



BEAUFORT COUNTY  
STORMWATER MANAGEMENT UTILITY BOARD  
AGENDA

Wednesday, April 29, 2015  
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 18, 2015 ([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
  - A. Special Presentation – Preliminary Rate Study Results – ATM and Eric Larson P.E.
  - B. Utility Update – Eric Larson, P.E. ([backup](#))
  - C. MS4 Update - Eric Larson, P.E. ([backup](#))
  - D. Monitoring Update – Eric Larson, P.E. ([backup](#))
  - E. Stormwater Implementation Committee Report – Eric Larson, P.E. ([backup](#))
  - F. Stormwater Related Projects – Eric Larson, P.E. ([backup](#))
  - G. Upcoming Professional Contracts Report – Eric Larson, P.E. ([backup](#))
  - H. Regional Coordination – Eric Larson, P.E. ([backup](#))
  - I. Financial Report – ([backup](#))
  - J. Maintenance Projects Report – Eddie Bellamy ([backup](#))
5. UNFINISHED BUSINESS
6. NEW BUSINESS
  - A. Fiscal Year 2016 Proposed Budget – Carolyn Wallace ([backup](#))
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
  - A. May 20, 2015 ([backup](#))
9. ADJOURNMENT



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

March 18, 2015 at 2:00 p.m. in Beaufort Industrial Village Building #3 Conference Room  
Draft April 16, 2015

**Board Members**

**Present**                      **Absent**

Allyn Schneider  
Don Smith  
William Bruggeman  
Marc Feinberg  
Larry Meisner  
Patrick Mitchell  
James Fargher

**Ex-Officio Members**

**Present**                      **Absent**

Andy Kinghorn  
Jeremy Ritchie  
Scott Liggett  
Van Willis

**Beaufort County Staff**

Eric Larson  
Carolyn Wallace  
Danny Polk  
Kevin Pitts  
Eddy Bellamy  
Patricia Wilson  
Alan Eisenman

**Visitors**

Alice Howard, County Council  
Reed Armstrong, Coastal Conservation League  
Lamar Taylor, City of Beaufort

**1. Meeting called to order** – Don Smith

- A. Agenda – Approved.
- B. February 4, 2015 Minutes - Approved.

**2. Introductions** – Completed.

**3. Public Comment(s)** – None.

**4. Reports** – (Mr. Larson submitted his written report in advance. [Please see attachment.](#))

**A. Utility Update** – Eric Larson

*Webinar* – Mr. Larson just finished a nationwide webinar hosted by the Center for Watershed Protection. The topic was runoff reduction using volume control.

*Staff Vacancy* – Mrs. Patricia (Patty) Wilson was introduced as the newly hired Administrative Technician for Stormwater Management (SWM).

**B. MS4 Update** – Eric Larson

*MS4 Permit Application* – DHEC has not reviewed the MS4 permit and has tentatively set July 1, 2015 as a possible date to issue the permit which will push back the previous timeline to implement the county's program.

**C. Monitoring Update** – Eric Larson

*USCB Lab*- Lab is fully equipped, staffed, and trained; but is still going through the certification process. Utility staff is researching certified data needs which will affect the date that the USCB Lab takes over county sampling needs.

- D. Stormwater Implementation Committee (SWIC) Report** – (Mr. Larson included minutes for January, February, and March meetings. [Please see attachments](#))  
*Rate Study* – Committee is discussing rate study.  
*Master Plan* – Committee has started to talk about the master plan.  
*Public Education* – Public Education efforts are coming together and reaching out to the community.  
*Storm Drain Markers* – This is part of the public outreach effort and will bear the Neighbors for Clean Water logo. The Boy Scout Eagle Project will be installing these in the downtown Beaufort area.
- E. Stormwater Related Projects** – Eric Larson  
*US 278 Retrofit Ponds* – The county has issued the development permit.  
*Okatie West / SC 170* – The delay is related to the closing of the purchase of the property. The utility is filing a pre-application for an EPA Section 319 Grant to build a pond on the property.
- F. Professional Contracts Report** – Eric Larson  
*Utility Rate Study* – The Town of Bluffton has decided not to partner in the study. Remaining partners’ (City of Beaufort, Town of Hilton Head, and the Town of Port Royal) costs are not affected by the Town of Bluffton’s decision. Mr. Andy Kinghorn questioned why the Town of Bluffton pulled out of the rate study and Mr. Jeremy Ritchie replied that the Town of Bluffton did not want a marked increase in fees. Mr. Kinghorn expressed concern about possible future revenue requests made to municipalities which might affect the Town of Bluffton.
- G. Regional Coordination** - Eric Larson  
*Battery Creek Pond Funded by an EPA 319 Grant* – On going. Easement Agreement reached and ready for signature. Permits are pending. There was a site visit by representatives from DHEC. They got an overview of the project and they liked the project.  
*May River Watershed Action Plan* – Mr. Ritchie said the Town of Bluffton is still negotiating the final design contract for the Pine Ridge Project. The Town is also getting ready to install monitoring equipment on the Stoney Creek Project.  
*River Buffer Permitting* – Mr. Larson included the zoning office response to his inquiry which outlines the process a citizen should take to perform work within the river buffer.
- H. Financial Report** – Alan Eisenman ([please see attachment](#))  
*Revenues* - Mr. Eisenman compared revenues for the same period in FY14 and revenues are \$43,000 less. There is about a 1% difference. Possible reasons could be delayed customer payments or annexation of properties. He will have a better evaluation in March.  
*Expenses* - Expenses in the 7<sup>th</sup> month should be 58% and are currently at 49%.  
*Fund Balance* – Fund Balance is down \$177,000.  
*Cash Balance* – Cash Balance has decreased by \$258,000.  
*FY2015 Lowest Cash Balance and Unrestricted Net Balance* – Previously the board asked Mr. Eisenman about transferring funds into the Capital Improvement fund for this fiscal year. He went back and the lowest cash balance occurred in November and was \$678k, but the unrestricted net balance was in the negative. Therefore, he does not recommend a transfer of funds this fiscal year.
- I. Maintenance Projects Report** – Eddie Bellamy provided a written report on 17 minor and routine projects in advance. ([please see attachment](#))  
Mr. James Fargher inquired about the significance of each project and if there was a priority level assigned. Mr. Bellamy replied that all the projects reported this month are routine maintenance and if these tasks are not completed then significant consequences could result. If a system is routinely maintained it does not have to be cleaned as frequently. Mr. Larry Meisner asked if maintenance projects were assigned based on a rotating schedule or based on problems reported. Mr. Bellamy replied yes to both. Routine maintenance is scheduled and complaint projects are also added to the schedule. Mr. Meisner also questioned if the utility had enough resources to keep up with the

schedule. Mr. Bellany replied that as long as the equipment like the Vacuum Truck did not have major problems, then yes, resources were sufficient. Discussion ensued about outfall channels off of SCDOT roads. These drainage issues are not being addressed by the county because of lack of funding.

**5. Unfinished Business** – Eric Larson

*Jelly Ball Issue* – Mr. Billy Bruggeman asked for the status. Mr. Larson replied that he is not sure of the status. He believes the applicant is involved in a lawsuit related to a recent change to the zoning ordinance which now restricts what the applicant wanted to do at the dock site.

**6. New Business** – None.

**7. Public Comment(s)** – None.

**8. Next Meeting Agenda** – April 29, 2015 Agenda approved.  
(Please see attachment).

**9. Meeting Adjourned.**



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



March 18, 2015

**Stormwater Manager's Report for the Stormwater Utility Board Meeting**

Utility Update

1. Eric Larson presented on a nationwide webinar hosted by the Center for Watershed Protection. The topic was Runoff Reduction using volume control with Beaufort County's efforts presented as a case study.
2. The paper presented by Larson on the CWP webinar has been submitted to for consideration for the ICEA conference in Atlanta in April and the SESWA conference in Chattanooga in October.
3. Our staff has completed a draft of the FY 16 budget. We have presented it to the County Administration. We plan to present a final draft of the budget at the April meeting.
4. We have hired an Administrative Technician for the Stormwater Management position. Her name is Patricia Wilson.

MS4 Update

1. MS4 Permit Application – We have been told by DHEC staff that a response to our application should not be expected until closer to July 1, 2015. They stated their current workload has prevented starting review.
2. Eric presented the stormwater program update and MS4 permit overview to the Rural and Critical Land Preservation Board on March 12<sup>th</sup>.

Monitoring Update

1. USCB Lab – County and Lab staff have reviewed and updated the Strategic Plan ([attached](#)) for the implementation of the lab.
2. USCB lab staff and our staff collaborated on an abstract that was submitted to the South Carolina Association of Stormwater Managers (SCASM) for their fall meeting. The topic of the meeting is monitoring programs. We believe the creation of the lab and the efforts made in partnership with the USCB, County, and Towns and City is a worthy topic to present. Acceptance of the paper is pending.

Stormwater Implementation Committee (SWIC) Report

1. The SWIC met on March 11<sup>th</sup>. Topics of discussion included the rate study, master plan, and current education efforts ([please see attachment](#)).
2. Copies of the [minutes from the January](#) and [February meeting](#) are attached to this report for your information.

## Stormwater Related Projects

1. US 278 Retrofit Ponds (\$356,000 budget) – Construction is underway. The Stormwater Infrastructure crews continue to construct the site entrances at all four sites. Our contractor has begun clearing on the Pickney Colony Park site. Permitting by the Town of Bluffton for the spoil site at Buckwalter Park has been submitted and expected to be approved March 24, 2015. All DHEC permits are in place. A new issue involving permitting by the County's Zoning department has come up and is being addressed by staff.
2. Turtle Lane Paving on Lady's Island (stormwater add-on) (\$8,940 budget) – No update to report. Design plan still pending.
3. Okatie West / SC 170 widening retrofit land purchase (\$160,415 budget) – No update to report. Closing of the property still pending.
4. Middleton Place subdivision on Hilton Head Island – The POA has requested the Town of Hilton Head Island to accept the easement for the detention basin. Further, as part of the agreement, the County will be performing some routine maintenance on the subdivision's stormsewer. The County's cost is pending.

## Professional Contracts Report

1. Utility Rate Study – The County approved ATM's Task Order #4 in the amount of \$48,521 to conduct a rate study and lead the County into a decision on a new rate structure and amount(s). The Towns of Hilton Head Island and Port Royal and the City of Beaufort have joined the project with a supplemental Task Order of \$11,871 each. The supplement Task Order (4B) will perform a similar scope of work already performed for the County in preparation of the January workshop and allow ATM to study all four governmental entities together as part of the Rate Study project. The Town of Bluffton's participation is still pending.
2. Stormwater Management Plan (Master Plan) Update – Staff has received a proposal from ATM for a scope of services and fee for an update to be performed in FY 16. The scope of services is being reviewed by the SWIC. Once approved, a decision on how to fund the study and how to contract for the work will need to be made by the SWIC, the Board, and the various government bodies.

## Regional Coordination

1. Battery Creek Pond Funded by an EPA 319 Grant (\$132,609 budget – county portion) – On going. County and City staff are continuing to work with the property owner to negotiate an easement. DHEC and USACE permitting is pending. (Lamar Taylor may also report)
2. May River Watershed Action Plan – The Pine Grove volume reduction project using CWA Section 319 grant dollars is on-going. The Stoney Creek watershed plan is on-going. (Jeremy Ritchie may also report).
3. Salinity Study (\$25,000 budget – county portion) - On going. Depending on funding remaining, the study may be extended into the fall. The DNR project team will report back to the advisory committee once the decision is made. If not, a final report is expected in the upcoming months.

4. Sea Level Rise and Future Planning – On going. The Sea Grant staff will report to the Planning Commission and Natural Resources Committee at a future date.
5. Buckingham Plantation Drive Innovation District conceptual design study (\$25,000 budget – SWU portion) – The SWU is funding 50% of the cost of the study. The study has not been started pending funding of the other half. The County Administration is considering funding alternatives.
6. Old Woodland Plantation stormsewer system repairs – (\$65,997) Equipment repairs have delayed completion of the work. Corrective repairs to unfinished work are on-going.
7. River Buffer Permitting – At the last month's meeting, the issue raised by a citizen to members of our Board expressed concern that voluntary improvements to mandatory river / shore buffers was made difficult by local Zoning regulations. I inquired to the Planning and Zoning staff and received clarification on the issue. [See attached email.](#) They acknowledged recent situations and stated the current policy was recently created to avoid these issues in the future.

2/23/2015

Updated timeline for USCB Lab "Next Steps" Strategic Plan

1. Complete equipment purchase - April 2014 -DONE
2. Training on new equipment - April 2014 - DONE
3. Field training on County monitoring stations and equipment - Feb. 2014 to June 2014 - DONE
4. N/A
5. Town of Bluffton renewed contract with USCB Lab - August 2014 - DONE
6. Lab offers services to property management entities within the County (eg. Palmetto Bluff, Sea Pines, Leamington Community, Jasper County River Port, others) for routine water quality monitoring - ONGOING
7. Lab submits certification applications to DHEC for all certifiable methods (except heavy metals) per County's monitoring needs - September 2014 to December 2015.  
Heavy metals will take longer - These assays will be last group submitted due to length of time and workload needed for certification. Timeframe for submittal unknown and subject to DHEC schedule for review.
8. Discontinue use of GEL Engineering services for the County - ongoing as individuals assays are approved beginning February 2015 through December 2015 (subject to DHEC schedule) (Exception is heavy metals, which could be taken over by USCB via use of a certified external lab.)
9. County begins re-assessment of monitoring needs, with USCB lab support, to develop a MS4 compliant program. Begin additional certifications as needed - April 2015.
10. USCB Lab and County to begin discussions with Town of Hilton Head Island to join the County's collaborative effort to utilize the lab for stormwater monitoring. (The Town of Hilton Head renewed a contract with GEL Engineering in the spring of 2014) - January 2016.
11. USCB Lab reassesses workload and capabilities to expand services beyond local government and current clients - ONGOING
12. USCB Lab to continue discussions with military installations to expand upon the County's collaborative effort to utilize the lab for stormwater monitoring - ONGOING
13. USCB Lab continue to consider private industries needs to utilize the lab for stormwater monitoring as workload permits and higher priority allow - ONGOING.
14. USCB development of a water quality curriculum to support sampling and testing workload, develop professional for internships and degrees in the field, and provide public education and outreach efforts for the community - ONGOING and EXPANDING.

## Draft Minutes

March 11, 2015, 1:30pm at the BJWSA Community Room, 6 Snake Road, Okatie, SC

Attendees:	Eric Larson, Bryan McIllwee, Jeremy Ritchie, Lamar Taylor, Tony Maglione (on behalf of Van Willis) , Shelby Berry, Kevin Pitts, Danny Polk
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1. Approval of Feb. 11th, 2015 meeting minutes - approved by common consent.
2. Update on Public Education by BCSWCD.
  - a. See BCD written report.
  - b. Drain Marker status - will be ordering markers tomorrow.
  - c. Pond Conference. SC Sea Grant is doing a conference in Charleston in Spring 2016. We are working with them to make sure agendas are complimentary and both conferences can help each other without overlap or conflict.
  - d. Rain barrel contest - Shelby noted the program during Earth Day.
  - e. Dog Bone bag dispenser - Ordering for give away for Earth Day. Group decided on White with blue writing using the NCW name, website, and slogan "Bag it!"
  - f. Pet Waste Flyers - OK with using remainder of the County's brochure and then change the logo and contact information when new printing is needed.
  - g. BCD Budget - SWIC agreed to the \$60,000 budget for next FY.
  - h. NCW MOU status - All signed except ToPR. They have the MOU for signature.
  - i. NCW website update - ToB has created a BETA version of the website home page showing how it would provide Tabs for each government body and a revised About Us page. ToB will make the initial changes live soon. The other government entities should send page content to ToB soon.
  - j. Clemson Pond Master Online Class - SWIC agreed to direct BCD to advertise the class to our local plantation managers, etc.
3. Rate Study MOU status and Rate Study progress report - ToB will not be participating. County has the three MOUs and will get them designed by Kubic ASAP. ATM will be meeting with ToPR, CoB, and ToHHI next week. ATM asked everyone to send their budget schedules to them so they can adjust their project schedule.
4. Revisit SWU Mgt. Admin fee for further discussion, if needed.
  - a. Public Education Budget for FY 16 - see above.
  - b. SWIC resolution needed? SWIC members said they had the documentation needed to gain approval
5. Master Plan Update scope of services and Budget - Discussion  
Larson introduced the scope for the master plan. He asked that the SWIC review the scope and help modify it as needed to make sure the needs of each Town, City, and County are met. It was suggested that the scope be the same topic of discussion for the April SWIC meeting. There was discussion about the cost and willingness of all Councils to fund such a large effort.
6. CWP webinar March 18th - Larson announced the webinar, his participation as a presenter, and that the County Utility Board is hosting it before the next Board meeting next week. All were invited to attend.
7. Case study in Illicit discharges - County staff recently had an issue with dumping of floor wax stripper into a storm drain on County property by our custodial staff. Staff educated the worker because they were unaware it was an issue. SWIC discussed that public education is a big part of the solution. SWIC had additional discussion about how we could better educate on these issues.

Stormwater Education Report - Beaufort Conservation District  
March 11, 2015

**1. Storm Drain Marker Project**

- Need one approval on proof & will order ASAP
  - Duracast Custom 4" stock blue and green with Adhesive Guide back print: 2500 @ 1.70 = 4250.00
  - das Curb Marker Adhesive 5 oz: 168 @ 5.99 = 1006.32
  - UPS: = 161.00
  - TOTAL \$5417.32
  - (SC Use tax 6%) 350.00
  - \$5750.00
- Production will be about 6 weeks.
  - Environmental Science Merit Badge with Troop 1712.

**2. Pond Conference**

- Grant submitted with a \$16,000 budget & will not hear until late April.
- Will be at USC-B (Bluffton Campus) Oct 22
- Charleston holding Conference in Spring 2016 & will be meeting with Blaik Keppler, ACE Basin NERR, & Eric to discuss avoiding overlap in content in April. Blaik & SC Sea Grant is helping us set up the conference.

**3. Spring Festivals:** Began planning for Earth Day & Litter Sweeps -

- Earth Day Port Royal Farmer's Market – April 18, 9 – noon Focus NPS pollution with Enviroscape, Pet waste dispensers & rain barrel decorating contest.
  - A. **Rain barrels decorating contest pre K to College**
    - Invoice (20 barrels, fittings, etc. @\$60 = \$1272 )
    - See attached flyer being distributed to public & private teachers
  - B. **Dog bones** pet waste dispensers See attached quote & design for decision.
  - C. **Pet Waste Flyers** – have plenty from last year. Use these & brand next printing? I could see about having a sticker printed with logo
- Port Royal Soft Shell Crab Festival- April 18, noon-5 pm- Enviroscape & dog bones
- May River Sweep (9 am start) & Earth Day (10-2) April 25 - Enviroscape or other NPS activity & dog bone giveaways –If we have enough rain barrels may display some of them

**4. Budget:** Prepared 2<sup>nd</sup> budget draft for FY16 @ \$60,000.

**5. 7<sup>th</sup> Grade Enviroscape presentations** – Presenting to 24 - 7<sup>th</sup> grade classes at Bluffton Middle School this month. (1 presentation to Boy Scout Troop 1712.) Would like to purchase extra Model ( \$ 1264 for NPS or \$ 1370 for Coastal)

**6. Master Pond Manager (MPM)-** Clemson & Center for Watershed Excellence course for Master Pond Manager(\$500) or Letter of Completion (\$250) Payment due by March 20<sup>th</sup>, course starts April 1. See attached information & syllabus.  
Immediate notification to area POAs.

## Approved Minutes

January 14, 2015, 1:30pm at the BJWSA Community Room, 6 Snake Road, Okatie, SC

Attendees:	Eric Larson, Jeremy Ritchie, Tony Maglione, Shelby Berry, Denise Parsick, Danny Polk, Kevin Pitts
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1. Approval of Minutes from Nov. 12<sup>th</sup>, 2014  
Approved by Common Consent
2. Update on MS4 permits  
Larson reported that DHEC did not issue the County's MS4 permit by January 1, 2015 as anticipated. DHEC did not provide a timeframe for review and approval. ToB will be submitting on or about April 1, 2015. It is unknown when ToHHI submitted or if they have heard back from DHEC.
3. Report from BCD on Public Education and Outreach Efforts - Parsick and Berry presented a written report to the SWIC. It covered the following activities.
  - a. Storm Drain markers. They are working on the design of the markers. They have a Boy Scout proposing to do drain marking as an Eagle Project. BCD is waiting on a decision on the use of the Neighbors for Clean Water slogan before going forward with the design.
  - b. EPA Retrofit Workshop - They helped with advertising and email list serves.
  - c. Pond Conference - They are working with the Human Services Alliance to get a grant for funding. The potential date and location is the week of October 22, 2015 at USCB Bluffton Campus.
  - d. NACD webinar - their staff received training in Pub Ed.
  - e. Enviroscape - They have presented to schools and to community educators. They have additional presentations planned for Feb.
  - f. Riversmart - This former branding campaign for stormwater public education may be an alternative method if NCW does not get approved by the ToB and SWIC. They have met with volunteers that created the website to get a briefing on what the program did.
  - g. Survey - They are developing a survey. They are waiting on the NCW decision before finalizing it.
  - h. BCD met with T4B Water Quality Coalition to seek input on NPS pollutants of concern and delivery methods for education, such as pamphlets, PSAs, etc.
4. Decision on Storm Drain Marker Design  
See 3a. above. The group reviewed the hand drawn concept presented by Larson. There was common agreement with the design. **SWIC members not present should provide comment within two weeks so that the concept can be finalized and a quote from the vendor can be requested. All SWIC members need to submit a "hot Line" telephone number to BCD for the proofs from the vendor.**
5. Reminders on reporting deadlines for BC, others
  - a. Annual proposal for SWM fee to Towns/City by March 15th. Approved in writing by April 15th. Larson intends to present the SWM fee and Cost shares at the Feb. 11th SWIC meeting in get ahead of the budget process. Larson asked everyone to be mindful of the pending costs and fees as they prepare their budget.
6. Discussion on FY 16 budgeting
  - a. SWM fee  
County will be seeking an increase. Larson is not sure of the value at this time. Last year's increase was estimated to be approx. \$2.90 but was later withdrawn and kept at \$2.80. This

year the value will likely be \$2.90 to \$3.25. If \$2.90, means approx. \$325,000 v. \$312,064, or an 4% increase. At \$3.25, this could be \$366,000, a 16% increase. Larson noted that he has not finished the calculations and he needs to confirm some of the numbers put in his current draft. The split would be based on % of SFUs, approx. County 50%, HHI 30%, Bluffton 10%, ToPR 3% and Beaufort 7%.

b. Cost shares

i. Master Plan Update

The SWIC was in agreement to do the update as a County wide effort. **The SWIC members not present will need to also comment on their agreement with this proposal or not.** If countywide effort, Larson stated to be prepared for a cost share of \$250,000 to \$300,000 for next year. Percentage breakdown is County 50%, HHI 30%, Bluffton 10%, ToPR 3% and Beaufort 7%. There are also several options available to contract for this work and the SWIC will need to make that decision as well.

ii. Pub Ed for FY 16

BCD was asked to start preparing a proposal for FY 16 to be presented in Feb. as well. Larson noted that the County received a check for \$37,233 from Carolina Clear from FY 14 funds unspent. That money will be distributed back to the Towns and City based on the SFU %. The SWIC needs to decide if the funds are credited to the FY 16 program or if the FY 16 is expanded to utilize the additional funds.

7. ToB's Citizen's Guide to MS4 tri -fold brochure. They are finalizing the content and getting approval from their Town Council soon. ToB is willing to share this brochure with the SWIC members for use county wide.
8. Use of Neighbors for Clean Water by all County SWIC members. Ritchie stated that the ToB is likely to approve the use of NCW countywide. His office has made recommendation to the Council and expects to get approval soon.
9. There was no other business.
10. Adjourned approx. 2:30 pm.

## Draft Minutes

February 11, 2015, 1:30pm at the BJWSA Community Room, 6 Snake Road, Okatie, SC

Attendees:	Eric Larson, Bryan McIllwee, Jeremy Ritchie, Lamar Taylor, Tony Maglione (on behalf of Van Willis) , Shelby Berry, Carol Murphy, Carolyn Wallace
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1. Approval of January 14, 2015 meeting minutes - approved by common consent.
2. Update on Public Education
  - a. Report from BSWCD – Shelby. See BSWCD report
  - b. Update on NCW and needed MOU approvals - Eric  
General consensus that everyone is agreeable to the partnership. Everyone needs to sign the original agreement. BC and ToB done. ToHHI took original to be signed and will return to the County.  
TO DO - email out MOU draft again.
  - c. BSA Eagle Scout Project – Carol Murphy (or others) - Carol updated SWIC on the project and coordination being done. This is intended to be a pilot Involvement project.
  - d. Storm drain marker status - Shelby. See report. Need the logo graphic. Will order once the art work is done.  
Ordering 500 for each Town, City, & County.
  - e. Hot line number for each jurisdiction - All  
Shelby still needs a # from ToB, CoB, and ToPR
  - f. NCW Website - Jeremy  
Mock up of new website pages by March 3 to assist ToPR in gaining approval by their council. Jeremy and Beth will do.
3. Presentation of FY 14 Financials – Eric, Carolyn  
Eric emailed the reports today. He briefly reviewed them and asked for questions.
4. Presentation on the FY 16 SWM Fee – Eric, Carolyn  
Larson presented a Powerpoint slide show outlining the proposed budget for the stormwater management fee for FY 2016. He had emailed to the SWIC earlier today several excel spreadsheets and other back up data to support the fee request  
TO DO - Larson to send letter to all Towns and City for the \$3.18 SFU rate request. Reference today's presentation in letter as background / attachment.
5. Discussion of cost share on Pub Ed for FY 16 – Eric, Shelby, All  
Shelby presented a draft budget of \$55,800. Larson explained that unspent funds from previous years using Carolina Clear had been returned to the County.  
Recommendation - Do \$60,000 minus the Carolina Clear funds. MOU for FY 16 will have a "WHEREAS clause" about the Carolina Clear refund.  
TO DO - Larson to revise cost share calculation for Pub Ed.  
Kiosk - general consensus to not update the content. Recommended a FY 126 activity to deploy to libraries.  
Larson to contact Morris Campbell to discuss.
6. Discussion on County's Utility Rate study and possible Municipalities add-on – Eric, All  
General consensus was to go forward with the joint study. All Towns and City need to get approval and sign the proposed MOU. Changes to the MOU draft were proposed.
7. Discussion of 2016 Management Plan (master plan) scope of services and cost share – Eric, All  
Agreed to budget for \$300,000. Further meetings needed for defining scope of work and how to procure the services.
8. Other Business? None presented.
9. Adjourn approx. 3:30 pm



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**From:** Flake, Amanda  
**Sent:** Tuesday, March 03, 2015 2:42 PM  
**To:** Larson, Eric  
**Cc:** Frazier, Delores; Criscitiello, Anthony; Merchant, Robert  
**Subject:** River Buffer Policy summary for Stormwater Utility Board inquiry

Eric,  
The river buffer section of the Community Development Code is located in Division 5.11.60 Resource Protection Standards. If a citizen would like to perform work within the river buffer, the following rules apply:

**BEAUFORT COUNTY APPROVAL REQUIRED:** Approval by Beaufort County is required for the following items:

1. Encroachment into the river buffer setback for a house, pool, or septic system.
2. Construction of a bulkhead, rip-rap, or other erosion control device (approved by OCRM – Ocean and Coastal Resource Management).
3. Construction of access drives, water/sewer lines, and trails within the buffer.
4. Any tree removal.
5. Selective clearing and landscaping to provide a View Corridor (up to 75 ft. or one-third of lot width, whichever is less).

**BEAUFORT COUNTY APPROVAL NOT REQUIRED:** Beaufort County approval is not required if a person only wants to add vegetation to the river buffer or maintain existing vegetation. Staff provides four different brochures that educate the public on how to properly plant river buffers and includes suggestions of native plants that tolerate the salty environment.

Thanks,  
Amanda

Amanda Flake  
Natural Resources Planner  
Beaufort County Planning Department  
PO Drawer 1228  
Beaufort, SC 29901  
843-255-2142  
[aflake@bcgov.net](mailto:aflake@bcgov.net)

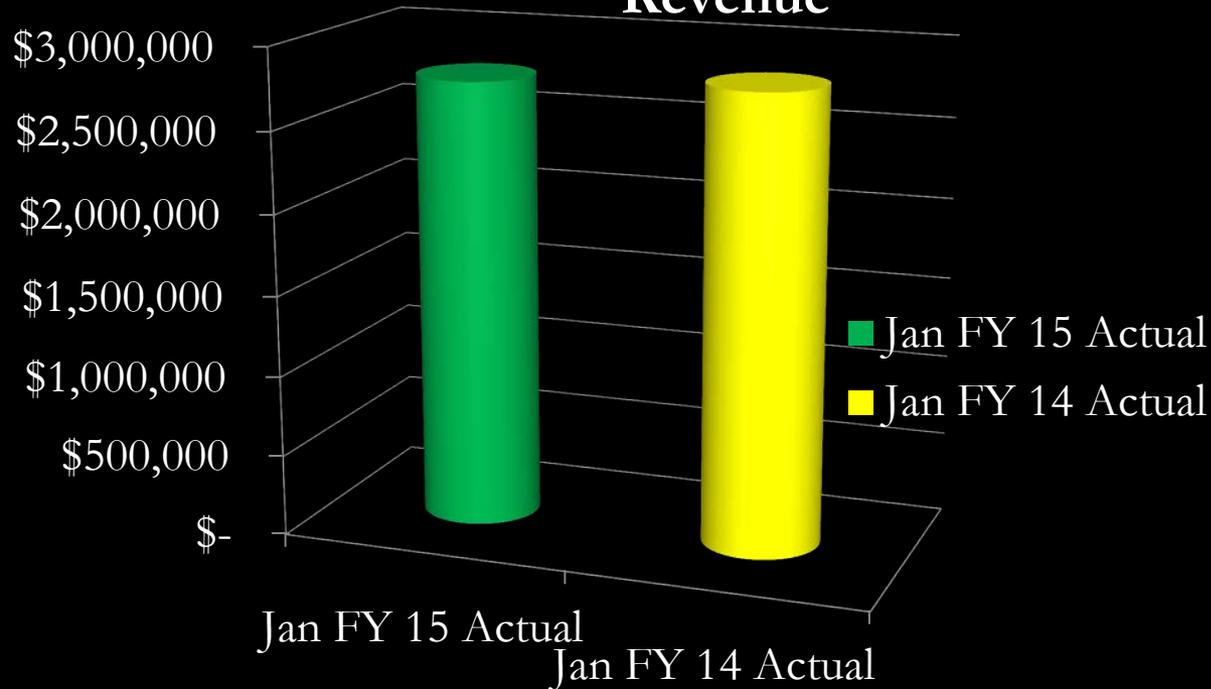


# Stormwater Management Utility Meeting Board

# STORMWATER FINANCIALS

# January Unaudited Financials

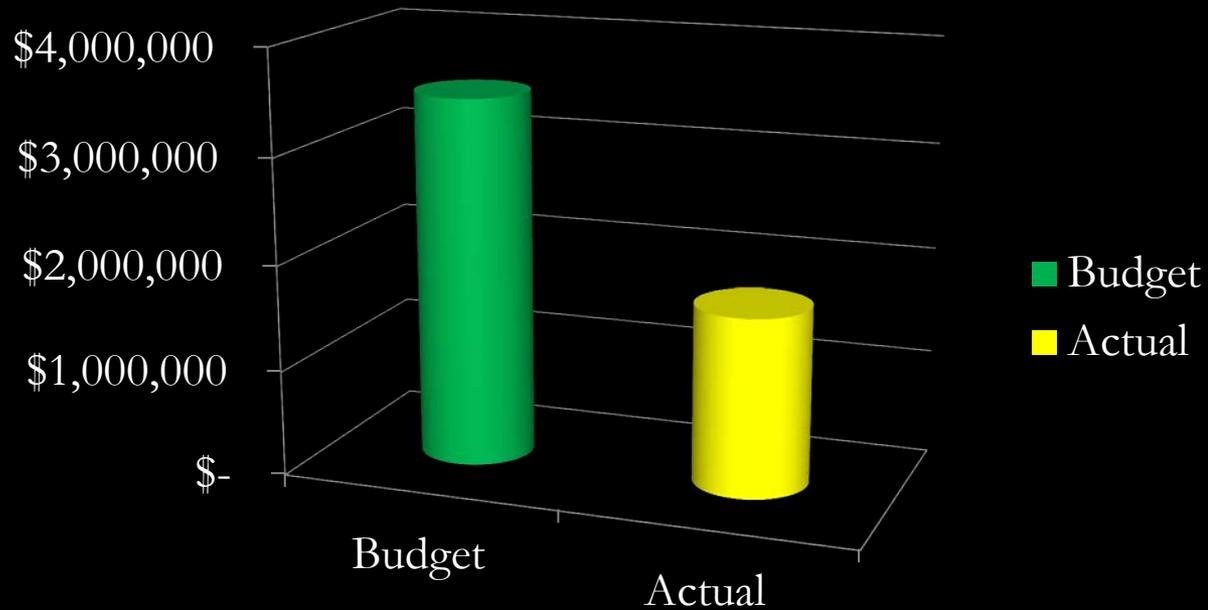
## January FY 15 Revenue vs. January FY 14 Revenue



Actual FY15 revenues are \$43,000 less or 1% than actual FY 14 revenues

# January Unaudited Financials

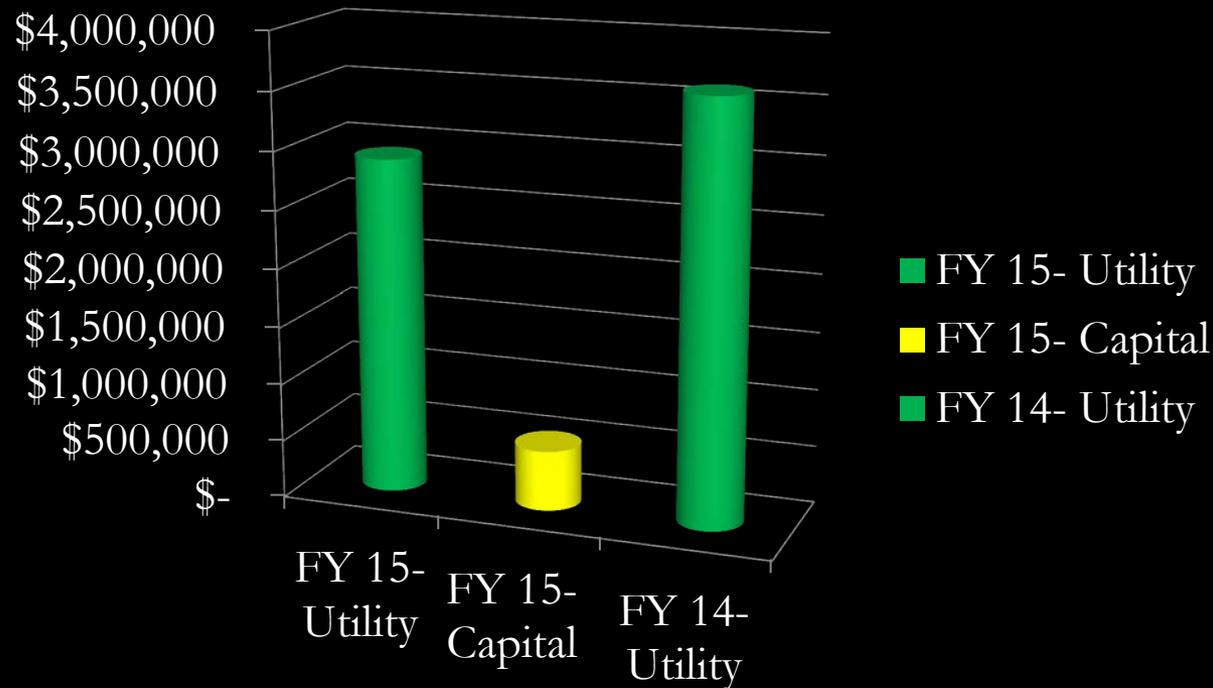
## January FY 15 Expenses vs. FY 15 Budget



Actual January FY15 expenses are at 49% of budget for FY 15

# January Unaudited Financials

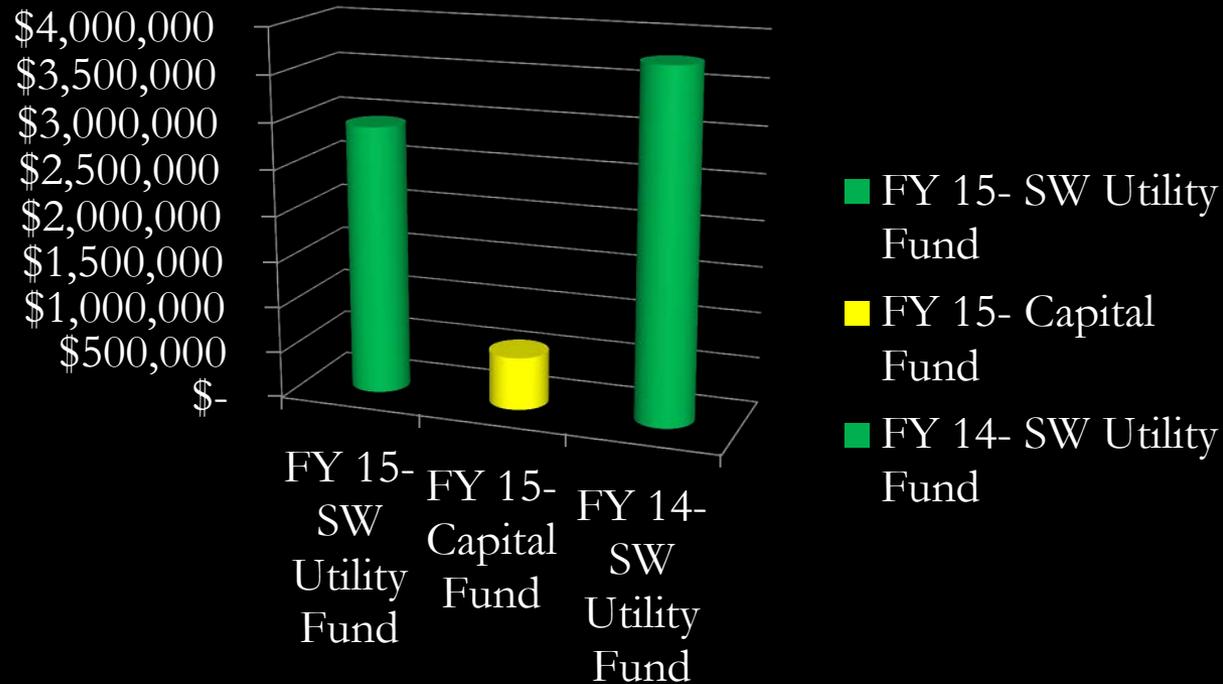
## Fund Balance from Balance Sheet



FY15 Fund Balances decreased by \$177,000 or 5%

# January Unaudited Financials

## Cash from Balance Sheet



FY15 Cash Balances decreased by \$258,000 or 6%



## MEMORANDUM

Date: March 18, 2015

To: Stormwater Management Utility Board

From: Eddie Bellamy, Public Works Director

Re: **Maintenance Project Report for March 18, 2015**

1. This report will cover 17 minor or routine projects. The Project Summary Reports are attached:

- A. **Port Royal Island Vacuum Truck Work**, completed in November in District 6; we cleaned out 16 catch basins and jetted out seven crossline pipes, 150 feet of roadside pipe, and 106 feet of channel pipe on seven separate roads.
- B. **Lady's Island Vacuum Truck Work**, completed in December in District 7; we cleaned out 19 catch basins and jetted out 15 crossline pipes, 30 driveway pipes, 32 feet of roadside pipe, and 184 feet of channel pipe on 14 separate roads.
- C. **Sheldon Township Vacuum Truck Work**, completed in November in District 5; we jetted out 13 crossline pipes, three access pipes, and 22 driveway pipes on four separate roads.
- D. **St. Helena Island Vacuum Truck Work**, completed in December in District 8; we cleaned out 27 catch basins and jetted out 14 crossline pipes, three access pipes, 23 driveway pipes, and 708 feet of roadside pipe on 15 separate roads.
- E. **Wimbee Creek Road Channel #2**, completed in November in District 5; we cleaned out 40 feet of roadside ditch.
- F. **Port Royal Island Bush Hogging**, completed in January in District 6; we bush hogged 116,704 feet of channel and workshelf. Total cost of the effort was **\$68,678** or **\$.59** per linear foot.
- G. **Pinewood Circle Channel #1**, completed in January in District 6; we removed quite a few blockages from the flowline and repaired a washout.
- H. **Riley Road Channel #1**, completed in January in District 6; we cleaned out 770 feet of channel.
- I. **Warsaw Island Road**, completed in January in District 8; we extended a crossline pipe.
- J. **Bruce K. Smalls Drive Channel #1**, completed in January in District 6; we removed 660 feet of blockages by hand.
- K. **Fairfield Road**, completed in January in District 7; we reset two catch basin lids.
- L. **Dogwood Street**, completed in January in District 6; we removed blockages from the flowline.
- M. **Poppy Hill Road**, completed in January in District 6; we reset two catch basin lids.

- N. **Jenkins Port Road**, completed in February in District 8; we installed two driveway pipes and rip rap for erosion control.
- O. **Saint Helena Island Valley Drains**, completed in December in District 8; we cleaned out 22,388 feet of valley drains on seven separate roads.
- P. **Booker T. Washington Circle Channel #1**, completed in February in District 5; we cleaned out 1,732 feet of channel.
- Q. **Middlefield Circle Channel**, completed in February in District 5, we cleaned out 3,490 feet of channel.



**Beaufort County**  
**Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** Port Royal Island Vacuum Truck - Murray Drive, Blackburne Pierce Drive, Harold Drive, Campbell Road, Donaldson Drive, Peace Haven Drive and Roseida Road Extension

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

**Completion:** Nov-14

Project improved 196 L.F. of drainage system. Cleaned out (16) catch basins. Jetted (7) crossline pipes, 150 L.F. of roadside pipe and 106 L.F. of channel pipe.

<b>2015-306 / Port Royal Island Vacuum Truck</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
ADS / Administrative Support	2.0	\$47.96	\$44.32	\$0.00	\$0.00	\$32.94	\$125.22
AUDIT / Audit Project	1.0	\$20.46	\$0.00	\$0.00	\$0.00	\$13.23	\$33.69
CBCO / Catch basin - clean out	80.0	\$1,765.79	\$886.40	\$292.80	\$0.00	\$994.80	\$3,939.79
CLJS / Cleaned up jobsite	2.0	\$47.96	\$44.32	\$33.50	\$0.00	\$32.94	\$158.72
CLPJT / Crossline Pipe - Jetted	24.0	\$545.43	\$265.92	\$85.35	\$0.00	\$368.72	\$1,265.42
<b>2015-306 / Port Royal Island Vacuum Truck Sub Total</b>	<b>109.0</b>	<b>\$2,427.60</b>	<b>\$1,240.96</b>	<b>\$411.65</b>	<b>\$0.00</b>	<b>\$1,442.63</b>	<b>\$5,522.84</b>
<b>Grand Total</b>	<b>109.0</b>	<b>\$2,427.60</b>	<b>\$1,240.96</b>	<b>\$411.65</b>	<b>\$0.00</b>	<b>\$1,442.63</b>	<b>\$5,522.84</b>

Before



During



After



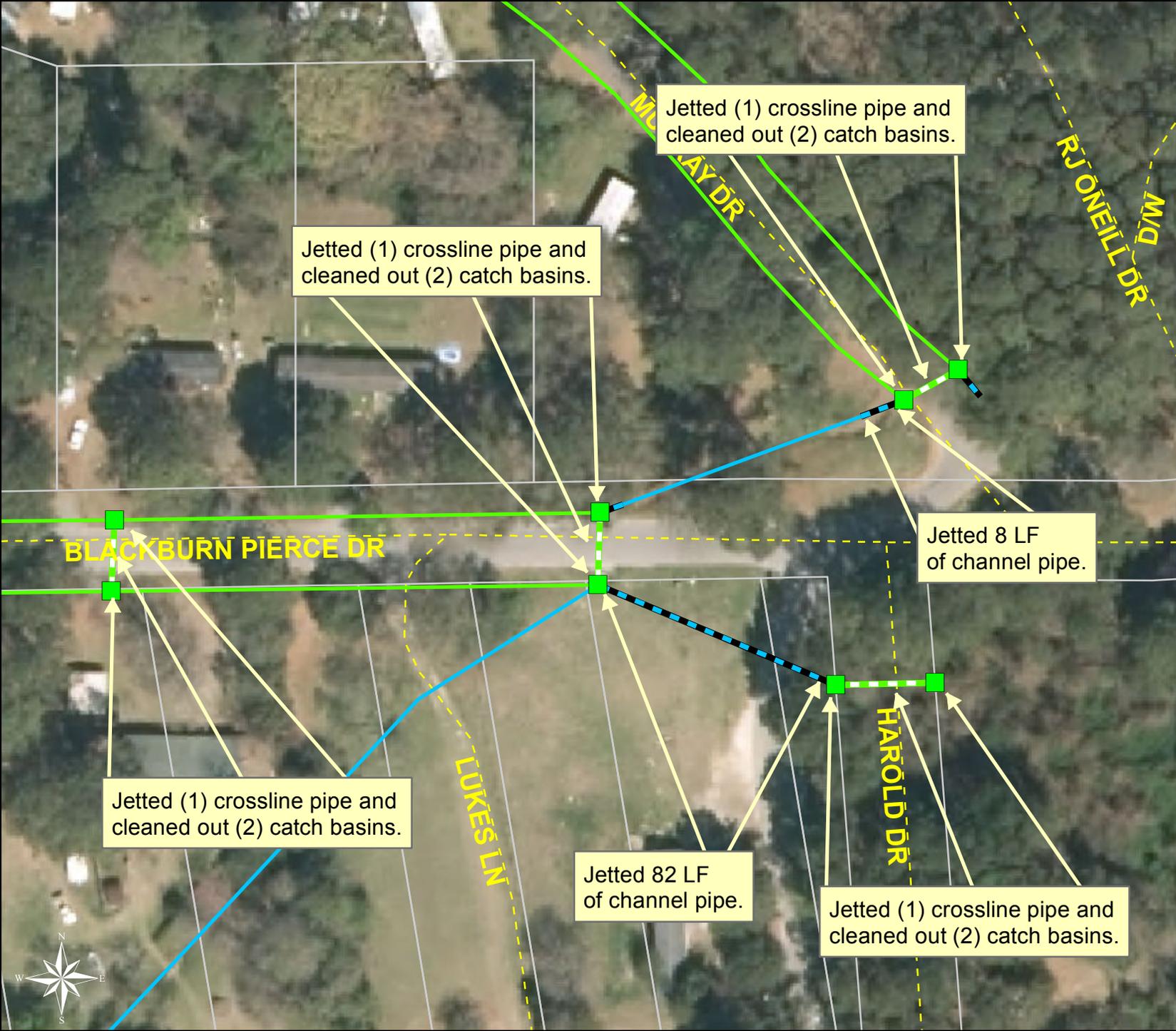
Project: Blackburn  
Pierce Drive, Murray  
Drive & Harold Drive

Activity: Vacuum  
Truck

Project #:  
2015-306

Township: Port  
Royal Island

Completed:  
November 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



1 inch = 69 feet



**Project: Campbell Road**

**Activity: Vacuum Truck**

**Project #: 2015-306**

**Township: Port Royal Island**

**Completed: November 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



**1 inch = 55 feet**



**Project: Donaldson Drive**

**Activity: Vacuum Truck**

**Project #: 2015-306**

**Township: Port Royal Island**

**Completed: November 2014**



Jetted 90 LF of roadside pipe.

Cleaned out (2) catch basins and jetted (1) crossline pipe.

**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



1 inch = 82 feet



**Project: Peace Haven Drive**  
**Activity: Vacuum Truck**  
**Project #: 2015-306**  
**Township: Port Royal Island**  
**Completed: November 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



1 inch = 97 feet



**Project: Roseida Road Ext**

**Activity: Vacuum Truck**

**Project #: 2015-306**

**Township: Port Royal Island**

**Completed: November 2014**

Jetted 8 LF of channel pipe.

Cleaned out (6) catch basins and jetted (1) crossline pipe.

**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



1 inch = 82 feet



**Beaufort County  
Public Works  
Stormwater Infrastructure  
Project Summary**

**Project Summary:** Ladys Island Vacuum Truck - Faculty Drive, Johnson Landing Road, Dog Creek Road, Harborview Circle, Piney Lane, Judge Island Drive, Deveaux Road, Honeysuckle Lane, Ethel Grant Lane, Ashley Drive, Woodbine Drive, Factory Creek Road, Telfair Drive and Spartina Street

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Project improved 216 L.F. of drainage system. Cleaned out (19) catch basins. Jetted (15) crossline pipes, (30) driveway pipes, 32 L.F. of roadside pipe and 184 L.F. of channel pipe.

**Completion:** Dec-14

<b>2015-307 / Ladys Island Vacuum Truck</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	1.0	\$20.46	\$0.00	\$0.00	\$0.00	\$13.23	\$33.69
CBCO / Catch basin - clean out	106.0	\$2,367.83	\$1,174.48	\$355.86	\$0.00	\$1,585.23	\$5,483.40
CLPINS / Crossline Pipe - Installed	16.0	\$357.41	\$177.28	\$64.97	\$0.00	\$239.28	\$838.94
CLPJT / Crossline Pipe - Jetted	66.0	\$1,488.69	\$952.88	\$333.82	\$0.00	\$879.24	\$3,654.62
CPJ / Channel Pipe - Jetted	12.0	\$268.06	\$132.96	\$41.30	\$0.00	\$179.46	\$621.78
DPJT / Driveway Pipe - Jetted	8.0	\$178.70	\$88.64	\$40.64	\$0.00	\$119.64	\$427.63
ONJV / Onsite Job Visit	2.0	\$66.36	\$7.24	\$6.54	\$0.00	\$48.94	\$129.08
PRRECON / Project Reconnaissance	4.0	\$89.35	\$44.32	\$9.21	\$0.00	\$59.82	\$202.70
<b>2015-307 / Ladys Island Vacuum Truck Sub Total</b>	<b>215.0</b>	<b>\$4,836.86</b>	<b>\$2,577.80</b>	<b>\$852.33</b>	<b>\$0.00</b>	<b>\$3,124.84</b>	<b>\$11,391.83</b>
<b>Grand Total</b>	<b>215.0</b>	<b>\$4,836.86</b>	<b>\$2,577.80</b>	<b>\$852.33</b>	<b>\$0.00</b>	<b>\$3,124.84</b>	<b>\$11,391.83</b>

Before



During



After



**Project: Ashley Drive & Woodbine Drive**

**Activity: Vacuum Truck**

**Project #: 2015-307**

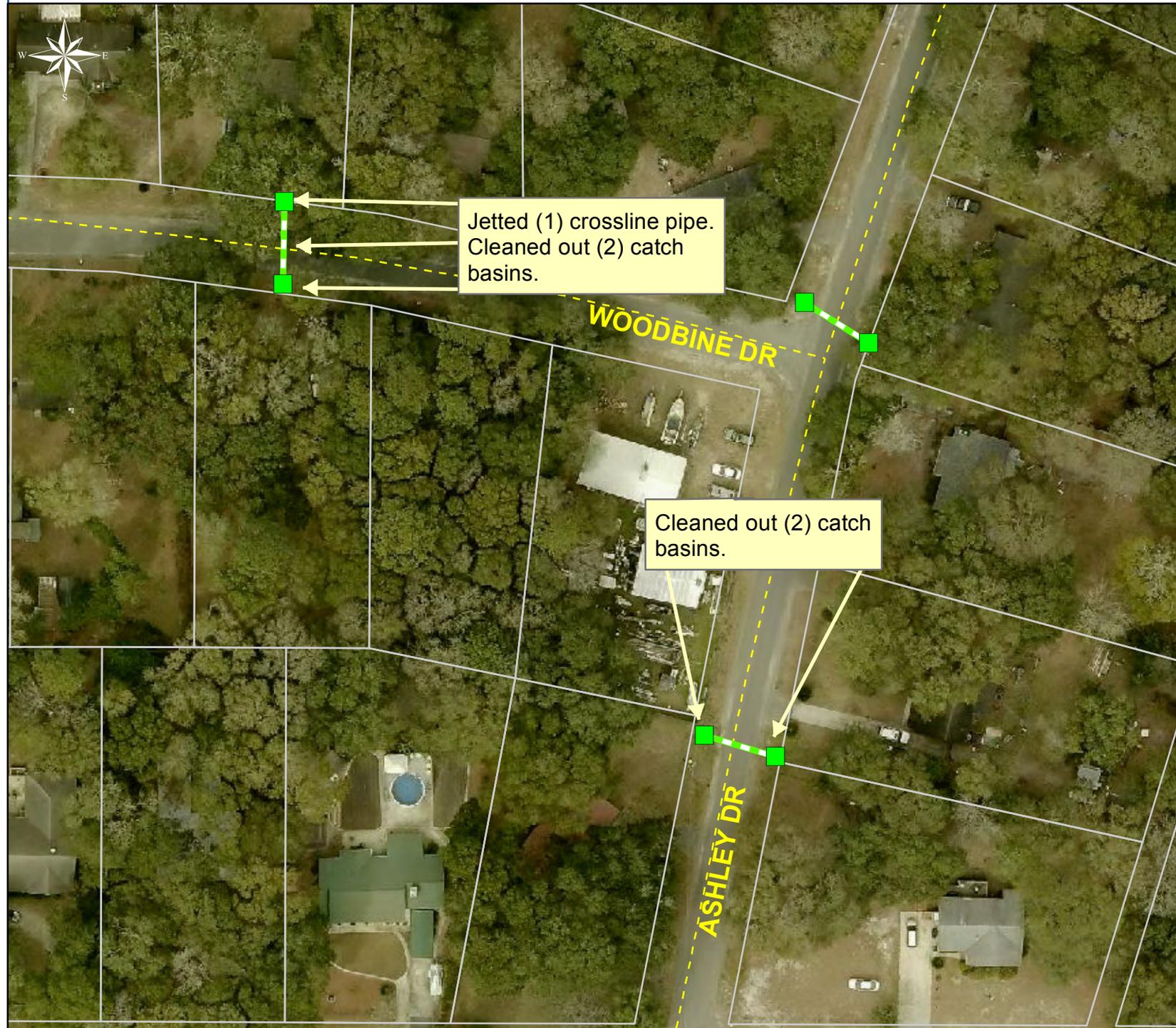
**Township: Lady's Island**

**Completed: December 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 15 30 60 90 120 Feet

1 inch = 74 feet

Prepared By: BC Stormwater Management Utility

Date Print: 1/28/15

File: C:/sethdata/projects/projectmaps/Vac/Woodbine Dr 2015-307



**Project: Deveaux Road**

**Activity: Vacuum Truck**

**Project #: 2015-307**

**Township: Lady's Island**

**Completed: December 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



**1 inch = 102 feet**

**Project: Dog Creek Road Map 1**

**Activity: Vacuum Truck**

**Project #: 2015-307**

**Township: Lady's Island**

**Completed: December 2014**



Cleaned out (1) catch basin.

Jetted 24 LF of roadside pipe.

**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



1 inch = 133 feet

**Project: Dog Creek Road Map 2**

**Activity: Vacuum Truck**

**Project #: 2015-307**

**Township: Lady's Island**

**Completed: December 2014**

Jetted (2) crossline pipes.

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



1 inch = 59 feet

**Project: Ethel Grant Lane**

**Activity: Vacuum Truck**

**Project #: 2015-307**

**Township: Lady's Island**

**Completed: December 2014**

Cleaned out (2) catch basins.

ETHEL GRANT LN

COOSAW RIVER DR

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



1 inch = 40 feet

**Project: Factory  
Creek Road**

**Activity: Vacuum  
Truck**

**Project #:  
2015-307**

**Township: Lady's  
Island**

**Completed:  
December 2014**



Cleaned out (4) catch basins.

**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 = 102 feet

Prepared By: BC Stormwater Management Utility

Date Print: 1/28/15

File:C:/sethdata/projects/projectmaps/Vac/Factory Creek 2015-307

**Project:**  
**Honeysuckle Lane**

**Activity: Vacuum Truck**

**Project #:**  
**2015-307**

**Township: Lady's Island**

**Completed:**  
**December 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

Cleaned out (1) catch basin.

Jetted (1) crossline pipe and (1) driveway pipe.

D/W

HONEYSUCKLE LN



1 inch = 70 feet

**Project: Judge Island Drive**

**Activity: Vacuum Truck**

**Project #: 2015-307**

**Township: Lady's Island**

**Completed: December 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



**1 inch = 149 feet**

**Project: Piney Lane**

**Activity: Vacuum Truck**

**Project #: 2015-307**

**Township: Lady's Island**

**Completed: December 2014**

Jetted (1) crossline pipe.

**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



1 inch = 125 feet

**Project: Spartina Street**

**Activity: Vacuum Truck**

**Project #:  
2015-307**

**Township: Lady's Island**

**Completed:  
December 2014**

Jetted (1)  
crossline pipe.

**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



**1 inch = 175 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 1/28/15

File: C:/sethdata/projects/projectmaps/Vac/Spartina St 2015-307

**Project: Telfair Drive**

**Activity: Vacuum Truck**

**Project #: 2015-307**

**Township: Lady's Island**

**Completed: December 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



**1 inch = 71 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 1/28/15

File: C:/sethdata/projects/projectmaps/Vac/Telfair Dr 2015-307

**Project: Faculty Drive**

**Activity: Vacuum Truck**

**Project #: 2015-307**

**Township: Lady's Island**

**Completed: December 2014**

Cleaned out (2) catch basins.

**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



1 inch = 144 feet

Prepared By: BC Stormwater Management Utility

Date Print: 1/28/15

File: C:/sethdata/projects/projectmaps/Vac/Faculty Dr 2015-307

Project: Harborview Circle

Activity: Vacuum Truck

Project #: 2015-307

Township: Lady's Island

Completed: December 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



1 inch = 83 feet

Project: Johnson Landing Road Map 1

Activity: Vacuum Truck

Project #: 2015-307

Township: Lady's Island

Completed: December 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



1 inch = 171 feet

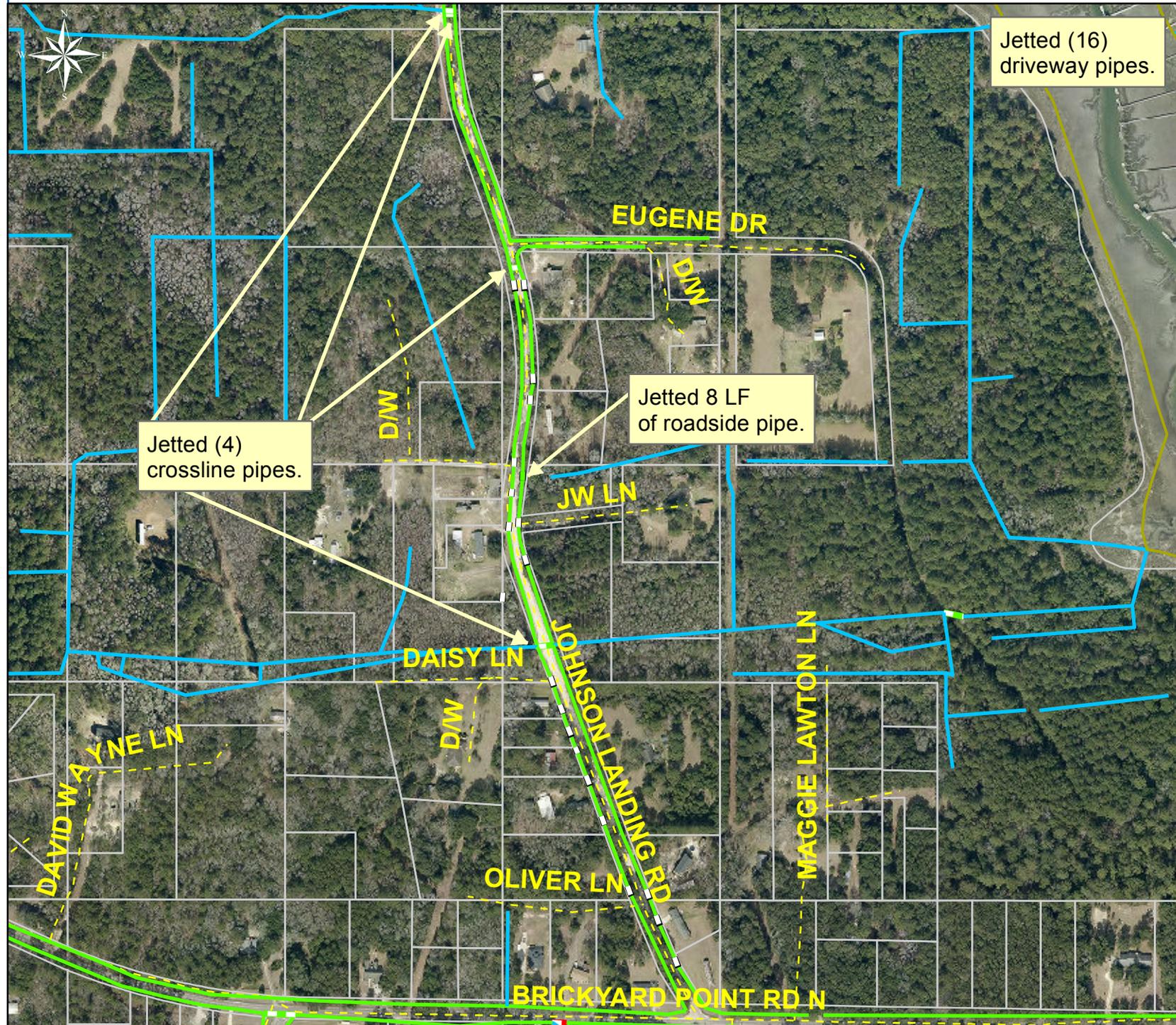
Project: Johnson Landing Road Map 2

Activity: Vacuum Truck

Project #: 2015-307

Township: Lady's Island

Completed: December 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



1 inch = 411 feet

Prepared By: BC Stormwater Management Utility

Date Print: 1/28/15

File:C:/sethdata/projects/projectmaps/Vac/Johnson Landing Rd 2015-307 Map2



**Beaufort County**  
**Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** Sheldon Vacuum Truck - Player Road, Paige Point Bluff, George Williams Lane and Twickenham Road

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Jetted (13) crossline pipes, (3) access pipes and (22) driveway pipes.

**Completion:** Nov-14

<b>2015-308 / Sheldon Vacuum Truck</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	1.0	\$20.46	\$0.00	\$0.00	\$0.00	\$13.23	\$33.69
CLPJT / Crossline Pipe - Jetted	34.0	\$782.48	\$531.84	\$181.38	\$0.00	\$529.68	\$2,025.38
CPJ / Channel Pipe - Jetted	8.0	\$178.70	\$88.64	\$43.50	\$0.00	\$119.64	\$430.48
DPJT / Driveway Pipe - Jetted	32.0	\$767.36	\$709.12	\$207.10	\$0.00	\$527.04	\$2,210.61
PRRECON / Project Reconnaissance	4.0	\$89.35	\$44.32	\$28.50	\$0.00	\$59.82	\$221.99
<b>2015-308 / Sheldon Vacuum Truck Sub Total</b>	<b>79.0</b>	<b>\$1,838.36</b>	<b>\$1,373.92</b>	<b>\$460.47</b>	<b>\$0.00</b>	<b>\$1,249.41</b>	<b>\$4,922.16</b>
<b>Grand Total</b>	<b>79.0</b>	<b>\$1,838.36</b>	<b>\$1,373.92</b>	<b>\$460.47</b>	<b>\$0.00</b>	<b>\$1,249.41</b>	<b>\$4,922.16</b>

Before



During



After



**Project: George Williams Lane**

**Activity: Vacuum Truck**

**Project #: 2015-308**

**Township: Sheldon**

**Completed: November 2014**

Jetted (11) driveway pipes.

Jetted (3) access pipes.

Jetted (2) crossline pipes.

**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



1 inch = 199 feet

Prepared By: BC Stormwater Management Utility

Date Print: 2/9/15

File: C:/sethdata/projects/projectmaps/Vac/George Williams Ln 2015-308

**Project: Paige Point Bluff Map 1**

**Activity: Vacuum Truck**

**Project #: 2015-308**

**Township: Sheldon**

**Completed: November 2014**

Jetted (1) crossline pipe.

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



1 inch = 191 feet



D/W

PAIGE POINT BLF

Jetted (2) crossline pipes.

**Project: Paige Point Bluff Map 2**

**Activity: Vacuum Truck**

**Project #: 2015-308**

**Township: Sheldon**

**Completed: November 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



1 inch = 293 feet

Prepared By: BC Stormwater Management Utility

Date Print: 2/9/15

File: C:/sethdata/projects/projectmaps/Vac/Paige Pt Bluff 2015-308 Map2

**Project: Paige Point Bluff Map 3**

**Activity: Vacuum Truck**

**Project #: 2015-308**

**Township: Sheldon**

**Completed: November 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



**1 inch = 150 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 2/9/15

File: C:/sethdata/projects/projectmaps/Vac/Paige Pt Bluff 2015-308 Map3

**Project: Player Road**

**Activity: Vacuum Truck**

**Project #:  
2015-308**

**Township:  
Sheldon**

**Completed:  
November 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



**1 inch = 119 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 2/9/15

File:C:/sethdata/projects/projectmaps/Vac/Player Rd 2015-308



Project: Twickenham Road

Activity: Vacuum Truck

Project #: 2015-308

Township: Sheldon

Completed: November 2014

Jetted (1) crossline pipe.

Jetted (11) driveway pipes.



**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 = 355 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 2/9/15  
File:C:/sethdata/projects/projectmaps/Vac/Twickenham Rd 2015-308



**Beaufort County**  
**Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** St. Helena Island Vacuum Truck - James D. Washington Road, Shed Road, St. Helena Island Ball Park, Simmons Road, Levant Byas Road, Ashton Drive, Jonathan Francis Sr Road, Mattis Drive, Fripp Point Road, Coffin Bluff, Chisholm Road, David Green Road, Jenkins Port Road, Capers Island Circle and Shiney Road

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Project improved 708 L.F. of drainage system. Cleaned out (27) catch basins. Jetted (3) access pipes, (14) crossline pipes, (23) driveway pipes and 708 L.F. of roadside pipe.

**Completion:** Dec-14

<b>2015-309 / St. Helena Island Vacuum Truck</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	1.5	\$30.69	\$0.00	\$0.00	\$0.00	\$19.85	\$50.54
CBCO / Catch basin - clean out	74.0	\$1,653.01	\$819.92	\$252.15	\$0.00	\$1,106.67	\$3,831.75
CLPJT / Crossline Pipe - Jetted	14.0	\$329.15	\$265.92	\$69.39	\$0.00	\$224.52	\$888.98
DPJT / Driveway Pipe - Jetted	40.0	\$893.52	\$443.20	\$173.09	\$0.00	\$598.20	\$2,108.01
PP / Project Preparation	6.0	\$134.03	\$66.48	\$36.30	\$0.00	\$89.73	\$326.54
PRRECON / Project Reconnaissance	16.0	\$357.41	\$177.28	\$32.88	\$0.00	\$239.28	\$806.84
RSPJ / Roadside Pipe - Jetted	16.0	\$357.41	\$177.28	\$41.88	\$0.00	\$239.28	\$815.85
<b>2015-309 / St. Helena Island Vacuum Truck Sub Total</b>	<b>167.5</b>	<b>\$3,755.22</b>	<b>\$1,950.08</b>	<b>\$605.68</b>	<b>\$0.00</b>	<b>\$2,517.52</b>	<b>\$8,828.50</b>
<b>Grand Total</b>	<b>167.5</b>	<b>\$3,755.22</b>	<b>\$1,950.08</b>	<b>\$605.68</b>	<b>\$0.00</b>	<b>\$2,517.52</b>	<b>\$8,828.50</b>

Before



During



After



**Project: Ashton Drive**

**Activity: Vacuum Truck**

**Project #: 2015-309**

**Township: St. Helena Island**

**Completed: December 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



**1 inch = 86 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 2/5/15

File: C:/sethdata/projects/projectmaps/Vac/Ashton Dr 2015-309



**Project: Ball Park Road**

**Activity: Vacuum Truck**

**Project #: 2015-309**

**Township: St. Helena Island**

**Completed: December 2014**

Jetted out  
(1) access pipe.

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



1 inch = 113 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 2/10/15  
File:C:/sethdata/projects/projectmaps/Vac/Ball Park Rd 2015-309

**BALL PARK RD**

**Project: Chisholm Road Map 1**

**Activity: Vacuum Truck**

**Project #: 2015-309**

**Township: St. Helena Island**

**Completed: December 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



1 inch = 84 feet

**Project: Chisholm Road Map 2**

**Activity: Vacuum Truck**

**Project #: 2015-309**

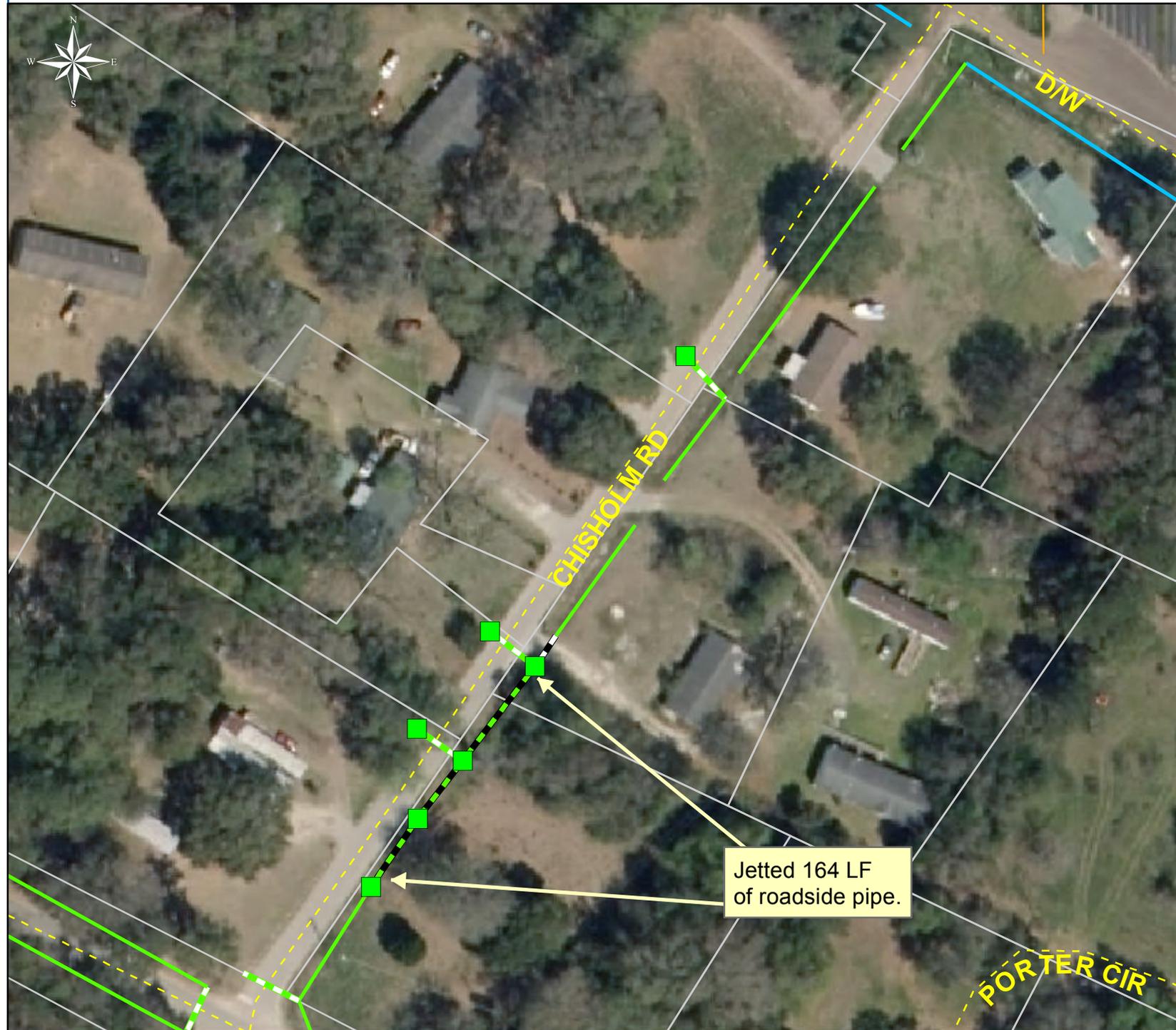
**Township: St. Helena Island**

**Completed: December 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



Jetted 164 LF of roadside pipe.



1 inch = 84 feet

Prepared By: BC Stormwater Management Utility

Date Print: 2/9/15

File: C:\sethdata\projects\projectmaps\Vac\Chisholm Rd 2015-309 Map2

Project: David Green Road & Capers Island Circle

Activity: Vacuum Truck

Project #: 2015-309

Township: St. Helena Island

Completed: December 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



1 inch = 241 feet

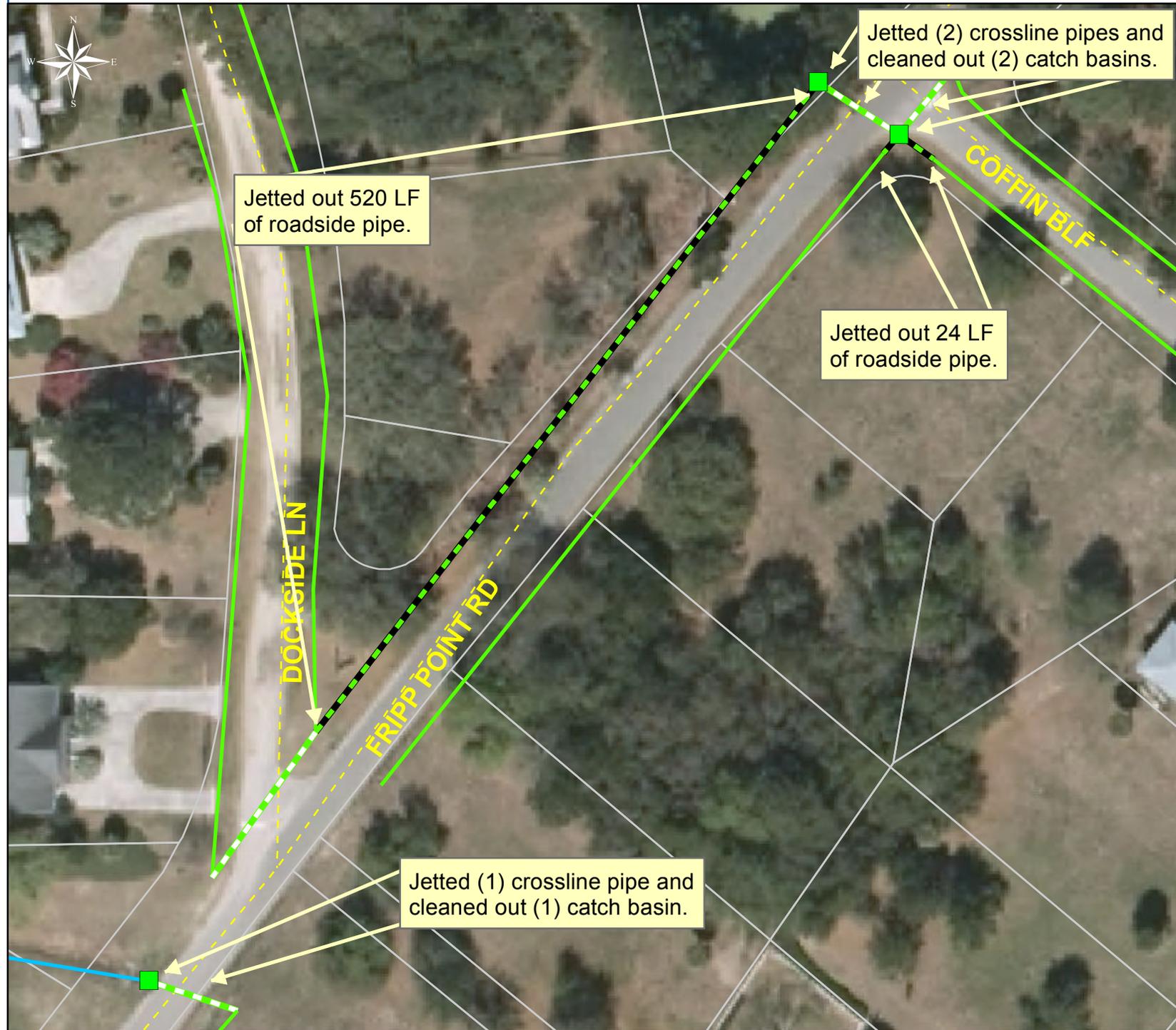
**Project: Fripp Point Road & Coffin Blf**

**Activity: Vacuum Truck**

**Project #: 2015-309**

**Township: St. Helena Island**

**Completed: December 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



**1 inch = 64 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 2/10/15

File: C:/sethdata/projects/projectmaps/Vac/Fripp Pt Rd 2015-309

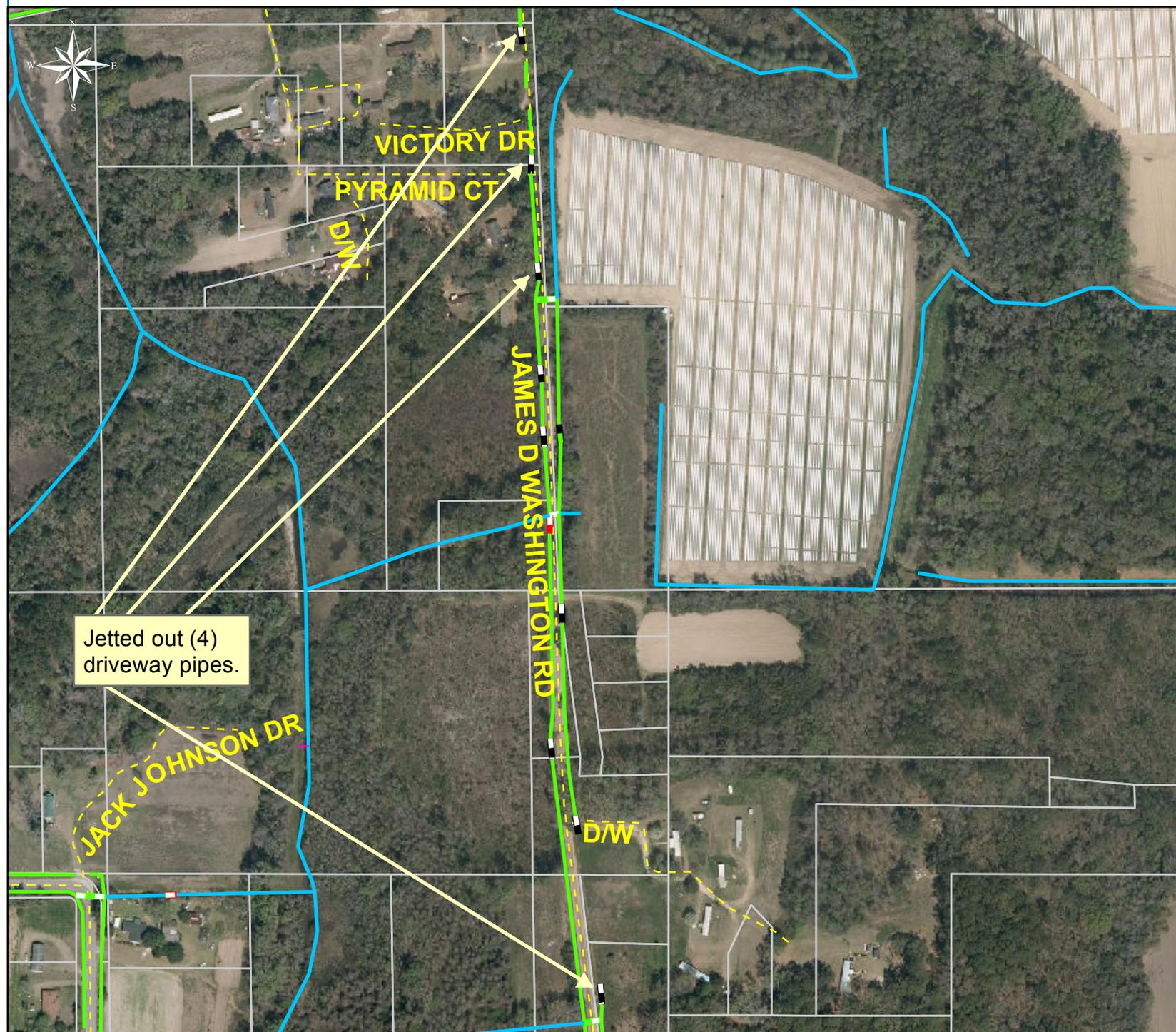
**Project: James D Washington Road**

**Activity: Vacuum Truck**

**Project #: 2015-309**

**Township: St. Helena Island**

**Completed: December 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

Jetted out (4) driveway pipes.



1 inch = 317 feet



**Project: Jenkins Port Road**

**Activity: Vacuum Truck**

**Project #: 2015-309**

**Township: St. Helena Island**

**Completed: December 2014**



Jetted out (3) crossline pipes and (2) driveway pipes.

**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



**1 inch = 104 feet**



**Project: Jonathan Francis Sr Road**

**Activity: Vacuum Truck**

**Project #: 2015-309**

**Township: St. Helena Island**

**Completed: December 2014**



Jetted out (1) crossline pipe.

**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



1 inch = 164 feet

**Project: Levant Byas Road**

**Activity: Vacuum Truck**

**Project #: 2015-309**

**Township: St. Helena Island**

**Completed: December 2014**

Cleaned out (4) catch basins and jetted (1) crossline pipe.

Cleaned out (5) catch basins.

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



1 inch = 223 feet

**Project: Mattis Drive**

**Activity: Vacuum Truck**

**Project #: 2015-309**

**Township: St. Helena Island**

**Completed: December 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



1 inch = 107 feet

**Project: Shed Road**

**Activity: Vacuum Truck**

**Project #: 2015-309**

**Township: St. Helena Island**

**Completed: December 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



**1 inch = 156 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 2/6/15

File: C:/sethdata/projects/projectmaps/Vac/Shed Rd 2015-309

**Project: Shiney Road**

**Activity: Vacuum Truck**

**Project #: 2015-309**

**Township: St. Helena Island**

**Completed: December 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



1 inch = 243 feet

Prepared By: BC Stormwater Management Utility

Date Print: 2/6/15

File:C:/sethdata/projects/projectmaps/Vac/Shiney Rd 2015-309

**Project: Simmons Road**

**Activity: Vacuum Truck**

**Project #: 2015-309**

**Township: St. Helena Island**

**Completed: December 2014**

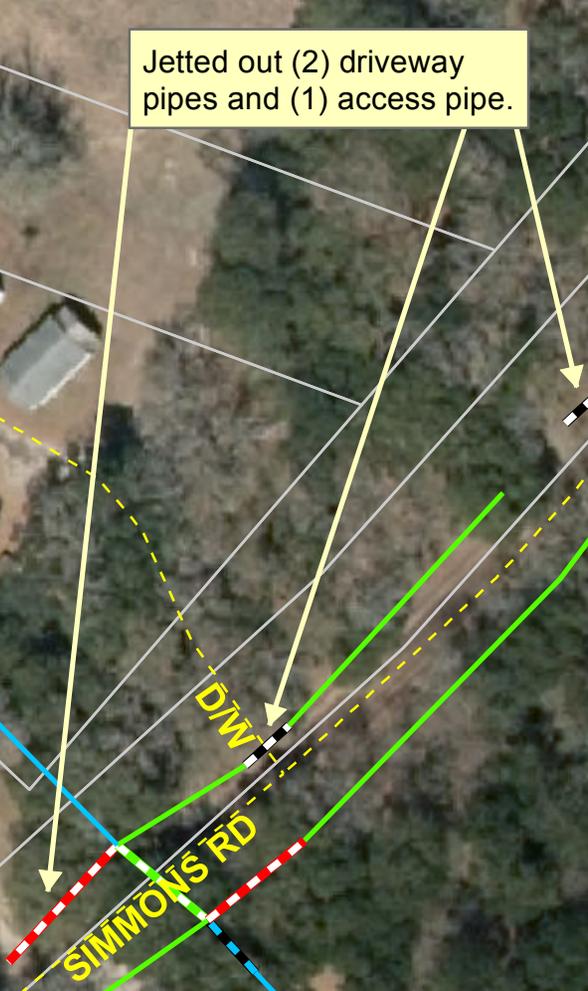
**Legend**

**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



Jetted out (2) driveway pipes and (1) access pipe.



0 20 40 80 120 160 Feet

1 inch = 90 feet



**Beaufort County**  
**Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** Wimbee Creek Road Channel #2

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Project improved 40 L.F. of drainage system. Cleaned out 40 L.F. of roadside ditch.

**Completion:** Nov-14

<b>2015-556 / Wimbee Creek Road Ch #2</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
HAUL / Hauling	8.0	\$184.79	\$85.60	\$22.80	\$0.00	\$125.61	\$418.80
RSDCL / Roadside Ditch - Cleanout	9.0	\$202.50	\$50.62	\$19.95	\$0.00	\$135.54	\$408.61
<b>2015-556 / Wimbee Creek Road Ch #2</b>	<b>17.5</b>	<b>\$397.52</b>	<b>\$136.22</b>	<b>\$42.75</b>	<b>\$0.00</b>	<b>\$267.77</b>	<b>\$844.26</b>
<b>Sub Total</b>							
<b>Grand Total</b>	<b>17.5</b>	<b>\$397.52</b>	<b>\$136.22</b>	<b>\$42.75</b>	<b>\$0.00</b>	<b>\$267.77</b>	<b>\$844.26</b>

Before



During



After



**Project: Wimbee  
Creek Road  
Channel 2**

**Activity: Routine/  
Preventive  
Maintenance**

**Project #:  
2015-556**

**Township:  
Sheldon**

**Completed:  
November 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



**1 inch = 121 feet**



# Beaufort County Public Works Stormwater Infrastructure Project Summary

**Project Summary:** Port Royal Island Bush Hog

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

**Completion:** Jan-15

First rotation from November 2014 to January 2015. Project improved 116,704 L.F. of drainage system. Bush hogged 116,704 L.F. of channel. This project consisted of the following areas: Colonial Avenue (1,207 L.F.), Salem Drive East (919 L.F.), Forest Field 1,399 L.F), Mink Point Boulevard (1,002 L.F.), Salem Drive West (934 L.F.), Deloach Avenue (1,683 L.F.), Stanley Farm Road (1,645 L.F.), Huron Drive (217 L.F.), Public Works Complex (3,000 L.F.), Parker Drive Channel 1 (5,155 L.F.), Pinewood Circle Channel's 1 and 2 (10,682 L.F.), Marina Boulevard (377 L.F.), LH Nelson Drive (3,654 L.F.), Cleveland Drive (1,591 L.F.), Industrial Park (1,978 L.F.), Schein Loop (5,897 L.F.), Young Circle (345 L.F.), Gillison Loop (837 L.F.), Greenleaf Lane (507 L.F.), Mulrain Road (703 L.F.), Smalls Road (1,181 L.F.), Quail Drive (234 L.F.), Gamecock Way (1,160 L.F.), Paukie Island Road (1156 L.F.), Ihly Farm Road (5,792 L.F.), Irongate Drive (588 L.F.), Mroz Road (1,168 L.F.), Robert Smalls Parkway Channel 1 (2,178 L.F.), Providence Road (648 L.F.), Poppy Hill Road (4,870 L.F.), Quarter Horse Road (4,309 L.F.), St Paul Church Road (2,192 L.F.), Island Tank Road (445 L.F.), Powell Drive (4,725 L.F.), County Shed Road (2,472 L.F.), Possum Hill Road (1,775 L.F.), Arnold Drive (360 L.F.), Burton Wells Road (10,699 L.F.), Cherokee Farms Road (3,100 L.F.), Pine Grove Road (3,407 L.F.), Mamie Frazer Lane (600 L.F.), Brilliant Lane (534 L.F.), Peace Haven Drive (647 L.F.), Mint Farm Drive (2,498 L.F.), Broad River Boulevard (909 L.F.), Fair Ground (864 L.F.), Leo Green Road (1,300 L.F.), Roseida Road (2,472 L.F.), Roseida Road Extension (410 L.F.), Zehm Lane (10,040 L.F.) and Capehart Circle (239 L.F.)

2015-301 / Port Royal Island Bush Hog	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	2.5	\$51.15	\$0.00	\$0.00	\$0.00	\$33.08	\$84.23
CBH / Channel- bushhogged	1,207.0	\$25,888.75	\$15,916.90	\$3,101.02	\$0.00	\$16,250.78	\$61,157.45
ONJV / Onsite Job Visit	59.0	\$1,955.35	\$213.58	\$207.10	\$0.00	\$1,428.26	\$3,804.29
PRRECON / Project Reconnaissance	80.0	\$1,660.00	\$144.80	\$68.89	\$0.00	\$1,085.60	\$2,959.29
TTL / Trim Tree Limbs	12.0	\$256.82	\$189.01	\$57.72	\$0.00	\$169.62	\$673.17
<b>2015-301 / Port Royal Island Bush Hog Sub Total</b>	<b>1,360.5</b>	<b>\$29,812.07</b>	<b>\$16,464.29</b>	<b>\$3,434.73</b>	<b>\$0.00</b>	<b>\$18,967.33</b>	<b>\$68,678.42</b>
<b>Grand Total</b>	<b>1,360.5</b>	<b>\$29,812.07</b>	<b>\$16,464.29</b>	<b>\$3,434.73</b>	<b>\$0.00</b>	<b>\$18,967.33</b>	<b>\$68,678.42</b>

Before



During



After





**Beaufort County**  
**Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** Pinewood Circle Channel #1

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Removed blockages from flowline. Repaired washout.

**Completion:** Jan-15

<b>2015-571 / Pinewood Circle Ch #1</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
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	\$226.47	\$0.00	\$144.20	\$693.97
ONJV / Onsite Job Visit	6.0	\$199.08	\$21.72	\$8.72	\$0.00	\$146.82	\$376.34
RPWO / Repaired Washout	40.0	\$818.20	\$274.76	\$60.28	\$0.00	\$531.00	\$1,684.24
<b>2015-571 / Pinewood Circle Ch #1 Sub Total</b>	<b>56.5</b>	<b>\$1,243.81</b>	<b>\$403.48</b>	<b>\$295.47</b>	<b>\$0.00</b>	<b>\$828.64</b>	<b>\$2,771.39</b>
<b>Grand Total</b>	<b>56.5</b>	<b>\$1,243.81</b>	<b>\$403.48</b>	<b>\$295.47</b>	<b>\$0.00</b>	<b>\$828.64</b>	<b>\$2,771.39</b>

Before



During



After



**Project: Pinewood  
Circle  
Channel 1**

**Activity: Routine/  
Preventive  
Maintenance**

**Project #:  
2015-571**

**Township: Port  
Royal Island**

**Completed:  
January 2015**

**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

Removed blockages  
from flowline.

Repaired washout.



1 inch = 311 feet



# Beaufort County Public Works Stormwater Infrastructure Project Summary

**Project Summary:** Riley Road Channel #1

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Project improved 770 L.F. of drainage system. Cleaned out 770 L.F. of channel.

**Completion:** Jan-15

<b>2015-572 / Riley Road Channel #1</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
CCO / Channel - cleaned out	60.0	\$1,373.52	\$430.24	\$105.46	\$0.00	\$867.00	\$2,776.22
HAUL / Hauling	40.0	\$818.20	\$214.00	\$47.34	\$0.00	\$532.60	\$1,612.14
ONJV / Onsite Job Visit	14.0	\$417.76	\$50.68	\$6.54	\$0.00	\$255.22	\$730.20
<b>2015-572 / Riley Road Channel #1</b>	<b>114.5</b>	<b>\$2,619.71</b>	<b>\$694.92</b>	<b>\$159.34</b>	<b>\$0.00</b>	<b>\$1,661.44</b>	<b>\$5,135.41</b>
<b>Sub Total</b>							
<b>Grand Total</b>	<b>114.5</b>	<b>\$2,619.71</b>	<b>\$694.92</b>	<b>\$159.34</b>	<b>\$0.00</b>	<b>\$1,661.44</b>	<b>\$5,135.41</b>

Before



During



After





**Project: Riley Road Channel 1**

**Activity: Routine/ Preventive Maintenance**

**Project #: 2015-572**

**Township: Port Royal Island**

**Completed: January 2015**

**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



**1 inch = 103 feet**

Prepared By: BC Stormwater Management Utility  
 Date Print: 2/5/15  
 File: C:/sethdata/projects/projectmaps/Riley Rd 2015-572



**Beaufort County**  
**Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** Warsaw Island Road

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Extended (1) crossline pipe.

**Completion:** Jan-15

<b>2015-576 / Warsaw Island Road</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
CLPEX / Crossline Pipe - Extended	24.0	\$534.82	\$61.48	\$169.21	\$0.00	\$339.48	\$1,104.98
HAUL / Hauling	18.0	\$375.24	\$128.40	\$57.86	\$0.00	\$246.30	\$807.80
ONJV / Onsite Job Visit	5.0	\$149.20	\$18.10	\$8.72	\$0.00	\$91.15	\$267.17
PRRECON / Project Reconnaissance	2.0	\$88.54	\$7.24	\$6.54	\$0.00	\$67.92	\$170.24
<b>2015-576 / Warsaw Island Road Sub Total</b>	<b>49.5</b>	<b>\$1,158.03</b>	<b>\$215.22</b>	<b>\$242.33</b>	<b>\$0.00</b>	<b>\$751.46</b>	<b>\$2,367.04</b>
<b>Grand Total</b>	<b>49.5</b>	<b>\$1,158.03</b>	<b>\$215.22</b>	<b>\$242.33</b>	<b>\$0.00</b>	<b>\$751.46</b>	<b>\$2,367.04</b>

Before



During



After



**Project: Warsaw  
Island Road**

**Activity: Routine/  
Preventive  
Maintenance**

**Project #:  
2015-576**

**Township: St.  
Helena Island**

**Completed:  
January 2015**

**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

Extended (1)  
crossline pipe.



**1 inch = 125 feet**



**Beaufort County**  
**Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** Bruce K. Smalls Drive Channel #1

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Project improved 660 L.F. of drainage system. Removed 660 L.F. blockages from flowline by hand.

**Completion:** Jan-15

<b>2015-578 / Bruce K. Smalls Drive Ch #1</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
ONJV / Onsite Job Visit	7.0	\$208.88	\$25.34	\$4.36	\$0.00	\$127.61	\$366.19
PL / Project Layout	22.0	\$469.36	\$18.10	\$5.26	\$0.00	\$293.91	\$786.63
PRRECON / Project Reconnaissance	4.0	\$148.22	\$14.48	\$6.54	\$0.00	\$104.38	\$273.62
RB / Remove blockage from flowline	6.0	\$137.36	\$7.24	\$10.52	\$0.00	\$86.70	\$241.82
<b>2015-578 / Bruce K. Smalls Drive Ch #1 Sub Total</b>	<b>39.5</b>	<b>\$974.05</b>	<b>\$65.16</b>	<b>\$26.68</b>	<b>\$0.00</b>	<b>\$619.21</b>	<b>\$1,685.10</b>
<b>Grand Total</b>	<b>39.5</b>	<b>\$974.05</b>	<b>\$65.16</b>	<b>\$26.68</b>	<b>\$0.00</b>	<b>\$619.21</b>	<b>\$1,685.10</b>

(Pictures Not Available)

**Project: Bruce K Smalls Drive Channel 1**

**Activity: Routine/ Preventive Maintenance**

**Project #: 2015-578**

**Township: Port Royal Island**

**Completed: January 2015**

**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



1 inch = 89 feet

Prepared By: BC Stormwater Management Utility

Date Print: 2/5/15

File: C:/sethdata/projects/projectmaps/Bruce K Smalls 2015-578



**Beaufort County**  
**Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** Fairfield Road

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Reset (2) catch basin lids.

**Completion:** Jan-15

<b>2015-579 / Fairfield Road</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
CBLRE / Catch Basin Lid - Reset	9.0	\$206.03	\$29.14	\$13.98	\$0.00	\$130.05	\$379.20
ONJV / Onsite Job Visit	1.0	\$33.18	\$3.62	\$6.54	\$0.00	\$24.47	\$67.81
<b>2015-579 / Fairfield Road Sub Total</b>	<b>10.5</b>	<b>\$249.44</b>	<b>\$32.76</b>	<b>\$20.52</b>	<b>\$0.00</b>	<b>\$161.14</b>	<b>\$463.85</b>
<b>Grand Total</b>	<b>10.5</b>	<b>\$249.44</b>	<b>\$32.76</b>	<b>\$20.52</b>	<b>\$0.00</b>	<b>\$161.14</b>	<b>\$463.85</b>

(Pictures Not Available)

**Project: Fairfield Road**

**Activity: Routine/  
Preventive  
Maintenance**

**Project #:  
2015-579**

**Township: Lady's  
Island**

**Completed:  
January 2015**

**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

Reset (2) catch basin lids.



1 inch = 110 feet



**Beaufort County**  
**Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** Dogwood Street

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Removed blockage from flowline.

**Completion:** Jan-15

<b>2015-580 / Dogwood Street</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
HAUL / Hauling	4.0	\$81.82	\$21.40	\$13.15	\$0.00	\$53.26	\$169.63
ONJV / Onsite Job Visit	5.0	\$178.06	\$18.10	\$6.54	\$0.00	\$122.61	\$325.31
RB / Remove blockage from flowline	15.0	\$329.51	\$41.27	\$2.63	\$0.00	\$210.06	\$583.47
<b>2015-580 / Dogwood Street Sub Total</b>	<b>24.5</b>	<b>\$599.62</b>	<b>\$80.77</b>	<b>\$22.32</b>	<b>\$0.00</b>	<b>\$392.55</b>	<b>\$1,095.25</b>
<b>Grand Total</b>	<b>24.5</b>	<b>\$599.62</b>	<b>\$80.77</b>	<b>\$22.32</b>	<b>\$0.00</b>	<b>\$392.55</b>	<b>\$1,095.25</b>

Before



During



After



**Project: Dogwood Street**

**Activity: Routine/ Preventive Maintenance**

**Project #: 2015-580**

**Township: Port Royal Island**

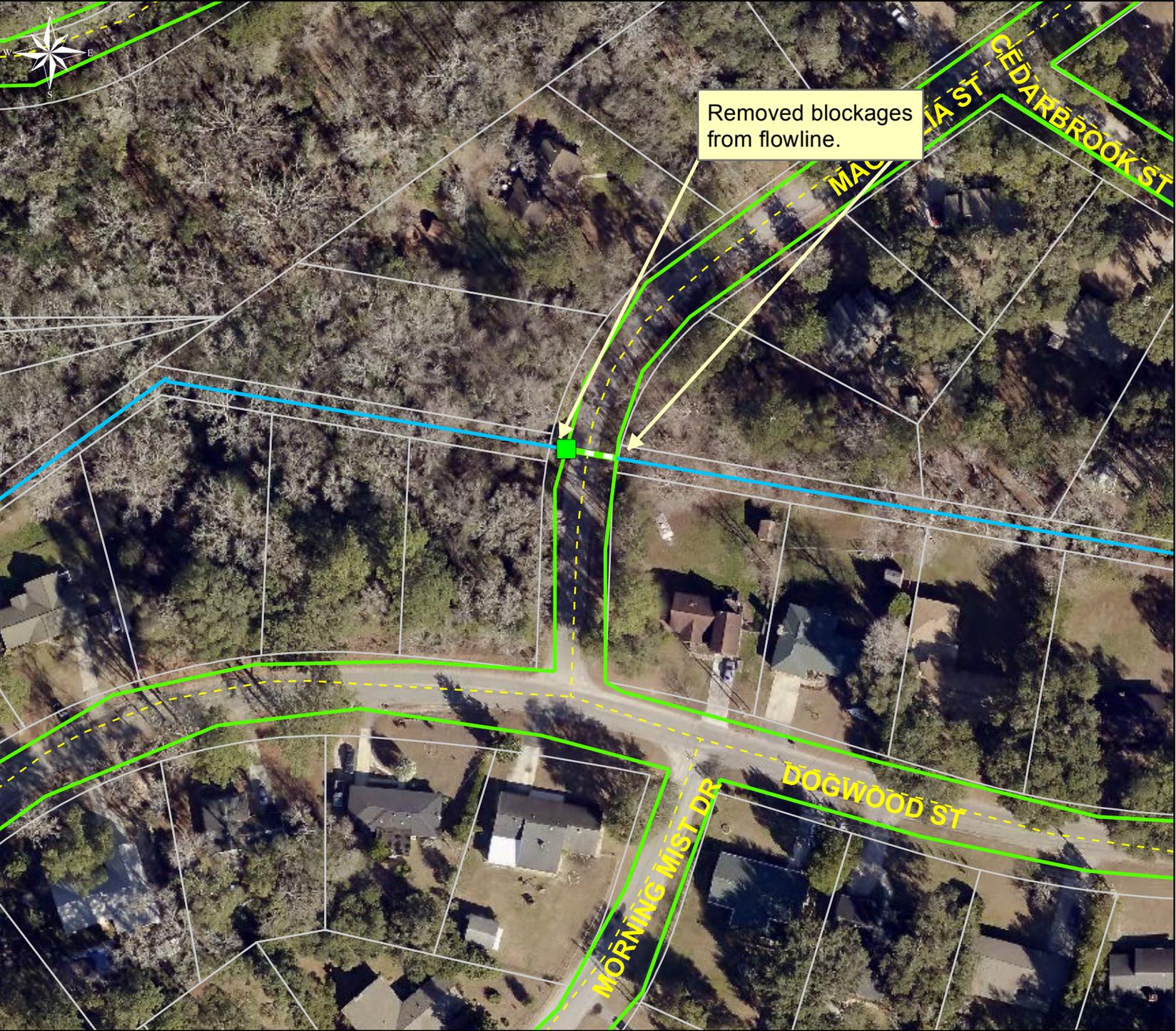
**Completed: January 2015**

**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

Removed blockages from flowline.



1 inch = 98 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 2/5/15  
File: C:/sethdata/projects/projectmaps/Dogwood St 2015-580



**Beaufort County**  
**Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** Poppy Hill Road

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Reset (2) catch basin lids by hand.

**Completion:** Jan-15

<b>2015-582 / Poppy Hill Road</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
CBLRE / Catch Basin Lid - Reset	6.0	\$137.35	\$7.24	\$5.26	\$0.00	\$86.70	\$236.55
<b>2015-582 / Poppy Hill Road</b>	<b>6.5</b>	<b>\$147.58</b>	<b>\$7.24</b>	<b>\$5.26</b>	<b>\$0.00</b>	<b>\$93.32</b>	<b>\$253.40</b>
<b>Sub Total</b>							
<b>Grand Total</b>	<b>6.5</b>	<b>\$147.58</b>	<b>\$7.24</b>	<b>\$5.26</b>	<b>\$0.00</b>	<b>\$93.32</b>	<b>\$253.40</b>

(Pictures Not Available)

**Project: Poppy Hill Road**

**Activity: Routine/  
Preventive  
Maintenance**

**Project #:  
2015-582**

**Township: Port  
Royal Island**

**Completed:  
January 2015**

**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

Reset (2) catch basin  
lids by hand.



**1 inch = 111 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 2/5/15

File: C:/sethdata/projects/projectmaps/Poppy Hill Rd 2015-582



**Beaufort County**  
**Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** Jenkins Port Road

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Installed (2) driveway pipes and rip rap for erosion control.

**Completion:** Feb-15

<b>2015-577 / Jenkins Port Road</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
DPINS / Driveway Pipe - Installed	40.0	\$891.40	\$199.22	\$531.89	\$0.00	\$565.80	\$2,188.31
HAUL / Hauling	22.5	\$463.18	\$133.75	\$277.79	\$0.00	\$302.35	\$1,177.07
ONJV / Onsite Job Visit	10.0	\$308.42	\$32.58	\$21.80	\$0.00	\$201.02	\$563.82
STAGING / Staging Materials	25.0	\$511.40	\$58.20	\$34.99	\$0.00	\$331.65	\$936.23
<b>2015-577 / Jenkins Port Road Sub Total</b>	<b>98.0</b>	<b>\$2,184.63</b>	<b>\$423.75</b>	<b>\$866.46</b>	<b>\$0.00</b>	<b>\$1,407.43</b>	<b>\$4,882.27</b>
<b>Grand Total</b>	<b>98.0</b>	<b>\$2,184.63</b>	<b>\$423.75</b>	<b>\$866.46</b>	<b>\$0.00</b>	<b>\$1,407.43</b>	<b>\$4,882.27</b>

Before



During



After



**Project: Jenkins Port Road**

**Activity: Routine/ Preventive Maintenance**

**Project #: 2015-577**

**Township: St. Helena Island**

**Completed: February 2015**

**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

Installed (1) driveway pipe and rip rap for erosion control.

Installed (1) driveway pipe and rip rap for erosion control.



1 inch = 54 feet

Prepared By: BC Stormwater Management Utility

Date Print: 2/10/15

File: C:/sethdata/projects/projectmaps/Jenkins Port Rd 2015-577



**Beaufort County**  
**Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** St. Helena Island Valley Drains

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Project improved 22,388 L.F. of drainage system. Cleaned out 22,388 L.F. of valley drains. This project consisted of the following areas: Hunters Grove Road (4,552 L.F.), Levant Byas Road (2,182 L.F.), Luther Warren Drive (4,700 L.F.), White Sands Circle (924 L.F.), Vineyard Point Road (1,044 L.F.), Tombee Road (7,368 L.F.), and The Avenue (1,618 L.F.)

**Completion:** Dec-14

<b>2015-502 / St. Helena Island Valley Drains</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	1.5	\$30.69	\$0.00	\$0.00	\$0.00	\$19.85	\$50.54
COVD / Cleaned Out Valley Drains	264.0	\$6,047.81	\$978.84	\$350.24	\$0.00	\$3,942.46	\$11,319.35
HAUL / Hauling	34.0	\$735.42	\$363.80	\$115.72	\$0.00	\$452.71	\$1,667.65
ONJV / Onsite Job Visit	29.0	\$898.76	\$104.98	\$63.22	\$0.00	\$591.07	\$1,658.03
<b>2015-502 / St. Helena Island Valley Drains Sub Total</b>	<b>328.5</b>	<b>\$7,712.68</b>	<b>\$1,447.62</b>	<b>\$529.18</b>	<b>\$0.00</b>	<b>\$5,006.08</b>	<b>\$14,695.56</b>
<b>Grand Total</b>	<b>328.5</b>	<b>\$7,712.68</b>	<b>\$1,447.62</b>	<b>\$529.18</b>	<b>\$0.00</b>	<b>\$5,006.08</b>	<b>\$14,695.56</b>

Before



During



After





**Project: Hunters Grove Road**

**Activity: Routine/ Preventive Maintenance**

**Project #: 2015-502**

**Township: St. Helena Island**

**Completed: December 2014**

**Legend**

**TYPE**

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



1 inch = 194 feet

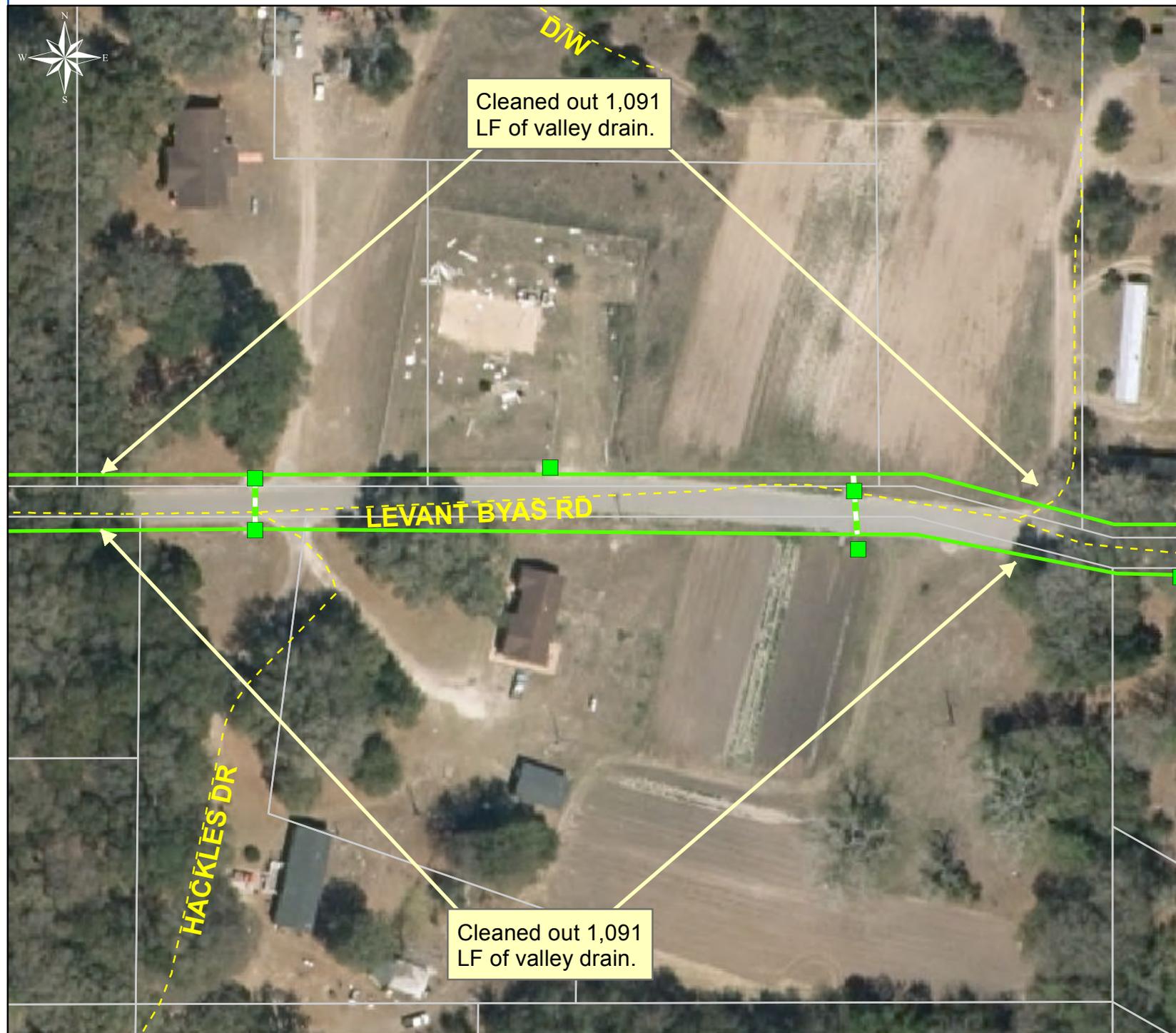
**Project: Levant Byas Road**

**Activity: Routine/  
Preventive  
Maintenance**

**Project #:  
2015-502**

**Township: St.  
Helena Island**

**Completed:  
December 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



**1 inch = 89 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 3/9/15

File: C:/sethdata/projects/projectmaps/Levant Byas Rd 2015-502

**Project: Luther Warren Drive**

**Activity: Routine/  
Preventive  
Maintenance**

**Project #:  
2015-502**

**Township: St.  
Helena Island**

**Completed:  
December 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



Cleaned out 2,350 LF of valley drain.

Cleaned out 2,350 LF of valley drain.



1 inch = 173 feet



**Project: White Sands Circle**

**Activity: Routine/ Preventive Maintenance**

**Project #: 2015-502**

**Township: St. Helena Island**

**Completed: December 2014**



Cleared out 462 LF of valley drain.

Cleared out 462 LF of valley drain.

**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



1 inch = 81 feet



**Project: Vineyard Point Road**

**Activity: Routine/ Preventive Maintenance**

**Project #: 2015-502**

**Township: St. Helena Island**

**Completed: December 2014**

Cleaned out 522 LF of valley drain.

Cleaned out 522 LF of valley drain.

VINEYARD POINT RD

**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



1 inch = 83 feet

**Project: Tombee Road**

**Activity: Routine/  
Preventive  
Maintenance**

**Project #:  
2015-502**

**Township: St.  
Helena Island**

**Completed:  
December 2014**

Cleaned out 3,684  
LF of valley drain.

Cleaned out 3,684  
LF of valley drain.

**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



1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print: 3/9/15

File: C:/sethdata/projects/projectmaps/Tombee Rd 2015-502

**Project:  
The Avenue**

**Activity: Routine/  
Preventive  
Maintenance**

**Project #:  
2015-502**

**Township: St.  
Helena Island**

**Completed:  
December 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

Cleaned out 809  
LF of valley drain.

Cleaned out 809  
LF of valley drain.

THE AVENUE

CHAPLIN



1 inch = 105 feet

Prepared By: BC Stormwater Management Utility

Date Print: 3/9/15

File: C:/sethdata/projects/projectmaps/The Avenue 2015-502



**Beaufort County**  
**Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** Booker T. Washington Circle Channel #1

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Project improved 1,732 L.F. of drainage system. Cleaned out 1,732 L.F. of channel.

**Completion:** Feb-15

<b>2015-565 / Booker T. Washington Circle Ch #1</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
CCO / Channel - cleaned out	40.0	\$879.50	\$239.92	\$54.44	\$0.00	\$463.70	\$1,637.56
<b>2015-565 / Booker T. Washington Circle Ch #1</b>	<b>40.5</b>	<b>\$889.73</b>	<b>\$239.92</b>	<b>\$54.44</b>	<b>\$0.00</b>	<b>\$470.32</b>	<b>\$1,654.41</b>
<b>Sub Total</b>							
<b>Grand Total</b>	<b>40.5</b>	<b>\$889.73</b>	<b>\$239.92</b>	<b>\$54.44</b>	<b>\$0.00</b>	<b>\$470.32</b>	<b>\$1,654.41</b>

Before



During



After





Project: Booker T. Washington Circle Channel #1

Activity: Routine/ Preventive Maintenance

Project #: 2015-565

Township: Sheldon

Completed: February 2015

**Legend**

**Drainage Type**

- River
- Stream
- Channel
- Lateral
- Lateral Pipe
- Roadside
- Roadside Pipe
- Road Pipe
- Crossline
- D/W
- Access
- Piped
- Bleeder

0 65 130 260 390 520 Feet

1 inch = 280 feet

Prepared By: BC Stormwater Management Utility

Date Print: 03/09/2015

File:C:\project summaries map\Booker T. Washington Circle Channel #1



# Beaufort County Public Works Stormwater Infrastructure Project Summary

**Project Summary:** Middlefield Circle

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Project improved 3,490 L.F. of drainage system. Cleaned out 3,490 L.F. of channel.

**Completion:** Feb-15

<b>2015-573 / Middlefield Circle</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
CCO / Channel - cleaned out	40.0	\$879.50	\$239.92	\$27.95	\$0.00	\$463.70	\$1,611.07
ONJV / Onsite Job Visit	2.0	\$88.54	\$7.24	\$3.56	\$0.00	\$67.92	\$167.26
PRRECON / Project Reconnaissance	2.0	\$59.68	\$7.24	\$1.78	\$0.00	\$36.46	\$105.16
RB / Remove blockage from flowline	20.0	\$439.75	\$119.96	\$30.10	\$0.00	\$231.85	\$821.66
<b>2015-573 / Middlefield Circle Sub Total</b>	<b>64.5</b>	<b>\$1,477.70</b>	<b>\$374.36</b>	<b>\$63.39</b>	<b>\$0.00</b>	<b>\$806.54</b>	<b>\$2,721.99</b>
<b>Grand Total</b>	<b>64.5</b>	<b>\$1,477.70</b>	<b>\$374.36</b>	<b>\$63.39</b>	<b>\$0.00</b>	<b>\$806.54</b>	<b>\$2,721.99</b>

Before

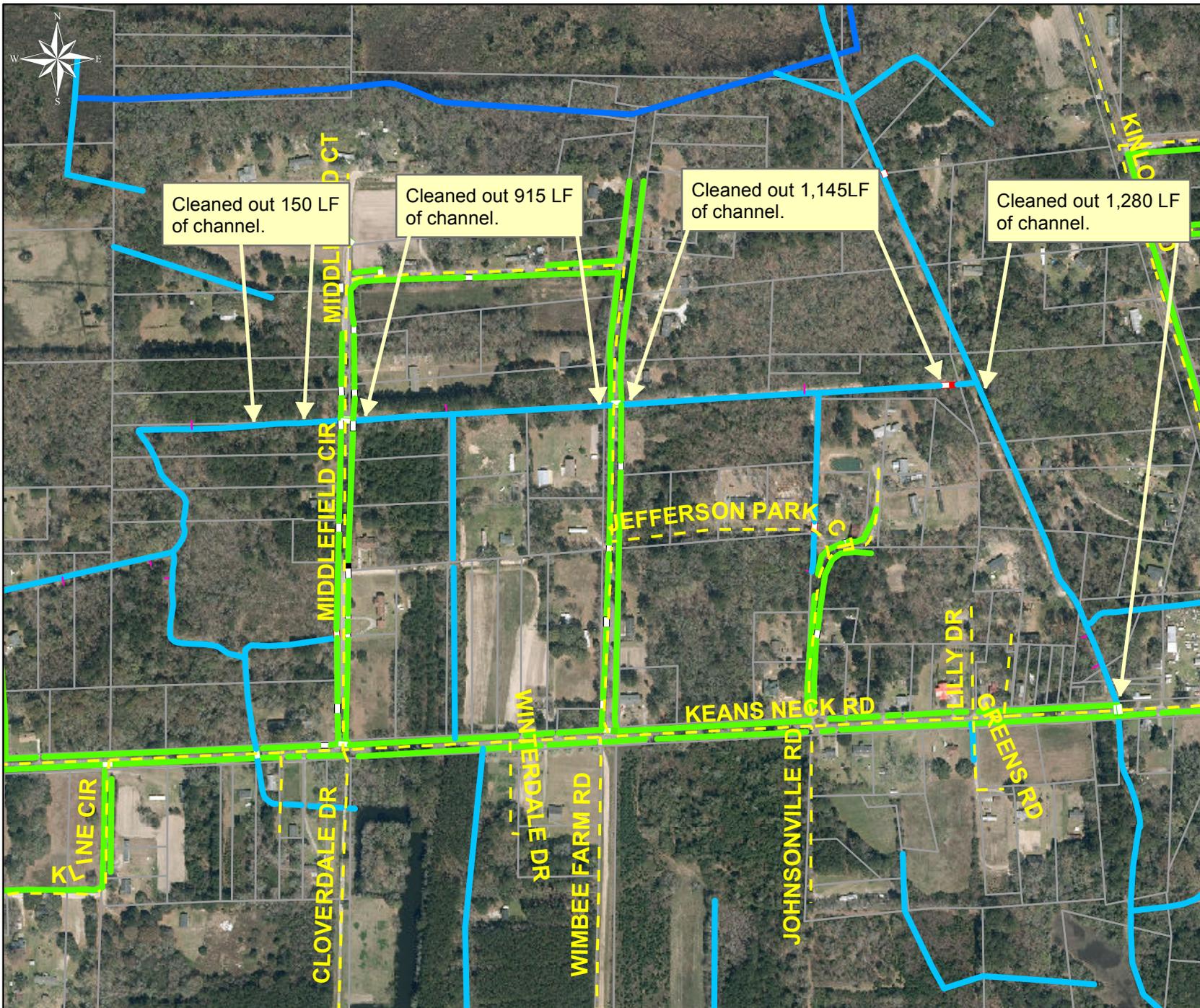


During



After





Project: Middlefield Circle

Activity: Routine/ Preventive Maintenance

Project #: 2015-573

Township: Sheldon

Completed: February 2015

**Legend**

**Drainage Type**

- River
- Stream
- Channel
- Lateral
- Lateral Pipe
- Roadside
- Roadside Pipe
- Road Pipe
- Crossline
- D/W
- Access
- Piped
- Bleeder



1 inch = 500 feet



BEAUFORT COUNTY  
STORMWATER MANAGEMENT UTILITY BOARD  
AGENDA

Wednesday, April 29, 2015  
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 18, 2015 ([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
  - A. Special Presentation – Preliminary Rate Study Results – Eric Larson P.E. ([backup](#))
  - B. Utility Update – Eric Larson, P.E. ([backup](#))
  - C. MS4 Update - Eric Larson, P.E. ([backup](#))
  - D. Monitoring Update – Eric Larson, P.E. ([backup](#))
  - E. Stormwater Implementation Committee Report – Eric Larson, P.E. ([backup](#))
  - F. Stormwater Related Projects – Eric Larson, P.E. ([backup](#))
  - G. Upcoming Professional Contracts Report – Eric Larson, P.E. ([backup](#))
  - H. Regional Coordination – Eric Larson, P.E. ([backup](#))
  - I. Financial Report ([backup](#))
  - J. Maintenance Projects Report – Eddie Bellamy ([backup](#))
5. UNFINISHED BUSINESS
6. NEW BUSINESS
  - A. Fiscal Year 2016 Proposed Budget – Carolyn Wallace ([backup](#))
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
  - A. May 20, 2015 ([backup](#))
9. ADJOURNMENT





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



April 29, 2015

**Stormwater Manager's Report for the Stormwater Utility Board Meeting**

Utility Update

1. The paper presented by Larson on the CWP webinar has been accepted for the ICEA conference in Atlanta in June. It has also been accepted for the SESWA conference in Chattanooga in October.
2. The FY 16 budget will be presented to the Board at today's meeting for recommendation.
3. We have had an increased activity in stormwater plan review for private development. Last month we had 13 projects needing engineering review.
4. I am working with the Center for Watershed Protection to develop a Low Impact Development design tool customized for Beaufort County. This tool will be compatible with the new South Carolina Coastal LID Manual.

MS4 Update

1. MS4 Permit Application – There is no update from last month's report.
2. MS4 program development – Staff is considering two task orders from ATM to begin work on ordinance and technical guidance development for construction, post construction, and illicit discharge, detection, and elimination.
3. County staff visited the Charleston County stormwater department and was briefed on Charleston's field inspection and inventory program. We also discussed their MS4 implementation, seeking advice on the same.
4. The Beaufort Conservation District and the SWIC continue to work with DNR to develop a Pond Conference for the fall. A planning meeting was held this month. The goal is to educate local stormwater pond managers on proper maintenance and operations.

Monitoring Update

1. USCB Lab – DHEC has responded to the lab's certification submittals for microbiological and in-situ parameters. A site visit is needed by DHEC to finalize the certification. The lab continues to prepare a submittal for certification of nutrients and metals.
2. The lab will be assuming all field sampling / testing and lab analysis from GEL Engineering effective July 31, 2015. GEL will be notified 30 days prior to this date to effectively terminate their agreement with the County.
3. Illicit discharge activity – Staff has been following leads on complaints concerning floor wax stripper dumping into storm drains. We are taking action by educating the offenders and reporting the incident to DHEC for enforcement action.

## Stormwater Implementation Committee (SWIC) Report

1. The SWIC met on April 8th. Topics of discussion included the rate study, master plan, and current education efforts. [Minutes from the April meeting](#) are attached to this report for your information.

## Stormwater Related Projects

1. US 278 Retrofit Ponds (\$356,000 budget) – Construction is underway. The Stormwater Infrastructure crews continue to construct the site entrances at all four sites. Our contractor is still clearing on the Pickney Colony Park site. Clearing of the spoil site will begin this month. Permitting by the Town of Bluffton for the spoil site at Buckwalter Park has been received.
2. Turtle Lane Paving on Lady's Island (stormwater add-on) (\$8,940 budget) – No update to report. Design plan still pending.
3. Okatie West / SC 170 widening retrofit land purchase (land acquisition = \$160,415 budget, design and construction = \$915,000 budget) – Closing of the property still pending. Staff is preparing a Section 319 grant application for construction of the Okatie West stormwater pond. As part of the application, we are updating the Okatie Watershed management plan. The grant is a 60/40 cost share and would reduce the amount of stormwater utility funds needed to construct the project.
4. Middleton Place subdivision on Hilton Head Island – Work on the easement by the ToHHI is ongoing. The County's portion of maintenance work has not begun.
5. Staff is working with Mike Zara, a landowner in the Sheldon area, and OCRM to resolve a ditch instability problem.
6. Staff is working with representatives of the Shell Point Neighborhood Association and SCDOT to deal with drainage issues. These issues came to our attention due to the recent activity by the Town of Port Royal to annex a portion of the neighborhood.

## Professional Contracts Report

1. Utility Rate Study – Work on the study is ongoing. The Town of Bluffton is reconsidering participating in the study. We expect a draft report to be presented at the May meeting with recommendations to finalize the study and rate recommendations. The County Council took action on an urgent need to approve a task order (\$79,291) to perform an impervious area calculation on approximately 5,000 non-residential properties. The update of the data was needed to fine-tune the SFU determinations that were previously based on low resolution 2002 aerial photos and to assure any rate increase was applied properly to these properties. [An example of the quality of the old and new data is attached as an exhibit.](#)
2. Stormwater Management Plan (Master Plan) Update – The SWIC has resolved that participation by some of the municipalities would be contingent upon a re-advertising for consultant services to perform the study. Therefore, ATM has been notified that the task order proposed will not be approved. An RFQ will be prepared by staff and advertised soon. The selection committee will include the SWIC members participating in the cost share for the project.

## Regional Coordination

1. Battery Creek Pond Funded by an EPA 319 Grant (\$132,609 budget – county portion) – On going. The easement is signed and recorded. DHEC and USACE permits have been submitted and are pending. (Lamar Taylor may also report)
2. May River Watershed Action Plan – The Pine Grove volume reduction project using CWA Section 319 grant dollars is on-going. The Stoney Creek watershed plan is on-going. (Jeremy Ritchie may also report).
3. Salinity Study (\$25,000 budget – county portion) - On going. No further update is available.
4. Sea Level Rise and Future Planning – On going. No further update is available.
5. Buckingham Plantation Drive Innovation District conceptual design study (\$25,000 budget – SWU portion) – Nothing new to report.
6. Old Woodland Plantation stormsewer system repairs – (\$92,388) Work is nearly complete. Town and County staff performed a site visit and identified some additional work needed to complete the project.

April 8, 2015, 1:30pm at the BJWSA Community Room, 6 Snake Road, Okatie, SC

Invited Attendees:	Eric Larson, Bryan McIlwee, Jeremy Ritchie, Lamar Taylor, Tony Maglione (on behalf of Van Willis) , Shelby Berry, Denise Parsick, Keith Readling, Jennifer Fitts, Kevin Pitts, Patty Wilson.
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- 1) Approval of March 11th, 2015 meeting minutes - approved by common consent
- 2) Public Education
  - a. Report by BCSWCD - [See attached report.](#)
    - i. Drain Marker status - Scouts waiting on CoB for the decision on where to do the project. They are shooting for May 30th. There is a conflict with a downtown festival on May 23<sup>rd</sup>.
    - ii. ToHHI had some older metal markers in storage. They are giving them to BSWCD for use as needed.
    - iii. Pond Conference - We did not get the grant to help support the conference. Staff meeting on the planning this Friday.
    - iv. Dog Bone bag dispenser - They have been delivered and will be distributed during Earth Day.
    - v. Kiosks - The ToB, ToHHI, and CoB units will be picked up and delivered to the respective libraries. Chris Marsh has trained Scott Grooms with the County Channel to make changes to the display.
    - vi. Purchase Enviroscape Model - SWIC members agreed to purchase an additional model. It was budgeted in the Public Education budget.
  - b. NCW website update - Beth Lewis is working on the updates.
  - c. Larson introduced Patty Wilson. She will act as a coordinator on behalf of the SWIC with managing the Public Education contract.
- 3) Rate Study progress report - It was reported that the Town of Bluffton has agreed to participate in the Study. Keith Readling updated the SWIC on the project's progress.
  - a. He met with all jurisdictions.
  - b. Past and near future expenditures are being assessed.
  - c. Emerging issues to be answered are:
    - i. Needs versus rate base.
    - ii. Rate structure (should rates be raised?)
    - iii. Should lightly developed areas pay more?
    - iv. Debt finance Capital (revenue bonds for capital infrastructure)
    - v. Impervious rate dominated structure?
    - vi. Pay go versus debt.
  - d. Keith mentioned ATM's initial assessment of the various communities and their needs. He also discussed potential options for revenue that will be inputted into their models to see how best to meet the needs for each community. The base model is built, has good historical information for most jurisdictions and data will continue to be uploaded and processed. Options will likely be presented in May.
  - e. Bryan McIlwee (ToHHI) asked if ATM could also consider (in their study) the impact of the increased cost to take over a significant number of additional PUD developments.
- 4) Revisit SWU Mgt. Admin fee - Larson reminded everyone that a response to the Management fee proposal is April 15.
- 5) Management Plan Update scope of services and Budget –

- a. Scope of Services- quote - No one has had a chance to review the scope. Deferred to next month.
  - b. Cost Share-budget numbers - All but ToB indicated they had their respective percentages of a \$475,000 budget in their proposed budgets. ToB has budgeted for their allocation of a \$300,000 study, an earlier budget quote from the County.
  - c. Update plan - Larson suggested next month the group try to refine the scope and budget so that the SWIC can begin discussing procurement of the services needed.
- 6) MS4 status - ToB reported that DHEC told them there would be a public notice in May. They did not indicate if there would be any corrections needed by the applicant.
- a. Partnership on Inspection - Larson introduced the idea of delegating County's inspection needs south of the Broad River to ToB and ToHHI as part of the MS4 permit via MOUs. In turn, he suggested the County could take the lead on other aspects of the MS4 program (such as IDDE or Facility Management) via MOUs. SWIC members seemed open to the idea and agreed to meet and discuss the ideas further. Larson will set up meetings.
- 7) Other business - None offered.
- 8) Next Meeting - May 13, 2015 - 1:30pm at BJSWA Community Room

Stormwater Education Report - Beaufort Conservation District  
April 8, 2015

**1. Storm Drain Marker Project**

- ordered & expect delivery end of April, early May \$5750.00
- Presented Enviroscape to Troop 1712.

**2. Pond Conference**

- Grant was denied (just got the letter) - Planning our conference at USC-B (Bluffton Campus) Oct 22. \*Need to readjust budget accordingly.
- Meeting Friday with Blaik Keppler, ACE Basin NERR, & Eric to discuss avoiding overlap in content with Charleston Conference Spring 2016

**3. 7<sup>th</sup> Grade Enviroscape presentations**

- Presented to 24 - 7<sup>th</sup> grade classes at Bluffton Middle School this month.
- (1 presentation to Boy Scout Troop 1712.)
- Presented to 8 – 7<sup>th</sup> grade Classes at Robert Smalls International Academy.
- Presented to 4 – 5<sup>th</sup> grade classes at St. Helena Elem Career Day. Since small group, gave kids “Clean Water Team”, by Farm Bureau & “Your Hometown Clean Water Tour”, NRCS.
- Would like to purchase extra Model (\$1050 for NPS) This includes an older discounted case if ordered SOON!

**4. Kid Fest:**

- Presented booth with focus on NPS pollution with Enviroscape,
- Obtained first round of behavior surveys. Provide broad spectrum questions on pet waste, car fluids, paints & chemicals, yard waste, medications, & yard chemicals based on Greenville County surveys. See attached.

**5. Spring Festivals:** Began planning for Earth Day & Litter Sweeps –

- Rain Barrel Decorating Contest: 33 entries & will be displayed at the 2 Earth Days
- Earth Day Port Royal Farmer’s Market – April 18, 9 – noon Focus NPS pollution with Enviroscape, Pet waste dispensers & rain barrel decorating contest (mostly schools NOB).
- **Dog bones**- we agreed on blue & they sent white. Decided to keep with \$200 discount.
- Earth Day Bluffton (11-3) April 25 - Focus NPS pollution with Enviroscape, Pet waste dispensers & rain barrel decorating contest (mostly schools SOB)
- Quotes for Banner

**6. Kiosks**

- Sent pictures and measurements of Kiosks to Morris Campbell & Patty Wilson to see if space was available in the libraries. (The base is 2ft and it flares out at the top to about 33” wide and about 5 feet high. Power cord in back on bottom of unit. )
- Did not know about changing location page, but suggested asking PRSF and/or Chris Marsh.
- Was suggested that BC’s stay at Admin Bldg.

Kid Fest NPS Presentation



Pam Floyd with EnviroScape Above, Parent filling out surveys below.



Kiosk display below.



2002 Aerial  
& Parcels



2015 Aerial  
& Parcels





COUNTY COUNCIL OF BEAUFORT COUNTY  
**FINANCE DEPARTMENT**  
Post Office Drawer 1228  
Beaufort, South Carolina 29901-1228

Alicia Holland, CPA  
Chief Financial Officer  
843.255.2296  
aholland@bcgov.net

April 21, 2015

Chanel Lewis  
Controller  
843.255.2303  
clewis@bcgov.net

**March 2015 Stormwater Financials Narrative and Analysis**

Alan R. Eisenman, CPA  
Financial Supervisor  
843.255.2295  
aeisenman@bcgov.net

Since March is the 9<sup>th</sup> month of the fiscal year, one might expect expenses to be at 75% of budget based on consistent and recurring expenses and Stormwater is currently below this budget level at 62%.

Janet Andrews  
Accounting Supervisor  
843.255.2290  
jandrews@bcgov.net

The main source of revenues is from Stormwater Utility fees in property tax bills and this is about \$61,000 higher than in March 2014. It appears that more tax payments are being paid on time before the March 17<sup>th</sup> deadline as compared to this time last year.

Crystine Hendrick  
Accounts Payable  
A thru K  
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cryshe@bcgov.net

With the recent addition of the Capital Improvement Fund, some Stormwater Utility Funds have been transferred for larger retrofit projects that might take several years to fund and to finish. Therefore, the Stormwater cash balance is now comprised of two cash balances. The Stormwater cash balance has decreased by about \$191,000 compared to last year, along with a decrease in fund balance by about \$219,000. The new Capital Improvement Fund was just getting started in March 2014.

Frances Collins  
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Respectively submitted,

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102 Industrial Village Road, Building 2, Beaufort, SC 29906

*"Professionally we serve; Personally we care!"*

**UNAUDITED AND PRELIMINARY**  
**BEAUFORT COUNTY, SOUTH CAROLINA**  
**STATEMENT OF NET ASSETS**  
**Stormwater Utility and Capital Improvement Funds**  
**March 31, 2015 & March 31, 2014**

	Stormwater Utility Fund March 31, 2015	Capital Improvements Fund March 31, 2015	Stormwater Utility Fund March 31, 2014	Capital Improvements Fund March 31, 2014
<b>ASSETS</b>				
<b>Current Assets</b>				
Cash and Investments with Trustee	\$ 2,758,641	\$ 461,382	\$ 3,411,906	\$ -
Receivables, Net	57,611	-	119,984	-
Inventories	113,850	-	92,511	-
Total Current Assets	<u>2,930,102</u>	<u>461,382</u>	<u>3,645,074</u>	<u>-</u>
Capital Assets	3,140,834	-	2,863,140	-
Accumulated Depreciation	<u>(2,185,729)</u>	<u>-</u>	<u>(2,119,484)</u>	<u>-</u>
	955,105	-	743,656	-
Total Assets	<u>\$ 3,885,207</u>	<u>\$ 461,382</u>	<u>\$ 4,388,730</u>	<u>\$ -</u>
<b>LIABILITIES</b>				
<b>Liabilities</b>				
Account Payable	107,458	8,175	88,113	1,500
Accrued Payroll	67,479	-	73,402	-
Accrued Compensated Absences	7,823	-	6,247	-
Total Current Liabilities	<u>182,760</u>	<u>8,175</u>	<u>167,762</u>	<u>1,500</u>
<b>Long Term Liabilities</b>				
Accrued Compensated Absences	65,978	-	55,379	-
Net Other Postemployment Benefits Obligation	964,759	-	822,164	-
Total Long Term Liabilities	<u>1,030,737</u>	<u>-</u>	<u>877,543</u>	<u>-</u>
Total Liabilities	1,213,497	8,175	1,045,305	1,500
<b>NET ASSETS</b>				
Invested in Capital Assets, Net of Related Debt	955,105	-	743,656	-
Reserved for Encumbrances	286,197	194,558	369,276	-
Reserved for Capital Improvements	-	258,649	-	(1,500)
Unrestricted	<u>1,430,408</u>	<u>-</u>	<u>2,230,493</u>	<u>-</u>
Total Net Assets	<u>\$ 2,671,710</u>	<u>\$ 453,207</u>	<u>\$ 3,343,425</u>	<u>\$ (1,500)</u>

**Unaudited and Preliminary**  
 BEAUFORT COUNTY, SOUTH CAROLINA  
 STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS  
 Stormwater Utility Fund  
 For the Period Ended March 31, 2015

	Budget FY 2015	March 31, 2015	Budget to Actual	Percent of Budget
Operating Revenues				
Stormwater Utility Fees	\$ 3,132,205	\$ 2,948,000	(184,205)	94%
Stormwater Utility Project Billings	44,189	53,561	9,372	121%
Total Operating Revenues	<u>3,176,394</u>	<u>3,001,561</u>	<u>(174,833)</u>	<u>94%</u>
Operating Expenses				
Personnel	2,261,074	1,482,450	(778,624)	66%
Purchased Services	684,864	364,984	(319,880)	53%
Supplies	362,409	186,388	(176,021)	51%
Depreciation	182,523	136,899	(45,624)	75%
Total Operating Expenses	<u>3,490,870</u>	<u>2,170,721</u>	<u>(1,320,149)</u>	<u>62%</u>
Operating Income (Loss)	(314,476)	830,840	1,145,316	-264%
Non-Operating Revenues (Expenses)				
Interest Earned	2,955	-	(2,955)	0%
Total Non-Operating Revenues (Expenses)	<u>2,955</u>	<u>-</u>	<u>(2,955)</u>	<u>0%</u>
Transfers Out To Capital Improvement Fund	-	12,365	12,365	100%
Change in Net Assets	(311,521)	818,475	1,129,996	-263%
Net Assets, Beginning	<u>1,853,235</u>	<u>1,853,235</u>		
Net Assets, Ending	<u>\$ 1,541,714</u>	<u>\$ 2,671,710</u>	1,129,996	173%

**Unaudited and Preliminary**  
**BEAUFORT COUNTY, SOUTH CAROLINA**  
**STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS**  
**Stormwater Capital Improvements Fund**  
**For the Period Ended March 31, 2015**

	Budget FY 2015	March 31, 2015	Budget to Actual	Percent of Budget
<b>Transfers In from Stormwater Utility Fund</b>				
Administration Complex Parking Lot Retrofit	\$ -	\$ -	-	0%
Okatie East Retrofit	-	-	-	0%
Highway 278 Retrofit	-	-	-	0%
Okatie West Retrofit	-	-	-	0%
Buckingham Plantation Retrofit	-	12,365	12,365	100%
Upper Battery Creek Retrofit	-	-	-	0%
<b>Total Transfers In</b>	<u>-</u>	<u>12,365</u>	<u>12,365</u>	<u>0%</u>
<b>Capital Improvement Expenses</b>				
Administration Complex Parking Lot Retrofit	-	302,250	302,250	100%
Okatie East Retrofit	-	5,337	5,337	100%
Highway 278 Retrofit	-	22,732	22,732	100%
Okatie West Retrofit	-	20,000	20,000	100%
Buckingham Plantation Retrofit	-	9,865	9,865	0%
Upper Battery Creek Retrofit	-	7,367	7,367	100%
<b>Total Operating Expenses</b>	<u>-</u>	<u>367,551</u>	<u>367,551</u>	<u>100%</u>
<b>Change in Net Assets by Project</b>				
Administration Complex Parking Lot Retrofit		(302,250)	(302,250)	
Okatie East Retrofit		(5,337)	(5,337)	
Highway 278 Retrofit		(22,732)	(22,732)	
Okatie West Retrofit		(20,000)	(20,000)	
Buckingham Plantation Retrofit		2,500	2,500	
Upper Battery Creek Retrofit		(7,367)	(7,367)	
<b>Total Change in Net Assets by Project</b>		<u>(355,186)</u>	<u>(355,186)</u>	
<b>Net Assets, Beginning</b>				
Administration Complex Parking Lot Retrofit		327,169		
Okatie East Retrofit		40,892		
Highway 278 Retrofit		207,722		
Okatie West Retrofit		100,000		
Buckingham Plantation Retrofit		-		
Upper Battery Creek Retrofit		132,610		
<b>Total Net Assets, Beginning</b>		<u>808,393</u>		
<b>Net Assets, Ending</b>				
Administration Complex Parking Lot Retrofit		24,919		
Okatie East Retrofit		35,555		
Highway 278 Retrofit		184,990		
Okatie West Retrofit		80,000		
Buckingham Plantation Retrofit		2,500		
Upper Battery Creek Retrofit		125,243		
<b>Total Net Assets, Ending</b>	<u>\$ -</u>	<u>\$ 453,207</u>		

**Unaudited and Preliminary**  
**BEAUFORT COUNTY, SOUTH CAROLINA**  
**STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS**  
**Stormwater Utility Fund**  
**For the Period Ended March 31, 2014**

	Budget FY 2014	March 31, 2014	Budget to Actual	Percent of Budget
Operating Revenues				
Stormwater Utility Fees	\$ 3,475,000	\$ 2,886,445	(588,555)	83%
Stormwater Utility Project Billings	60,023	110,272	50,249	184%
Total Operating Revenues	<u>3,535,023</u>	<u>2,996,717</u>	<u>(538,306)</u>	85%
Operating Expenses				
Personnel	2,160,475	1,416,611	(743,864)	66%
Purchased Services	961,864	413,147	(548,717)	43%
Supplies	381,446	252,706	(128,740)	66%
Depreciation	242,119	182,115	(60,004)	75%
Total Operating Expenses	<u>3,745,904</u>	<u>2,264,579</u>	<u>(1,481,325)</u>	60%
Operating Income (Loss)	(210,881)	732,138	943,019	-347%
Non-Operating Revenues (Expenses)				
Gain (Loss) on Sale of Capital Assets	-	(31,374)	(31,374)	-100%
Interest Earned	6,922	-	(6,922)	0%
Total Non-Operating Revenues (Expenses)	<u>6,922</u>	<u>(31,374)</u>	<u>(38,296)</u>	0%
Change in Net Assets	(203,959)	700,764	904,723	-344%
Net Assets, Beginning	<u>2,642,661</u>	<u>2,642,661</u>		
Net Assets, Ending	<u>\$ 2,438,702</u>	<u>\$ 3,343,425</u>	904,723	137%

**Unaudited and Preliminary**  
**BEAUFORT COUNTY, SOUTH CAROLINA**  
**STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS**  
**Stormwater Capital Improvements Fund**  
**For the Period Ended March 31, 2014**

	Budget FY 2014	March 31, 2014	Budget to Actual	Percent of Budget
<b>Transfers In from Stormwater Utility Fund</b>				
Administration Complex Parking Lot Retrofit	\$ -	\$ -	-	0%
Okatie East Retrofit	-	-	-	0%
Highway 278 Retrofit	-	-	-	0%
Okatie West Retrofit	-	-	-	0%
Buckingham Plantation Retrofit	-	-	-	0%
Upper Battery Creek Retrofit	-	-	-	0%
<b>Total Transfers In</b>	<u>-</u>	<u>-</u>	<u>-</u>	<u>0%</u>
<b>Capital Improvement Expenses</b>				
Administration Complex Parking Lot Retrofit	-	1,500	1,500	100%
Okatie East Retrofit	-	-	-	0%
Highway 278 Retrofit	-	-	-	0%
Okatie West Retrofit	-	-	-	0%
Buckingham Plantation Retrofit	-	-	-	0%
Upper Battery Creek Retrofit	-	-	-	0%
<b>Total Operating Expenses</b>	<u>-</u>	<u>1,500</u>	<u>1,500</u>	<u>100%</u>
<b>Change in Net Assets by Project</b>				
Administration Complex Parking Lot Retrofit		(1,500)	(1,500)	
Okatie East Retrofit		-	-	
Highway 278 Retrofit		-	-	
Okatie West Retrofit		-	-	
Buckingham Plantation Retrofit		-	-	
Upper Battery Creek Retrofit		-	-	
<b>Total Change in Net Assets by Project</b>		<u>(1,500)</u>	<u>(1,500)</u>	
<b>Net Assets, Beginning</b>				
Administration Complex Parking Lot Retrofit		-		
Okatie East Retrofit		-		
Highway 278 Retrofit		-		
Okatie West Retrofit		-		
Buckingham Plantation Retrofit		-		
Upper Battery Creek Retrofit		-		
<b>Total Net Assets, Beginning</b>		<u>-</u>		
<b>Net Assets, Ending</b>				
Administration Complex Parking Lot Retrofit		(1,500)		
Okatie East Retrofit		-		
Highway 278 Retrofit		-		
Okatie West Retrofit		-		
Buckingham Plantation Retrofit		-		
Upper Battery Creek Retrofit		-		
<b>Total Net Assets, Ending</b>	<u>\$ -</u>	<u>\$ (1,500)</u>		



## MEMORANDUM

Date: April 29, 2015

To: Stormwater Management Utility Board

From: Eddie Bellamy, Public Works Director

Re: **Maintenance Project Report for April 2015**

1. This report will cover three major and 7 minor or routine projects. The Project Summary Reports are attached.

2. Major Projects:

- A. **Dolphin Point Drive**, completed in February on Cat Island in District 7; we cleaned out 1,179 feet of roadside ditch, jetted seven driveway pipes, and hydroseeded for erosion control. Total cost of the project was **\$17,401**.
- B. **Wimbee Landing Road**, completed in March in the Dale area of District 5; we Shinn cut, grubbed, and reconstructed 1,370 feet of channel in preparation for road paving. We also cleaned out an addition 600 feet of channel, jetted out one crossline pipe, and hydroseeded for erosion control. Total cost of the project was **\$63,567**.
- C. **Old Woodland Plantation**, completed in March in the Town Of Hilton Head Island, District 3; we cleaned out one catch basin and 2,534 feet of roadside ditch, replaced 80 feet of roadside pipe and one driveway pipe to correct elevation, repaired numerous washouts, and jetted one access pipe, two crossline pipes, and 52 driveway pipes. We also installed sod or straw mat and hydroseeded for erosion control. Total Cost of the project was **\$92,388**.

3. Minor or Routine Projects:

- A. **Booker T. Washington Circle Channel #1**, completed in January in the Big Estate area of District 5; we installed four bleeder pipes.
- B. **Bluffton Middle School Ph I**, completed in March in District 4 as a reimbursement from the school district; we bush hogged and cleaned out 600 feet of channel.
- C. **Mitchell Road Channels #1 & #3**, completed in March in the Sheldon area of District 5; we cleaned out 214 feet of channel, jetted one crossline pipe, and removed blockage from the flowline.
- D. **Old Dawson Acres**, completed in March in the Dale area of District 5, we reset a catch basin lid.

- E. **Warsaw Island Road**, completed in April in District 8; we cleaned out 80 feet of roadside ditch, replaced one driveway pipe, and installed rip-rap and hand seeded for erosion control.
- F. **Pinewood Circle Channel # 2**, completed in April in District 6; we cleaned out 440 feet of channel.
- G. **Pinewood Circle**, completed in April in District 6; we repaired a catch basin and separated joint and installed rip-rap and hydroseeded for erosion control.



# Beaufort County Public Works Stormwater Infrastructure Project Summary

**Project Summary:** Dolphin Point Drive

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Project improved 1,179 L.F. of drainage system. Cleaned out 1,179 L.F. of roadside ditch. Jetted (7) driveway pipes. Hydroseeded for erosion control.

**Completion:** Feb-15

2015-569 / Dolphin Point 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
DPJT / Driveway Pipe - Jetted	30.0	\$670.14	\$368.10	\$138.86	\$0.00	\$448.65	\$1,625.75
HAUL / Hauling	82.5	\$1,770.38	\$722.41	\$240.40	\$0.00	\$1,175.91	\$3,909.09
ONJV / Onsite Job Visit	46.0	\$1,519.60	\$159.28	\$65.86	\$0.00	\$1,113.14	\$2,857.88
RSDCL / Roadside Ditch - Cleanout	238.0	\$4,870.64	\$711.91	\$230.15	\$0.00	\$3,161.58	\$8,974.28
UTLOC / Utility locates	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
<b>2015-569 / Dolphin Point Drive Sub Total</b>	<b>397.5</b>	<b>\$8,851.22</b>	<b>\$1,961.70</b>	<b>\$675.26</b>	<b>\$0.00</b>	<b>\$5,912.51</b>	<b>\$17,400.69</b>
<b>Grand Total</b>	<b>397.5</b>	<b>\$8,851.22</b>	<b>\$1,961.70</b>	<b>\$675.26</b>	<b>\$0.00</b>	<b>\$5,912.51</b>	<b>\$17,400.69</b>

Before



During



After



Project: Dolphin Point Drive Map 1

Activity: Routine/ Preventive Maintenance

Project #: 2015-569

Township: Lady's Island

Completed: February 2015



### Legend

#### Drainage Type

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

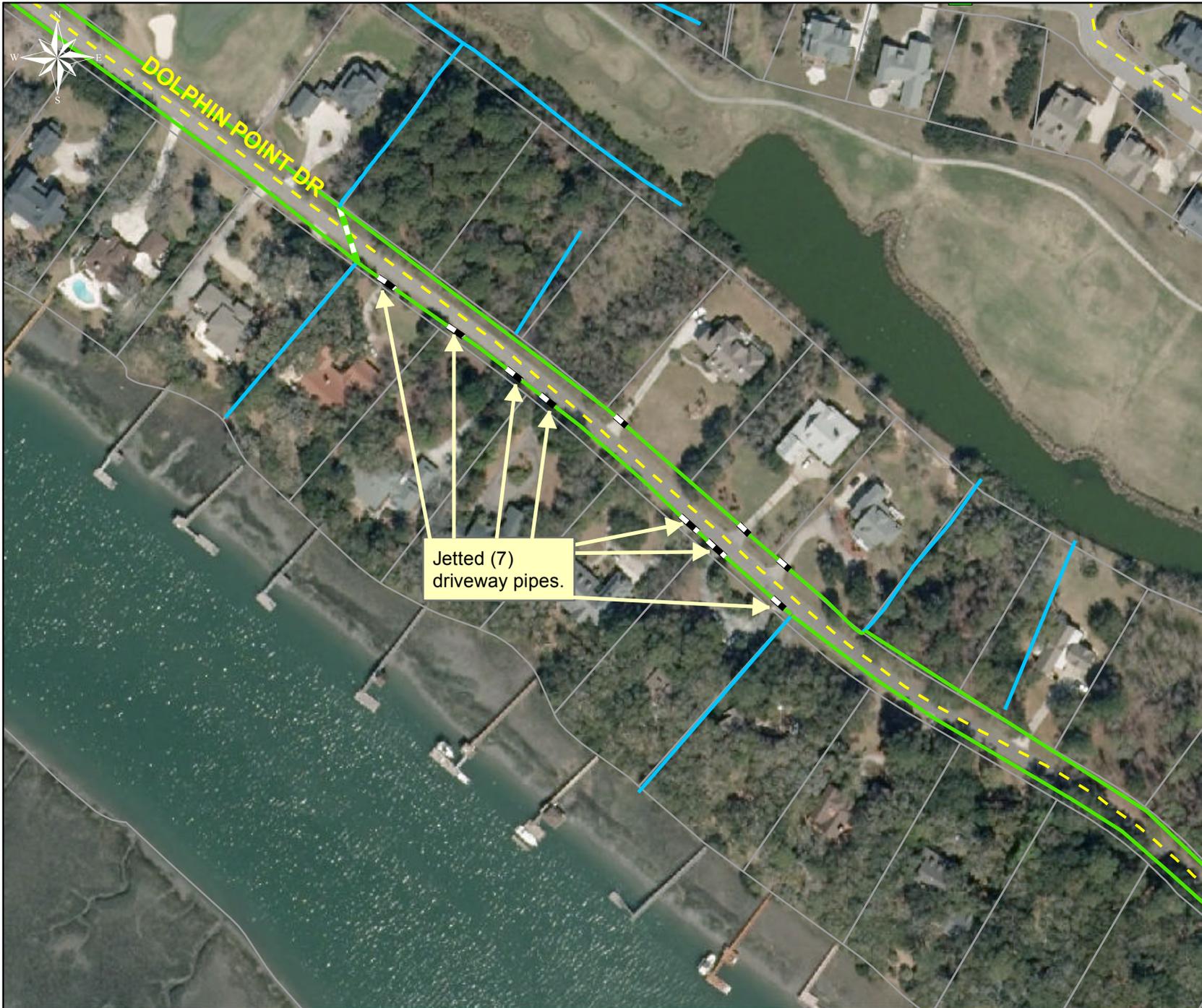
0 40 80 160 240 320  
Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 02/05/2015

File: C:\project summaries map\Dolphin Point Drive Map1\_2015-569



Project: Dolphin Point Drive  
Map 2

Activity: Vacuum Truck

Project #: 2015-569

Township: Lady's Island

Completed: February 2015

**Legend**

**Drainage Type**

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

0 40 80 160 240 320  
Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 02/05/2015

File: C:\project summaries map\Dolphin Point Drive Map2\_2015-569



# Beaufort County Public Works Stormwater Infrastructure Project Summary

**Project Summary:** Wimbee Landing Road

**Activity:** Drainage Improvement

**Narrative Description of Project:**

Project improved 1,970 L.F. of drainage system. Shinn cut, grubbed and constructed 1,370 L.F. of channel realignment. Cleaned out 600 L.F. of channel. Jetted (1) crossline pipe. Hydroseeded for erosion control.

**Completion:** Mar-15

2015-008 / Wimbee Landing Road	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
BKFILL / Back Fill	10.0	\$235.20	\$139.90	\$8.60	\$0.00	\$159.75	\$543.45
CCON / Channel - constructed	30.0	\$663.20	\$274.76	\$41.93	\$0.00	\$441.60	\$1,421.49
CREC / Channel - reconstructed	168.0	\$3,711.03	\$1,378.31	\$219.30	\$0.00	\$2,264.53	\$7,573.17
DEBREM / Debris Removal - Jobsite	25.0	\$511.40	\$84.62	\$20.02	\$0.00	\$331.65	\$947.69
HAUL / Hauling	302.5	\$6,626.98	\$5,155.87	\$3,211.35	\$0.00	\$4,434.44	\$19,428.63
HYDR / Hydroseeding	52.0	\$1,104.72	\$91.07	\$229.09	\$0.00	\$714.60	\$2,139.48
LM / Loading Materials	80.0	\$1,806.00	\$1,283.20	\$204.92	\$0.00	\$968.40	\$4,262.52
ONJV / Onsite Job Visit	105.0	\$3,628.51	\$396.52	\$137.06	\$0.00	\$2,469.56	\$6,631.65
PI / Project Inspection	4.0	\$177.08	\$14.48	\$5.34	\$0.00	\$135.84	\$332.74
PL / Project Layout	4.0	\$177.08	\$14.48	\$7.12	\$0.00	\$135.84	\$334.52
PRRECON / Project Reconnaissance	2.0	\$59.68	\$7.24	\$3.56	\$0.00	\$36.46	\$106.94
RDCON / Roadside ditch - constructed	40.0	\$879.50	\$719.51	\$118.25	\$0.00	\$585.80	\$2,303.06
RDREC / Roadside ditch - reconstructed	135.0	\$2,946.60	\$1,140.07	\$188.13	\$0.00	\$1,650.85	\$5,925.64
RSDCL / Roadside Ditch - Cleanout	7.0	\$151.41	\$24.78	\$17.20	\$0.00	\$100.94	\$294.33
RSPJ / Roadside Pipe - Jetted	14.0	\$312.73	\$146.44	\$51.55	\$0.00	\$209.37	\$720.09
STAGING / Staging Materials	55.0	\$1,265.25	\$650.47	\$152.65	\$0.00	\$855.30	\$2,923.67
STBY / Stand By	3.0	\$64.89	\$32.10	\$17.20	\$0.00	\$43.26	\$157.45
WSSON / Workshelf - Constructed	70.0	\$1,601.50	\$766.45	\$255.64	\$0.00	\$1,080.20	\$3,703.79
WSSON / Workshelf - Grubbed	20.0	\$409.10	\$67.99	\$14.59	\$0.00	\$265.50	\$757.18
WSL / Workshelf - Level	40.0	\$856.00	\$478.60	\$53.75	\$0.00	\$441.60	\$1,829.95
WSSHN / Workshelf - Shinn cut	20.0	\$470.40	\$290.54	\$81.70	\$0.00	\$319.50	\$1,162.14
<b>2015-008 / Wimbee Landing Road</b>	<b>1,188.5</b>	<b>\$27,699.18</b>	<b>\$13,157.40</b>	<b>\$5,038.93</b>	<b>\$0.00</b>	<b>\$17,671.44</b>	<b>\$63,566.95</b>
<b>Sub Total</b>							
<b>Grand Total</b>	<b>1,188.5</b>	<b>\$27,699.18</b>	<b>\$13,157.40</b>	<b>\$5,038.93</b>	<b>\$0.00</b>	<b>\$17,671.44</b>	<b>\$63,566.95</b>

Before



During



After





Project: Wimbee Landing Road

Activity: Drainage Improvement

Project #: 2015-008

Township: Sheldon

Completed: March 2015

**Legend**

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



1 inch = 210 feet

Prepared By: BC Stormwater Management Utility

Date Print: 03/09/2015

File: C:\project summaries map\Wimbee Landing Road\_2015-008



# Beaufort County Public Works Stormwater Infrastructure Project Summary

**Project Summary:** Old Woodland Plantation

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Project improved 2,614 L.F. of drainage system. Cleaned out (1) catch basin and 2,534 L.F. of roadside ditch. Replaced 80 L.F. of roadside pipe and replaced (1) driveway pipe to correct elevation. Repaired washouts. Jetted (1) access pipe, (2) crossline pipes and (52) driveway pipes. Installed strawmat, sod and hydroseeded for erosion control.

**Completion:** Mar-15

2015-559 / Old Woodland Plantation	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
BKFILL / Back Fill	110.0	\$2,308.80	\$357.67	\$87.31	\$0.00	\$1,513.30	\$4,267.08
CLJS / Cleaned up jobsite	28.0	\$549.28	\$94.32	\$36.55	\$0.00	\$227.94	\$908.09
CLPJT / Crossline Pipe - Jetted	14.0	\$312.76	\$146.44	\$46.55	\$0.00	\$209.37	\$715.12
DPJT / Driveway Pipe - Jetted	221.0	\$4,960.52	\$2,368.40	\$859.69	\$0.00	\$3,297.48	\$11,486.08
DPRPL / Driveway Pipe - Replaced	140.0	\$3,019.00	\$360.43	\$649.24	\$0.00	\$2,060.40	\$6,089.07
HAUL / Hauling	331.5	\$7,145.02	\$3,282.22	\$2,095.84	\$0.00	\$4,756.02	\$17,279.09
HYDR / Hydroseeding	90.0	\$1,951.80	\$133.48	\$297.56	\$0.00	\$1,263.50	\$3,646.34
LM / Loading Materials	10.0	\$198.70	\$40.10	\$27.95	\$0.00	\$127.20	\$393.95
LP / Locate Pipe	40.0	\$865.20	\$36.20	\$23.44	\$0.00	\$573.50	\$1,498.34
ONJV / Onsite Job Visit	135.0	\$4,394.47	\$487.58	\$254.54	\$0.00	\$3,088.82	\$8,225.41
PL / Project Layout	11.0	\$486.97	\$39.82	\$12.46	\$0.00	\$373.56	\$912.81
PP / Project Preparation	26.3	\$595.86	\$57.40	\$27.52	\$0.00	\$370.95	\$1,051.73
PROFS / Professional Services	0.0	\$0.00	\$0.00	\$0.00	\$837.68	\$0.00	\$837.68
PRRECON / Project Reconnaissance	20.0	\$423.20	\$14.48	\$17.80	\$0.00	\$278.24	\$733.72
RB / Remove blockage from flowline	20.0	\$445.70	\$48.51	\$15.05	\$0.00	\$282.90	\$792.16
RDREC / Roadside ditch - reconstructed	128.0	\$2,832.64	\$321.47	\$84.50	\$0.00	\$1,798.44	\$5,037.05
RPWO / Repaired Washout	90.0	\$1,937.60	\$199.03	\$287.82	\$0.00	\$1,251.20	\$3,675.65
RSDCL / Roadside Ditch - Cleanout	446.5	\$9,783.11	\$1,754.79	\$373.32	\$0.00	\$6,520.82	\$18,432.04
SI / Sod - Installation	68.0	\$1,510.48	\$99.04	\$658.50	\$0.00	\$960.30	\$3,228.32
STAGING / Staging Materials	20.0	\$457.40	\$18.10	\$12.90	\$0.00	\$308.25	\$796.65
STBY / Stand By	42.0	\$901.92	\$118.51	\$67.26	\$0.00	\$597.39	\$1,685.08
UB / Underbrush	12.0	\$267.42	\$10.86	\$6.08	\$0.00	\$169.74	\$454.10
UC / Utility Coordination	3.5	\$71.61	\$14.07	\$8.90	\$0.00	\$46.31	\$140.89
UTLOC / Utility locates	1.0	\$20.46	\$0.00	\$0.00	\$0.00	\$13.23	\$33.69
<b>2015-559 / Old Woodland Plantation Sub Total</b>	<b>2,009.8</b>	<b>\$45,480.84</b>	<b>\$10,002.91</b>	<b>\$5,950.78</b>	<b>\$837.68</b>	<b>\$30,115.32</b>	<b>\$92,387.52</b>
<b>Grand Total</b>	<b>2,009.8</b>	<b>\$45,480.84</b>	<b>\$10,002.91</b>	<b>\$5,950.78</b>	<b>\$837.68</b>	<b>\$30,115.32</b>	<b>\$92,387.52</b>

Before



During



After





Project: Old Woodland Plantation Map #1

Activity: Routine/ Preventive Maintenance

Project #: 2015-559

Township: Hilton Head

Completed: March 2015

**Legend**

**Drainage Type**

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

Cleaned out 423 LF of roadside dich.

Cleaned out 459 LF of roadside dich.

Installed straw mat, sod and hydroseeded for erosion control.

Cleaned out 573 LF of roadside dich.

Replaced (1) driveway pipe.

Repaired washout.



1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print:03/18/2015

File:C:\project summaries map/Old Woodland Palntation Map #1\_2015-559



Project: Old Woodland Plantation Map #2

Activity: Routine/ Preventive Maintenance

Project #: 2015-559

Township: Hilton Head

Completed: March 2015

**Legend**

**Drainage Type**

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

Repaired washouts.



1 inch = 170 feet

Prepared By: BC Stormwater Management Utility  
 Date Print: 03/18/2015  
 File: C:\project summaries map\Old Woodland Palntation Map #2\_ 2015-559



Project: Old Woodland Plantation Map #3

Activity: Vacuum Truck

Project #: 2015-559

Township: Hilton Head

Completed: March 2015

**Legend**

**Drainage Type**

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



1 inch = 210 feet

Prepared By: BC Stormwater Management Utility

Date Print: 03/18/2015

File: C:\project summaries map\Old Woodland Palntation Map #3\_2015-559



**Beaufort County**  
**Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** Booker T. Washington Circle Channel #1

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Installed (4) bleeder pipes.

**Completion:** Jan-15

<b>2011-030A / Booker T. Washington Circle Ch #1</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
BPINST / Bleeder pipe - Installed	28.0	\$640.36	\$91.86	\$832.20	\$0.00	\$431.55	\$1,995.97
HAUL / Hauling	6.0	\$129.78	\$64.20	\$27.95	\$0.00	\$86.52	\$308.45
<b>2011-030A / Booker T. Washington Circle Ch #1</b>	<b>34.5</b>	<b>\$780.37</b>	<b>\$156.06</b>	<b>\$860.15</b>	<b>\$0.00</b>	<b>\$524.69</b>	<b>\$2,321.26</b>
<b>Sub Total</b>							
<b>Grand Total</b>	<b>34.5</b>	<b>\$780.37</b>	<b>\$156.06</b>	<b>\$860.15</b>	<b>\$0.00</b>	<b>\$524.69</b>	<b>\$2,321.26</b>

Before



During



After





Project: Booker T. Washington Circle Channel #1

Activity: Routine/ Preventive Maintenance

Project #: 2011-030A

Township: Sheldon

Completed: January 2015

**Legend**

- Drainage Type**
- River
  - Stream
  - Channel
  - Lateral
  - - - Lateral Pipe
  - Roadside
  - - - Roadside Pipe
  - - - Road Pipe
  - - - Crossline
  - - - D/W
  - - - Access
  - - - Piped
  - Bleeder

0 65 130 260 390 520 Feet

1 inch = 280 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/07/2015

File: C:\project summaries map\Booker T. Washington Circle Channel #\_2011-030A



**Beaufort County**  
**Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** Bluffton Middle School Phase I (Reimbursement)

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Project improved 600 L.F. of drainage system. Bush hogged and cleaned out 600 L.F. of channel.

**Completion:** Mar-15

<b>2015-016 / Bluffton Middle School Ph I</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	1.0	\$20.46	\$0.00	\$0.00	\$0.00	\$13.23	\$33.69
CBH / Channel- bushhogged	8.0	\$164.99	\$104.12	\$16.09	\$0.00	\$0.00	\$285.20
CCO / Channel - cleaned out	63.0	\$1,398.34	\$419.92	\$170.20	\$0.00	\$883.20	\$2,871.66
EDO / Equipment Drop Off	4.0	\$82.50	\$7.24	\$3.56	\$0.00	\$0.00	\$93.30
ESTP / Estimating Project	1.0	\$44.27	\$0.00	\$0.00	\$0.00	\$33.96	\$78.23
HAUL / Hauling	8.0	\$173.04	\$63.92	\$21.50	\$0.00	\$115.36	\$373.82
ONJV / Onsite Job Visit	6.5	\$198.34	\$23.30	\$12.46	\$0.00	\$120.28	\$354.37
PP / Project Preparation	2.0	\$88.54	\$7.24	\$3.56	\$0.00	\$67.92	\$167.26
PRRECON / Project Reconnaissance	2.0	\$59.68	\$7.08	\$3.56	\$0.00	\$36.46	\$106.78
<b>2015-016 / Bluffton Middle School Ph I Sub Total</b>	<b>95.5</b>	<b>\$2,230.15</b>	<b>\$632.82</b>	<b>\$230.93</b>	<b>\$0.00</b>	<b>\$1,270.41</b>	<b>\$4,364.31</b>
<b>Grand Total</b>	<b>95.5</b>	<b>\$2,230.15</b>	<b>\$632.82</b>	<b>\$230.93</b>	<b>\$0.00</b>	<b>\$1,270.41</b>	<b>\$4,364.31</b>

Before



During



After



**Project: Bluffton Middle School Phase I (Reimbursement)**

**Activity: Bush Hog**

**Project #: 2015-016**

**Township: Town of Bluffton**

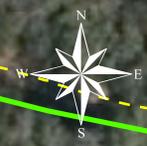
**Completed: March 2015**

Bush hogged and cleaned out 600 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



1 inch = 104 feet



**Beaufort County**  
**Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** Mitchell Road Channels #1 & #3

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Project improved 214 L.F. of drainage system. Removed blockage from flowline. Cleaned out 214 L.F. of channel. Jetted (1) crossline pipe.

**Completion:** Mar-15

<b>2015-593 / Mitchell Road Channels #1 &amp; #3</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
CCO / Channel - cleaned out	20.0	\$415.00	\$78.52	\$14.83	\$0.00	\$270.60	\$778.95
CLPJT / Crossline Pipe - Jetted	10.0	\$223.40	\$104.60	\$36.07	\$0.00	\$149.55	\$513.62
HAUL / Hauling	5.0	\$108.15	\$39.95	\$17.20	\$0.00	\$72.10	\$237.40
ONJV / Onsite Job Visit	5.0	\$165.90	\$18.10	\$7.12	\$0.00	\$122.35	\$313.47
<b>2015-593 / Mitchell Road Channels #1 &amp; #3 Sub Total</b>	<b>40.5</b>	<b>\$922.68</b>	<b>\$241.17</b>	<b>\$75.22</b>	<b>\$0.00</b>	<b>\$621.21</b>	<b>\$1,860.28</b>
<b>Grand Total</b>	<b>40.5</b>	<b>\$922.68</b>	<b>\$241.17</b>	<b>\$75.22</b>	<b>\$0.00</b>	<b>\$621.21</b>	<b>\$1,860.28</b>

Before



During



After





Project: Mitchell Road Channel #1&3

Activity: Routine/ Preventive Maintenance

Project #: 2015-593

Township: Sheldon

Completed: March 2015

Legend	
Drainage Type	
	River
	Stream
	Channel
	Lateral
	Lateral Pipe
	Roadside
	Roadside Pipe
	Road Pipe
	Crossline
	D/W
	Access
	Piped
	Bleeder



1 inch = 250 feet



**Beaufort County**  
**Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** Old Dawson Acres

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

**Completion:** Mar-15

Reset (1) catch basin lid.

<b>2015-603 / Old Dawson Acres</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
CBLRE / Catch Basin Lid - Reset	4.0	\$83.00	\$3.54	\$4.30	\$0.00	\$57.18	\$148.02
<b>2015-603 / Old Dawson Acres Sub Total</b>	<b>4.5</b>	<b>\$93.23</b>	<b>\$3.54</b>	<b>\$4.30</b>	<b>\$0.00</b>	<b>\$63.80</b>	<b>\$164.87</b>
<b>Grand Total</b>	<b>4.5</b>	<b>\$93.23</b>	<b>\$3.54</b>	<b>\$4.30</b>	<b>\$0.00</b>	<b>\$63.80</b>	<b>\$164.87</b>

(Pictures Not Available)



Project: Old Dawson Acres

Activity: Routine/  
Preventive  
Maintenance

Project #:  
2015-603

Township:  
Sheldon

Completed:  
March 2015

**Legend**

**Drainage Type**

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

0 25 50 100 150 200  
Feet

1 inch = 120 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 03/23/2015  
File: C:\project summaries map\Old Dawson Acres\_2015-603



**Beaufort County**  
**Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** Warsaw Island Road

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Project improved 80 L.F. of drainage system. Cleaned out 80 L.F. of roadside ditch. Replaced (1) driveway pipe. Installed rip rap and handseeded for erosion control.

**Completion:** Apr-15

<b>2015-570 / Warsaw Island Road</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
DPRPL / Driveway Pipe - Replaced	60.0	\$1,262.60	\$199.55	\$307.75	\$0.00	\$838.10	\$2,608.00
HAUL / Hauling	29.5	\$638.09	\$315.65	\$1,087.17	\$0.00	\$425.39	\$2,466.30
ONJV / Onsite Job Visit	12.0	\$391.48	\$43.44	\$31.68	\$0.00	\$281.16	\$747.76
PROFS / Professional Services	0.0	\$0.00	\$0.00	\$0.00	\$450.00	\$0.00	\$450.00
RRI / Rip Rap - Installed	30.0	\$634.80	\$88.24	\$92.89	\$0.00	\$423.48	\$1,239.41
STBY / Stand By	2.0	\$43.26	\$21.40	\$28.93	\$0.00	\$28.84	\$122.43
UTLOC / Utility locates	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
<b>2015-570 / Warsaw Island Road Sub Total</b>	<b>134.5</b>	<b>\$2,990.69</b>	<b>\$668.28</b>	<b>\$1,548.42</b>	<b>\$450.00</b>	<b>\$2,010.20</b>	<b>\$7,667.58</b>
<b>Grand Total</b>	<b>134.5</b>	<b>\$2,990.69</b>	<b>\$668.28</b>	<b>\$1,548.42</b>	<b>\$450.00</b>	<b>\$2,010.20</b>	<b>\$7,667.58</b>

After





Project: Warsaw Island Road

Activity: Routine/ Preventive Maintenance

Project #: 2015-570

Township: St. Helena Island

Completed: April 2015

**Legend**

**Drainage Type**

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

0 25 50 100 150 200 Feet

1 inch = 120 feet

Prepared By: BC Stormwater Management Utility

Date Print: 04/06/2015

File: C:\project summaries map\Warsaw Island Road\_2015-570



**Beaufort County**  
**Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

**Project Summary:** Pinewood Circle Channel #2

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Project improved 440 L.F. of drainage system. Cleaned out 440 L.F. of channel.

**Completion:** Apr-15

<b>2015-597 / Pinewood Circle Ch #2</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
CCO / Channel - cleaned out	15.0	\$331.60	\$136.98	\$23.65	\$0.00	\$220.80	\$713.03
UTLOC / Utility locates	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
<b>2015-597 / Pinewood Circle Ch #2 Sub Total</b>	<b>16.0</b>	<b>\$352.06</b>	<b>\$136.98</b>	<b>\$23.65</b>	<b>\$0.00</b>	<b>\$234.03</b>	<b>\$746.72</b>
<b>Grand Total</b>	<b>16.0</b>	<b>\$352.06</b>	<b>\$136.98</b>	<b>\$23.65</b>	<b>\$0.00</b>	<b>\$234.03</b>	<b>\$746.72</b>

Before



During



After



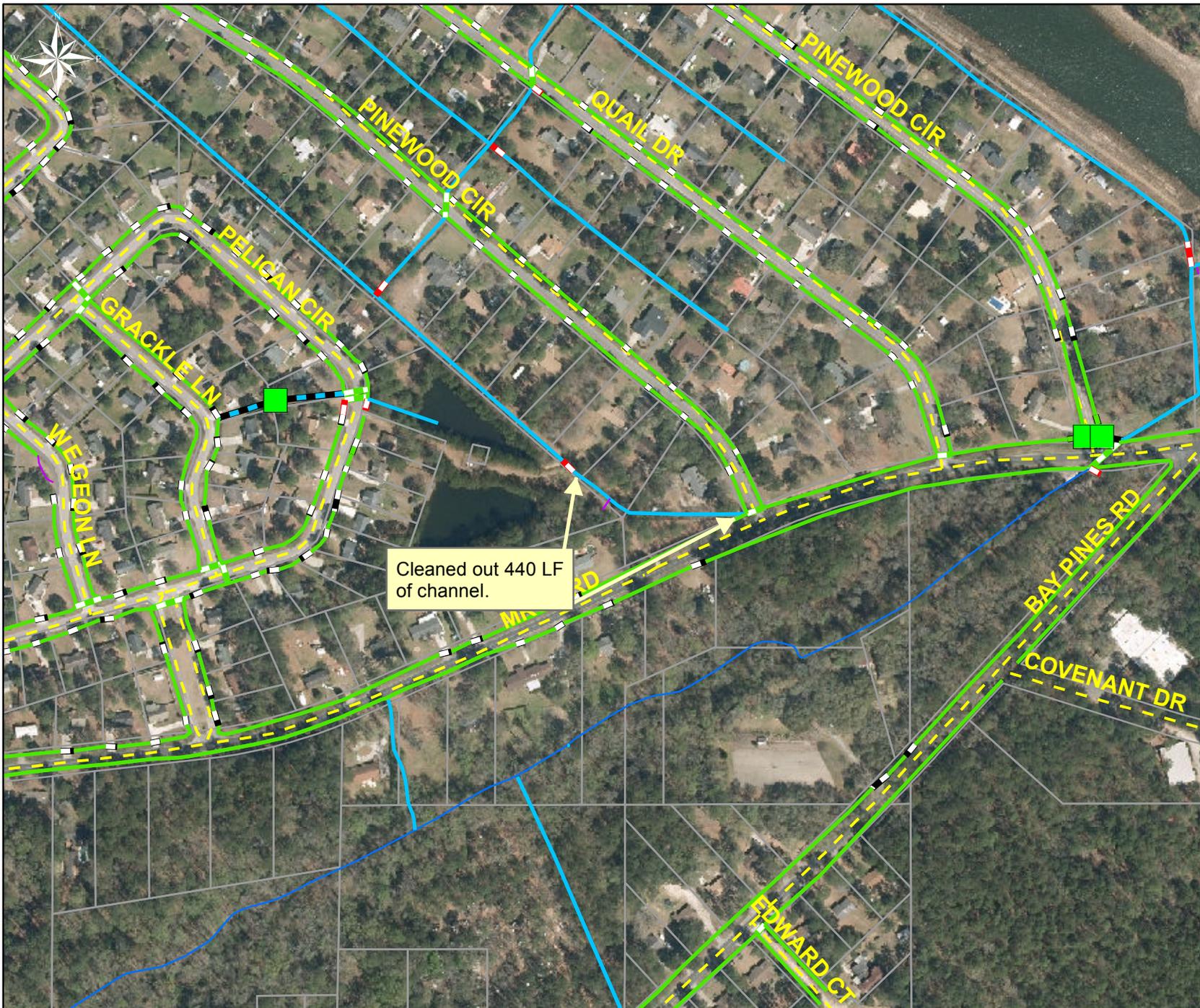
Project: Pinewood  
Circle Channel #2

Activity: Routine/  
Preventive  
Maintenance

Project #:  
2015-597

Township:  
Port Royal Island

Completed:  
April 2015



### Legend

#### Drainage Type

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

Cleaned out 440 LF  
of channel.



1 inch = 320 feet

Prepared By: BC Stormwater Management Utility

Date Print: 04/01/2015

File: C:\project summaries map\Pinewood Circle Channel #2\_2015-597



# Beaufort County Public Works Stormwater Infrastructure Project Summary

**Project Summary:** Pinewood Circle

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Repaired (1) catch basin and separated joint. Installed rip rap and hydroseeded for erosion control.

**Completion:** Apr-15

2015-599 / Pinewood Circle	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	15.0	\$300.95	\$119.85	\$1,013.10	\$0.00	\$216.30	\$1,650.20
HYDR / Hydroseeding	4.0	\$86.53	\$15.98	\$58.37	\$0.00	\$57.18	\$218.05
ONJV / Onsite Job Visit	11.0	\$354.96	\$39.58	\$12.46	\$0.00	\$250.45	\$657.45
PL / Project Layout	3.0	\$132.81	\$8.04	\$5.34	\$0.00	\$101.88	\$248.07
PP / Project Preparation	12.0	\$245.48	\$14.16	\$3.93	\$0.00	\$165.24	\$428.81
SR / Sinkhole repair	50.0	\$1,107.60	\$309.36	\$282.66	\$0.00	\$738.60	\$2,438.22
SVCREQ / Service Request	1.0	\$44.27	\$4.02	\$1.78	\$0.00	\$33.96	\$84.03
<b>2015-599 / Pinewood Circle Sub Total</b>	<b>96.5</b>	<b>\$2,282.83</b>	<b>\$510.99</b>	<b>\$1,377.64</b>	<b>\$0.00</b>	<b>\$1,570.23</b>	<b>\$5,741.68</b>
<b>Grand Total</b>	<b>96.5</b>	<b>\$2,282.83</b>	<b>\$510.99</b>	<b>\$1,377.64</b>	<b>\$0.00</b>	<b>\$1,570.23</b>	<b>\$5,741.68</b>

Before



During



After





Project: Pinewood Circle

Activity: Routine/ Preventive Maintenance

Project #: 2015-599

Township: Port Royal Island

Completed: April 2015

**Legend**

**Drainage Type**

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

0 15 30 60 90 120 Feet

1 inch = 67 feet

Prepared By: BC Stormwater Management Utility  
 Date Print: 04/01/2015  
 File: C:\project summaries map\Pinewood Circle-2015-599

# Beaufort County Stormwater Utility

## Unaudited Projected Revenue

	FY2015 Requested Board Budget	FY2016 Requested Board Budget
<b>Revenue</b>		
Admin SWU Fees	313,460	357,244
Utility Activities SWU Fees	2,766,881	2,672,981
<b>Total Revenue from SWU Fees</b>	<b>3,080,341</b>	<b>3,030,225</b>
Reimbursable Projects	2,500	2,500
Interest	2,955	2,771
Cost-Share for Joint Efforts	41,689	273,351
<b>Reserve Utilization</b>		
Capital Improvement Fund	767,500	144,086
Stormwater Utility	351,091	1,910,332
<b>Projected Revenue Total</b>	<b>4,246,076</b>	<b>5,363,265</b>

\$3.18/SFU

-3.5% from FY15 to FY16

\$2,500-SCDOT or BCSD

Note: Reimbursement ck for \$38,566 from Carolina Clear to be applied to PE/PO contract

**Town of Port Royal (ToPR)**

\$7,590 - WQ Monitoring \$60K NoBR

\$630 - PE/O cost-share \$60K C/W

\$13,961 - SMP Update cost-share \$475K C/W

**City of Beaufort (CoB)**

\$18,685 - WQ Monitoring \$60K NoBR

\$1,545 - PE/O cost-share \$60K C/W

\$34,251 - SMP Update cost-share \$475K C/W

**Town of Hilton Head Island (ToHHI)**

\$6,282 - PE/O cost-share \$60K C/W

\$139,243 - SMP Update cost-share \$475K C/W

**Town of Bluffton (ToB)**

\$2,210 - PE/O cost-share \$60K C/W

\$48,954 - SMP Update cost-share \$475K C/W

**Lowest in FY15** (Nov 14) **Most Recent** (Mar 15)

Unres Net Assets-\$678K

Unres Net Assets-\$1.4M

Cash Balance-(\$178K)

Cash Balance-\$2.76M

## Efforts (Expenditures)

<b>Administration</b>	313,460	360,495
<b>Utility Activities</b>		
UA/Control Reg	216,956	-
UA/WQ Monitoring	120,000	-
UA/Annual Maintenance	2,736,160	2,908,833
UA/Public Information/Outreach	50,000	-
UA/Drainage Enhancement	7,000	39,000
UA/Additional Studies	35,000	545,000
<i>Utility Activities Subtotal</i>	<i>3,165,116</i>	<i>3,492,833</i>
<b>Regulation</b>		
UA/Control Reg		445,242
UA/WQ Monitoring		105,000
UA/Public Information/Outreach		70,000
<i>Regulation Subtotal</i>	<i>-</i>	<i>620,242</i>
<b>Reserve Utilization</b>		
Capital Improvement Fund		
Admin Parking Lot Retrofit	327,169	-
Hwy 278 Retrofit	207,722	47,590
Okatie West/SC 170 Retrofit	100,000	315,000
Battery Creek Upper Retrofit	132,609	117,604
Buckingham Plantation	-	400,000
Brewer Memorial Demo Pond	-	9,500
<i>Reserve Utilization Subtotal</i>	<i>767,500</i>	<i>889,694</i>
<b>Efforts Total</b>	<b>4,246,076</b>	<b>5,363,265</b>

**Personnel**

Director of EE (SW Mngr) - .8 FTE

GIS&MS4 Data Mngr - 1.0 FTE

SW Bus Mngr - 1.0 FTE

Fiscal Tech - .1 FTE

SW Admin Tech - .5 FTE

**Personnel**

New Infrastructure Inspection Tech - 1.0 FTE

**\$30K - O&M's Professional Services**

\$21K - Survey

\$5K - Engineering Services

\$2K - Easement Appraisal Services

\$2K - Wetland Delineation/Restoration

**\$0 - Inventory Secondary SW System (Staff)**

**\$39K - PSMS Enhancements**

\$25K - Sawmill (Forby)

\$14K - Contingency

**\$545K - Additional Studies**

\$475K - Update to the SMMP

\$30K - Credits/Incentives Analysis

\$30K - Rate Study Phase II

\$10K - Contingency

**Personnel**

Superintendent - 1.0 FTE

Inspector - 1.0 FTE

Fiscal Tech - .1 FTE

Admin Tech - .5 FTE

New MS4 Coord - 1.0 FTE

**\$70K - SW Control Regulations' Professional Services**

\$25K - IDDE (Ord/Plan)

\$25K - Construction (Ord/Manual)

\$20K - Post Construction WQ (Ord. review/manual review)

**\$105K - WQ Monitoring**

\$100K - USCB WQ Lab

\$5K - Gel Engineering

(Purchase of monitoring equip reflected in Capital Assets)

**\$70K - Public Edu/Info**

\$60K - MCM 1&2 Contract

\$10K - Website Development

## Change in Capital Assets On Balance Sheet

	FY2015	FY2016
Capital Assets Additions	165,561	611,290
Depreciation	(182,523)	(248,481)
	(16,962)	362,809

**\$573,290 - UA**

\$314,460 - Replace (2) dump trucks

\$54K - Replace (2) 4x4 pickup trucks (intermediate)

\$32K - Add (1) pickup truck (Infr Inspection Tech)

\$5,830 - Radio (Infr Inspection Tech)

\$85K - Trailer Mounted Camera

\$32K Vac Truck Overhaul

\$50K - Land Acquisition (Condemnation)

**\$38K - Regulatory Section**

\$31K - Add (1) pickup truck (MS4 Coord)

\$7K - WagTech Kit

SWM-\$5,826

UA-\$231,980

Reg-\$10,675



BEAUFORT COUNTY  
STORMWATER MANAGEMENT UTILITY BOARD  
AGENDA

Wednesday, May 20, 2015  
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 29, 2015 ([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
  - A. Utility Update – Eric Larson, P.E. ([backup](#))
  - B. MS4 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 Projects Report – Eddie Bellamy ([backup](#))
5. UNFINISHED BUSINESS – Continue discussion for FY16 budget (if needed) ([backup](#))
6. NEW BUSINESS
  - A. Preliminary Rate Study Results – ATM and Eric Larson ([backup](#))
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
  - A. July 22, 2015 ([backup](#))
9. ADJOURNMENT

