



BEAUFORT COUNTY  
STORMWATER MANAGEMENT UTILITY BOARD  
Wednesday, September 4, 2013  
2:00 p.m.  
Beaufort Industrial Village, Building 2 Conference Room  
102 Industrial Village Road, Beaufort  
843.255.2801

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 – July 3, 2013 and August 7, 2013 ([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
  - A. Monitoring Update – Danny Polk
  - B. Utility Update – Robert McFee, P.E.
  - C. Upcoming Professional Contracts Report – Robert McFee, P.E.
  - D. Financial Report ([backup](#))
  - E. Maintenance Project Report – Eddie Bellamy ([backup](#))
5. UNFINISHED BUSINESS
  - A. Regional Coordination – Robert McFee, P.E.
6. NEW BUSINESS
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
  - A. October 2, 2013 ([backup](#))
9. ADJOURNMENT



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

July 3, 2013 at 2:00 p.m. in Beaufort Industrial Village Building #2 Conference Room  
Draft July 22, 2013

**Board Members**

**Present**

Don Smith  
James Fargher  
Allyn Schneider  
Patrick Mitchell  
William Bruggeman

**Absent**

John Youmans

**Ex-Officio Members**

**Present**

Andy Kinghorn  
Scott Liggett

**Absent**

Tony Maglione  
Ron Bullman

**Beaufort County Staff**

Robert McFee  
Eddie Bellamy  
Carolyn Wallace  
Danny Polk

**Visitors**

Paul Moore, Ward Edwards  
Reed Armstrong, Coastal Conservation League

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

- A. Agenda approved.
- B. June 5, 2013 Minutes were approved as posted.

**2. Introductions – Completed.**

**3. Public Comment – None.**

**4. Reports –**

**A. Monitoring Update – Danny Polk:**

- Sampling – There has been heavy rainfall events in June and plenty of sampling. There have been increased flows but no significant increase in fecal coliform. May add more sites around Pleasant Point Plantation because of a citizen's concern over the golf course opening back up. But there will be no data to compare the sample's data to.
- Silt Fence Installation – He has noticed properly installed silt fencing that has been undermined by heavy rainfall. He will continue to monitor this situation to see if the contractor reestablishes the silt fencing. Since the concerns voiced at the last board meeting (June 5, 2013), Mr. Kinghorn said he followed up with City of Beaufort personnel and Mr. Bellamy said he called SC DHEC who said they would send someone out to talk to the contractor.
- Water Budget Study – The data collector for the evaporation pan has been repaired and reinstalled. He will be meeting with Dr. Badr on Friday.
- Open Water Copper Sampling – In providing background information, Mr. Polk said previously SC DHEC had found impairments in the Broad River and Coosaw River. They started this sampling program to determine if there is anything the county can do to address this impairment. They will be sampling two sites in the Coosaw River in the next few weeks.

Just as they did when they previously received the sample results from the Broad River, they will discuss the findings with the board members once they receive the results.

- University of South Carolina – Beaufort (USCB) Laboratory – The tour of the lab will be Friday, July 26, 2013 at 2:00pm. The lab manager said four of the instruments have been installed, two are in process, and one is on order. The ICP is still being built. Mr. Fargher explained the ICP is a sophisticated piece of equipment that can simultaneously analyze elements by their molecular weight. Mr. McFee said that once the ICP is operational they will coordinate a second tour.
- SC DNR Salinity Study – Mr. Polk, Bob Klink, and Dan Ahern met with SC DNR representatives on June 21, 2013. They would like to provide a thirty minute presentation at the August board meeting.

**B. Utility Updates –**

- Robert McFee: The Request for Proposal (RFP) for stormwater services was submitted to the public on July 1, 2013 and a copy provided to each of the board members. He provided the timeline in hopes of providing a recommendation to County Council in September. Chairman Smith voiced his concern with not having a Stormwater Manager to coordinate efforts and respond to the public and professional communities’ concerns. Mr. Kinghorn questioned how the municipalities would coordinate with the county on stormwater issues and who to contact. Mr. McFee explained that those seeking information should contact the appropriate personnel within the county and the municipality should coordinate with him and he will advise them if the point of contact within the county changes. He said he think we have a great deal of team depth and that the departure of one or two team members does not cripple the utility. He is listening to their concern but this is an administration function and the management of the utility is going in a different direction. He said if the board members have a level of concern that his comments have not allayed, then their next recourse could be to raise the issue of hiring a Stormwater Manager through the Natural Resources Committee and up to County Council. He said the county has done the “on-lot controls” and the “permitted but not built”. What is left is existing impairments. So if the science is correct then we only have retrofits to address and we should not have any issues in the future. Mr. Kinghorn suggested the consultant provide a single person responsible for coordination. Mr. McFee said that the county will be inviting the municipalities and some of the board members to sit on the selection committee.

**C. Upcoming Professional Contracts Report –** Robert McFee: Other than the RFP previously mentioned, there are no new professional contracts.

**D. Financial Reports –** Copies of the May Stormwater financials were provided.

**E. Maintenance Projects Report –** Eddie Bellamy: Mr. Bellamy reported on (4) major projects: Old Dawson-Haynes Road Outfall, Palmetto Bluff Road, First African Baptist Church Road, and Bluffton Middle School. He also presented (22) minor and/or routine maintenance projects in a shortened format.

He mentioned with all of the recent rains there was only one report of a road being impassable and it was a private road.

**5. Unfinished Business –**

**Regional Coordination –** Robert McFee: The USCB lab, water budget study with Dr. Badr, and the salinity study with Dr. Leffler with SCDNR, all are continuing through their respective processes.

Battery Creek retrofit project – City of Beaufort is in the process of refining their submittal for the 319 grant for this retrofit. The support letters from the city and the county are being prepared. The split between the two jurisdictions is nearly \$150,000 each.

Highway 278 project – This project is going to the design review team within the next three weeks. The specific issue is tree removal. Hopefully there will be no permit issues. The Army Corps of Engineers and OCRM have released two of the foresites.

Stoney Creek retrofit – The County’s senior staff met with the Town of Bluffton on yesterday. This would be the largest retrofit thus far. They are working with the property owner that would be affected by this project.

Administrative Building Retrofit – Three contractors attended the prescreen interview but there was no bids submitted. He is investigating why. The contractors may not be interested because there were too many disciplines or specialized tasks.

Okatie East retrofit project – Mr. Paul Moore said the Public Works Department is gathering three quotes for the materials. Probably the original surveyor who did the TOPO will do the stakeout. Once this is completed then the Stormwater Infrastructure Section will schedule construction to begin. Mr. Bellamy is hoping they can get started by the end of August.

**6. New Business – None.**

**7. Public Comment** – Mr. Armstrong said his concern with a consultant managing the utility is that the public may have difficulties in determining who to contact when raising issues.

Mr. McFee responded to a question raised by Mr. Kinghorn and said the equipment purchased for the water quality lab will be jointly owned by the university and the county.

**8. Next Meeting Agenda** – The board members agreed to add the presentation from SC DNR on the salinity study to the August 7, 2013 agenda and the agenda was approved.

**9. Meeting Adjourned.**

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

August 7, 2013 at 2:00 p.m. in Beaufort Industrial Village Building #2 Conference Room  
Draft August 15, 2013

**Board Members**

| <b>Present</b>    | <b>Absent</b>    |
|-------------------|------------------|
| Don Smith         | John Youmans     |
| William Bruggeman | James Fargher    |
|                   | Allyn Schneider  |
|                   | Patrick Mitchell |

**Ex-Officio Members**

| <b>Present</b> | <b>Absent</b> |
|----------------|---------------|
| Andy Kinghorn  | Tony Maglione |
| Scott Liggett  |               |
| Kimberly Jones |               |

**Beaufort County Staff**

Robert McFee  
Eddie Bellamy  
Carolyn Wallace  
Danny Polk

**Visitors**

Paul Moore, Ward Edwards  
John Leffler, SCDNR  
April Turner, SC Sea Grant  
Eric Montie, USCB  
Denise Sanger, SCDNR

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

- A. Agenda – no quorum to approve the agenda.
- B. June 5, 2013 Minutes – no quorum to approve minutes.

**2. Introductions – Completed.**

**3. Public Comment(s) – None.**

**4. Reports –**

**A. Financial Reports** – Copies of the June Stormwater financials were provided. Alan Eisenman was not available to present the financials but will appear at the September Board meeting.

**B. Monitoring Update** – Danny Polk:

- Sampling – Mr. Polk reported from the monitoring meeting that was held on July 30, 2013 at 1:00pm in Public Works (PW) conference room. From the June samples, there are high levels of fecal coliform from sites that generally see high levels such as the County’s government center and the Cross Creek area. The levels were greater than 25,000. These areas are already being addressed. The levels in the Shell Point area were in the 10,000 to 11,000 range.

Mr. McFee said they spoke with the contractors that had shown interest but did not provide a bid for the government center retrofit. The contractors did not want to bid on a demonstrative project that included porous asphalt, porous concrete, and pervious pavers.

The RFP will probably be modified to only include pervious pavers and issued again for bids.

**C. Salinity Study** – Dr. John Leffler with SCDNR: Dr. Leffler provided a copy of his presentation (Please see attachment. You can view the entire presentation on the county’s website at bcgov.net.)

As background information, Dr. Leffler said this study began as a joint project when Mr. Dan Ahern requested a meeting back in April 2012 between the county, USCB, SCDNR, Town of Bluffton and Waddell Mariculture Center. They discussed how they could work together to determine volume sensitive waters in Beaufort County. From that meeting each party signed a Memorandum of Understanding that outlined a five year partnership.

SCDNR would conduct a salinity study that would allow them to study the relationship between rainfall events and stormwater-induced changes in salinity within a watershed. SCDNR has received a grant that will allow them to study five watersheds simultaneously within a year. The watersheds will include the May River, Okatie River, and both the Burton Hill and Grober branches of Battery Creek. The advisory committee that will be formed shortly will help select the remaining priority watershed. Dr. Leffler provided a timeline for the study.

- D. Utility Updates** – Robert McFee: The Request for Proposal (RFP) for stormwater services have been received and distributed to the members of the Evaluation Committee. These proposals are for the administrative and technical oversight of the utility. They are being reviewed and the committee has a meeting on tomorrow. Mr. Smith volunteered to replace Mr. Fargher on the review committee.
- E. Upcoming Professional Contracts Report** – Robert McFee: Other than the RFP previously mentioned, there are no new professional contracts.
- F. Maintenance Projects Report** – Eddie Bellamy: Mr. Bellamy reported on (2) major projects: Keans Neck Road Outfall and Salem Drive East Phase II. He also presented (13) minor and/or routine maintenance projects in a shortened format.

## **5. Unfinished Business –**

**Regional Coordination** – *Highway 278 project* – The County is still working through the last of the permit sites with the Army Corps of Engineers. We have OCRM approvals. Mr. Polk is helping to finish up on the approvals on the county side as well.

*Okatie East retrofit project* – Construction hasn't started. They are waiting on materials and should be able to start in two to four weeks.

*Battery Creek retrofit project* – The 319 grant has been fully submitted. SCDHEC continue to voice their support. We are hopeful that the City of Beaufort will receive the grant.



*Stoney Creek retrofit* – Mr. McFee and Ms. Jones have had several discussions. This 160 acres seem to be a viable site for a retrofit. This was presented to the Natural Resources Committee last June. They still have to do more diplomatic work with the property owner to get them to “buy into” the community solution and hopefully be allowed on the property to do some preliminary engineering.

- 6. New Business** – Mr. Smith asked Mr. McFee about the vacant board seats left by Mr. Cammerata and Mr. Youmans. Mr. McFee said the county was already discussing the vacancy left by Mr. Cammerata. He said he hadn't received Mr. Youmans' letter of resignation but he would check on it. (Follow up: Mr. McFee checked with the Clerk to Council office and they have not received a letter of resignation from Mr. Youmans.)

## **7. Public Comment** – None.

- 8. Next Meeting Agenda** – Mr. Eisenman presentation will be added to the September 4, 2013 Board meeting agenda.

## **9. Meeting Adjourned.**


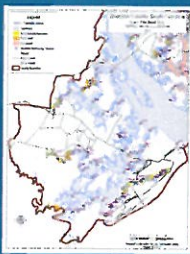
## Identifying Critical Tidal Creek Headwaters

Waddell Mariculture Center  
April 11, 2012

Dan Ahern, 2012



### Background:

- Beaufort County Stormwater Standards - Meeting volume requirements satisfies most pollutant and bacteria needs
- Water Quality Impairments in the County

### Efforts to identify Volume Sensitive Waters:

- Stormwater Management Plan Modeling
- Analysis of SC DHEC shellfish monitoring data which sometimes suggests points of rapid change in water quality in headwater drainages.

| Okatie Headwater Stations | 2009 | 2010 | 2011 |
|---------------------------|------|------|------|
| 18-08                     | 9/5  | 10/4 | 5/3  |
| 18-16                     | 7/3  | 5/1  | 9/3  |
| 18-17                     | 4/0  | 3/1  | 4/0  |
| 18-07                     | 0/0  | 3/0  | 2/1  |
| 18-01                     | 0/0  | 2/0  | 3/1  |
| 18-02                     | 0/0  | 3/0  | 3/1  |



### Linkage to Utility Priorities

#### County Council's 2012 Top Ten External Goals

- Watershed restoration program
  - Okatie River; Battery Creek; May River
- Develop joint project for USCB, SCDNR's Waddell Center and the Stormwater Management Utility

### Memorandum of Understanding

- Outlines a 5-year partnership
- Studying the relationship between rainfall events and stormwater-induced changes in salinity within the waters of County-identified priority watersheds
- Specifically identifies the May, Okatie, and Battery Creek watersheds

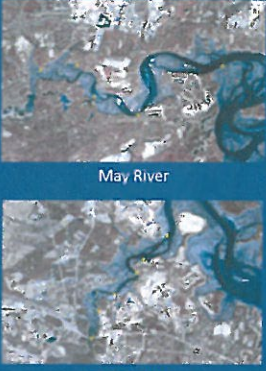
### Partners in the 5-Year Memorandum of Agreement

- Beaufort County – (Robert McFee, Danny Polk)
- Town of Bluffton – (Kim Jones)
- South Carolina Department of Natural Resources – (Denise Sanger, John Leffler)
- University of South Carolina Beaufort – (Eric Monte)



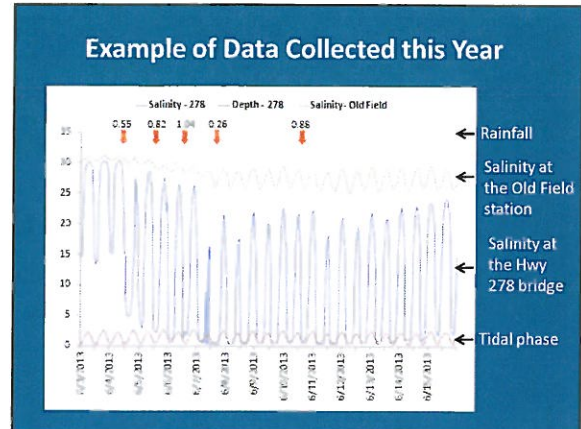
### Scope of Work

- Install rain gauges in each watershed.
- Deploy dataloggers to measure salinity and depth.
- Array of dataloggers downstream from headwaters.
- Evaluate magnitude of salinity change as function of rainfall.
- Determine extent of signal downstream until attenuated.
- Identify location of "critical volume-sensitive waters".
- Move from watershed to watershed over 5 years.



May River

Okatie River



### Additional Funding Opportunity

- National Estuarine Research Reserve System's Science Collaborative Grants Program
- Proposal sponsored by the ACE Basin National Estuarine Research Reserve
- Expand effort to deploy salinity/depth dataloggers and rain gauges in five watersheds simultaneously.
- Generate data and interpretations from five sites in 1-2 years rather than one site per year over 5 years.
- Incorporate information into the County's 2016-2026 Stormwater Management Plan.

### Partners in the NERRS Science Collaborative Project

- Beaufort County – (Robert McFee, Danny Polk)
- South Carolina Department of Natural Resources – (Denise Sanger, John Leffler)
- University of South Carolina Beaufort – (Eric Monte)
- South Carolina Sea Grant Consortium – (April Turner)
- NOAA Hollings Marine Laboratory – (Anne Blair)



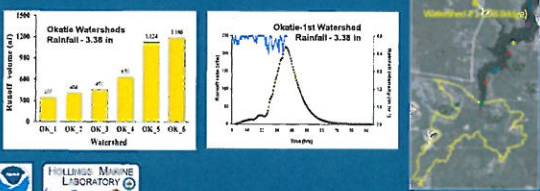
May River

Burton Hill and Grober branches of Battery Creek

Okatie River

### SWARM – Stormwater Runoff Modeling System

- Model is based on U.S.D.A., Natural Resources Conservation Service Volume - Flow Curve Number (CN) method
- Rate & time – Dimensionless Unit Hydrograph method
- Calculates runoff based on environmental settings (e.g., levels of development, soil types, a range of sizes, topography);
- Integrates effects of development and projected climate change scenarios.



Okatie Watersheds Rainfall - 3.38 in

Okatie-1st Watershed Rainfall - 3.28 in

HOLLINGS MARINE LABORATORY



## Collaborative Approach

1. Inform and update the Stormwater Utility Board and seek advice throughout project.
2. Organization of an Advisory Committee to advise and assist through several workshops:
  - Selection of fifth watershed
  - Identifying and establishing specific monitoring sites
  - Interpretation of results
  - Site-specific modeling modifications
  - Synthesize results
  - Translate results into useful format for decision-makers
3. Communicate research activities and results to wider community, i.e. Port Royal Foundation, May River Watershed Action Plan Committee, others ???

## Tentative Timeline

- Aug.–Sep.: Consult with Utility Board ; Organize and meet with Advisory Committee
- Sep. 1: Grant begins.
- Sep.– Oct.: Set up accounts; Purchase equipment; Establish monitoring stations
- Nov. – Dec.: Deploy dataloggers and begin monitoring
- Apr. 2014: Meet with Advisory Committee to review data, seek help in interpreting preliminary results, and specific detail for model

## Timeline (continued)

- Sep. 2014: Meet with Advisory Committee to review data, rank priority watersheds by volume sensitivity, evaluate utility of runoff model and projections, describe limitations and uncertainties
- Oct. 2014: Meet with Utility Board to present updates and discuss interpretations of results
- Nov. 2014 - forward: Under the Memorandum of Understanding, continue monitoring specific locations to refine dataset and answer questions that arise from Advisory Committee and Utility Board.

Thank you for your time.

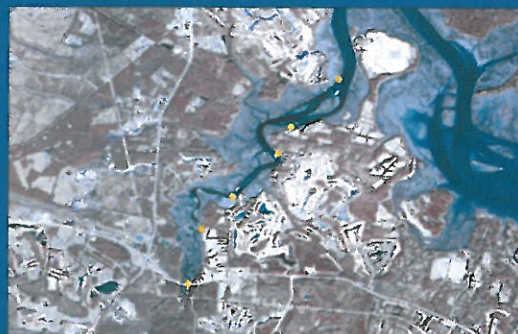
Questions?

Suggestions?

May River



Okatie River



Battery Creek – Burton Hill & Grober branches



Additional Priority Watersheds



**UNAUDITED AND PRELIMINARY**  
**BEAUFORT COUNTY, SOUTH CAROLINA**  
**STATEMENT OF NET ASSETS**  
Stormwater Utility  
June 30, 2013 & June 30, 2012

|  | <u>June 30, 2013</u> | <u>June 30, 2012</u> |
|--|----------------------|----------------------|
| <b><u>ASSETS</u></b>                               |                      |                      |
| Current Assets                                     |                      |                      |
| Cash and Investments with Trustee                  | \$ 2,606,776         | \$ 2,326,793         |
| Receivables, Net                                   | 41,041               | 54,135.00            |
| Inventories  | 92,511               | 102,941              |
| Prepayments  | 14,293               | 20,202               |
| Total Current Assets                               | <u>2,754,621</u>     | <u>2,504,071</u>     |
| Capital Assets                                     | 2,948,697            | 2,798,912            |
| Accumulated Depreciation                           | <u>(2,091,280)</u>   | <u>(1,797,930)</u>   |
|  | 857,417              | 1,000,982            |
| Total Assets                                       | \$ 3,612,038         | \$ 3,505,053         |
| <b><u>LIABILITIES</u></b>                          |                      |                      |
| Liabilities  |                      |                      |
| Account Payable                                    | 99,689               | 83,823               |
| Accrued Payroll                                    | 38,788               | 54,263               |
| Accrued Compensated Absences                       | 6,247                | 4,470                |
| Total Current Liabilities                          | <u>144,724</u>       | <u>142,556</u>       |
| Long Term Liabilities                              |                      |                      |
| Accrued Compensated Absences                       | 55,379               | 64,937               |
| Net Other Postemployment<br>Benefits Obligation    | <u>708,273</u>       | <u>601,917</u>       |
| Total Long Term Liabilities                        | <u>763,652</u>       | <u>666,854</u>       |
| Total Liabilities                                  | 908,376              | 809,410              |
| <b><u>NET ASSETS</u></b>                           |                      |                      |
| Invested in Capital Assets, Net<br>of Related Debt | 857,417              | 1,000,982            |
| Reserved for Encumbrances                          | 44,360               | 3,015                |
| Unrestricted                                       | <u>1,801,885</u>     | <u>1,691,646</u>     |
| Total Net Assets                                   | <u>\$ 2,703,662</u>  | <u>\$ 2,695,643</u>  |

**Unaudited and Preliminary**  
 BEAUFORT COUNTY, SOUTH CAROLINA  
 STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS  
 Stormwater Utility  
 For the Period Ended June 30, 2013

|   | Budget<br>FY 2013   | June 30, 2013       | Budget to<br>Actual | Percent<br>of<br>Budget |
|---|---------------------|---------------------|---------------------|-------------------------|
| Operating Revenues                      |                     |                     |                     |                         |
| Stormwater Utility Fees                 | \$ 3,469,180        | \$ 3,017,202 *      | (451,978)           | 87%                     |
| Stormwater Utility Project Billings     | 370,664             | 58,145              | (312,519)           | 16%                     |
| Total Operating Revenues                | <u>3,839,844</u>    | <u>3,075,347</u>    | <u>(764,497)</u>    | <u>80%</u>              |
| Operating Expenses                      |                     |                     |                     |                         |
| Personnel                               | 2,014,323           | 1,811,463           | (202,860)           | 90%                     |
| Purchased Services                      | 1,295,013           | 752,675             | (542,338)           | 58%                     |
| Supplies                                | 427,772             | 290,781             | (136,991)           | 68%                     |
| Depreciation                            | 273,545             | 250,412             | (23,133)            | 92%                     |
| Total Operating Expenses                | <u>4,010,653</u>    | <u>3,105,331</u>    | <u>(905,322)</u>    | <u>77%</u>              |
| Operating Income (Loss)                 | (170,809)           | (29,984)            | 140,825             | 18%                     |
| Non-Operating Revenues (Expenses)       |                     |                     |                     |                         |
| Interest Earned                         | 11,389              | -                   | (11,389)            | 0%                      |
| Total Non-Operating Revenues (Expenses) | <u>11,389</u>       | <u>-</u>            | <u>(11,389)</u>     | <u>0%</u>               |
| Change in Net Assets                    | (159,420)           | (29,984)            | 129,436             | 19%                     |
| Net Assets, Beginning                   | <u>2,733,646</u>    | <u>2,733,646</u>    |                     |                         |
| Net Assets, Ending                      | <u>\$ 2,574,226</u> | <u>\$ 2,703,662</u> | 129,436             | 105%                    |

**NOTE: \*Stormwater Utility Fees does not currently include August accrual. (Revenues received in August, but recorded in FY 13)**

**Unaudited and Preliminary**  
**BEAUFORT COUNTY, SOUTH CAROLINA**  
**STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS**  
**Stormwater Utility**  
**For the Period Ended June 30, 2012**

|   | Budget<br>FY 2012   | June 30, 2012       | Budget to<br>Actual | Percent<br>of<br>Budget |
|---|---------------------|---------------------|---------------------|-------------------------|
| Operating Revenues                      |                     |                     |                     |                         |
| Stormwater Utility Fees                 | \$ 3,344,133        | \$ 3,072,172        | (271,961)           | 92%                     |
| Stormwater Utility Project Billings     | 64,278              | 62,282              | (1,996)             | 97%                     |
| Total Operating Revenues                | <u>3,408,411</u>    | <u>3,134,454</u>    | <u>(273,957)</u>    | 92%                     |
| Operating Expenses                      |                     |                     |                     |                         |
| Personnel                               | 1,986,780           | 1,768,532           | (218,248)           | 89%                     |
| Purchased Services                      | 770,938             | 687,962             | (82,976)            | 89%                     |
| Supplies                                | 426,223             | 347,654             | (78,569)            | 82%                     |
| Depreciation                            | 285,859             | 283,059             | (2,800)             | 99%                     |
| Total Operating Expenses                | <u>3,469,800</u>    | <u>3,087,207</u>    | <u>(382,593)</u>    | 89%                     |
| Operating Income (Loss)                 | (61,389)            | 47,247              | 108,636             | -77%                    |
| Non-Operating Revenues (Expenses)       |                     |                     |                     |                         |
| Gain (Loss) on Sale of Capital Assets   | 50,000              | 50,000              | -                   | 100%                    |
| Interest Earned                         | 11,389              | 4,467               | (6,922)             | 39%                     |
| Total Non-Operating Revenues (Expenses) | <u>61,389</u>       | <u>54,467</u>       | <u>(6,922)</u>      | 100%                    |
| Change in Net Assets                    | -                   | 101,714             | 101,714             | -100%                   |
| Net Assets, Beginning                   | <u>2,593,929</u>    | <u>2,593,929</u>    |                     |                         |
| Net Assets, Ending                      | <u>\$ 2,593,929</u> | <u>\$ 2,695,643</u> | 101,714             | 104%                    |



## **Maintenance Project Reports – Eddie Bellamy**

Good afternoon, Mr. Chairman and members of the Board. I will be reporting on three major and 9 minor and/or routine maintenance projects this month.

The first major project is **Trask Estates Outfall**, completed in June in the Burton area of Port Royal Island. This was major reconstruction and clean out of over a mile and a half of channel ditches that run from the Public Works complex on Shanklin Road to the project we completed last year in Country Manor. We Shinn cut and reconstructed 1,070 feet of channel ditch and the associated workshelf; cleaned out an additional 6,992 feet of channel ditch; jetted out a crossline pipe and an access pipe; and installed three new access pipes, two new crossline pipes; seven new bleeder pipes, and two access gates. And, we installed rip rap where necessary and hydroseeded for erosion control. Total cost of the project was **\$56,199**.

The next major project is **Westminster Place**, completed in July on Lady's Island. We cleaned out 1,608 feet of roadside ditch, jetted out 21 driveway pipes and three crossline pipes, and hydroseeded for erosion control. Total cost of the project was **\$20,682**.

The last major project is **Warsaw Island Drive/Gardner Drive** completed in July on Warsaw Island. We cleaned out 806 feet of channel ditch and 15,071 feet of roadside ditch; extended one driveway pipe; and jetted out seven crossline pipes, three access pipes, and 58 driveway pipes. And we installed rip rap for erosion control. Warsaw Island is very low and the initial drainage for the majority of the parcels is the roadside ditch system. We have put this system on a five year clean out cycle in order to ensure that the drainage on the island is as effective as possible. Total cost of the project was **\$70,734**.

Now for the 9 projects in the shortened format:

**Hunters Grove Road** – Completed in June; we replaced 28 feet of outfall pipe and reinstalled rip-rap for erosion control.

**Okatie Highway County Complex** – Completed in July; we constructed 200 feet of swale to relieve a flooding problem.

**Old Distant Island Road** – Completed in July; we cleaned out 1,155 feet of roadside ditch, 1,720 feet of valley drains, and two catch basins. We also jetted out two driveway pipes, three crossline pipes, and 830 feet of roadside pipe.

**African Baptist Church Road** – Completed in July; we installed one driveway pipe.

**Keans Neck Road/ Hunt Terrace** – Completed in July; we cleaned out 733 feet of roadside ditch and repaired a sinkhole.

**Lost Island Road** – Completed in July; we repaired a washout.

**Dog Creek road/Relative Lane** – Completed in August; we cleaned out 1,985 feet of roadside ditch and one catch basin and jetted out one crossline pipe.

**Powell Drive Outfall** – Completed in August; we cleaned out 2,502 feet of channel ditch and replaced one access pipe.

**Campbell Road** – Completed in August; we cleaned out 100 feet of roadside ditch, replace a crossline pipe, and installed rip rap for erosion control

**Are there any questions?**



BEAUFORT COUNTY  
STORMWATER MANAGEMENT UTILITY BOARD  
Wednesday, October 2, 2013  
2:00 p.m.  
Beaufort Industrial Village, Building 2 Conference Room  
102 Industrial Village Road, Beaufort  
843.255.2801

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 – September 4, 2013 ([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
  - A. Monitoring Update – Danny Polk
  - B. Utility Update – Robert McFee, P.E.
  - C. Upcoming Professional Contracts Report – Robert McFee, P.E.
  - D. Financial Report ([backup](#))
  - E. Maintenance Project Report – Eddie Bellamy ([backup](#))
5. UNFINISHED BUSINESS
  - A. Regional Coordination – Robert McFee, P.E.
6. NEW BUSINESS
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
  - A. November 6, 2013 ([backup](#))
9. ADJOURNMENT

