64	\$0.00	\$168.48	\$493.50
CBINS / Catch basin - installed	80.0	\$1,747.32	\$208.38	\$927.51	\$0.00	\$1,078.80	\$3,962.01
DLO / Ditch Layout	2.0	\$88.54	\$7.24	\$5.72	\$0.00	\$67.92	\$169.42
DPJT / Driveway Pipe - Jetted	4.0	\$88.87	\$44.32	\$18.55	\$0.00	\$59.40	\$211.14
HAUL / Hauling	24.0	\$516.18	\$256.80	\$343.16	\$0.00	\$308.51	\$1,424.65
ONJV / Onsite Job Visit	30.0	\$944.10	\$108.60	\$53.20	\$0.00	\$615.80	\$1,721.70
PI / Project Inspection	2.0	\$88.54	\$7.24	\$2.86	\$0.00	\$67.92	\$166.56
PP / Project Preparation	11.0	\$255.89	\$10.86	\$9.48	\$0.00	\$168.66	\$444.89
RPWO / Repaired Washout	12.0	\$261.60	\$14.48	\$9.93	\$0.00	\$173.40	\$459.41
UC / Utility Coordination	1.0	\$20.46	\$0.00	\$0.00	\$0.00	\$13.23	\$33.69
2014-563 / Huron Drive	178.5	\$4,282.37	\$705.66	\$1,387.05	\$0.00	\$2,728.73	\$9,103.82
Sub Total							
Grand Total	178.5	\$4,282.37	\$705.66	\$1,387.05	\$0.00	\$2,728.73	\$9,103.82

Before



During



After



Project: Huron Drive

**Activity: Routine/
Preventive
Maintenance**

**Project #:
2014-563**

**Township: Port
Royal Island**

**Completed:
March 2014**

Legend

TYPE

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



0 15 30 60 90 120
Feet

1 inch = 67 feet

Prepared By: BC Stormwater Management Utility

Date Print: 3/18/14

File: C:/sethdata/projects/projectmaps/Huron Drive 2014-563



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD

Wednesday, May 7, 2014

2:00 p.m.

Beaufort Industrial Village, Building 3 Conference Room
104 Industrial Village Road, Beaufort
843.255.2805

In accordance with South Carolina Code of Laws, 1976, as amended, Section 30-4-80(d), all local media was duly notified of the time, date, place and agenda of this meeting.

1. CALL TO ORDER – 2:00 p.m.
 - A. Approval of Agenda
 - B. Approval of Minutes – April 2, 2014 ([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
 - A. Special Presentation – Bryan McIlwee, Town of Hilton Head Island
 - B. Utility Update – Eric Larson, P.E. ([backup](#))
 - C. Monitoring Update – Eric Larson, P.E. ([backup](#))
 - D. Stormwater Implementation Committee Report – Eric Larson, P.E. ([backup](#))
 - E. Stormwater Related Projects – Eric Larson, P.E. ([backup](#))
 - F. Upcoming Professional Contracts Report – Eric Larson, P.E. ([backup](#))
 - G. Regional Coordination – Eric Larson, P.E. ([backup](#))
 - H. Financial Report ([backup](#))
 - I. Maintenance Project Report – Eddie Bellamy ([backup](#))
5. UNFINISHED BUSINESS
6. NEW BUSINESS
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
 - A. June 4, 2014 ([backup](#))
9. ADJOURNMENT

