MINUTES January 8, 2015 REGULAR COUNCIL MEETING 6:00 P.M.

Town of Edisto Beach Town Hall 2414 Murray Street Edisto Beach, SC 29438

Present: Jane S. Darby, Mayor Pro Tempore, Pete Anderson, Susan Hornsby and Patti Smyer, Council Members; Absent: Mayor Burley L. Lyons, medical issues. *Quorum of Council Present*.

Mayor Pro Tem Darby welcomed guests and thanked all who served the Town of Edisto Beach.

Council Session opened with the *Pledge of Allegiance* and a word of prayer by Councilwoman Smyer.

Approval of Minutes

Councilwoman Smyer moved to approve the Regular Council Meeting minutes of December 11, 2014. Councilwoman Hornsby seconded the motion, which was approved unanimously.

Proclamations and Presentations

A. Starfish Award – Edisto Realty – Mayor Pro Tem Jane Darby presented a Starfish Award to Matthew Kizer of Edisto Realty for his generous donation of a live Christmas tree for Bay Creek Park.

Mayor Pro Tem Darby recognized Deborah Hargis for receiving a scholarship to attend the International Institute of Municipal Clerks Region III Annual Conference in Jacksonville Florida the week of January 12, 2015.

Old Business

A. Deer Population on Edisto Beach – DNR wildlife biologist Dean Harrigal addressed Council and those in attendance concerning the deer population. Several audience members told Mr. Harrigal the deer had become a nuisance by eating vegetable gardens, flowers, shrubs and foliage. Another audience member expressed concern about the health of the deer. Mr. Harrigal explained that deer seldom if ever starved, and Edisto Beach has plenty of food and living space for the deer. He suggested that residents take precautions by putting up fencing around gardens, using chemical repellent or planting shrubbery and flowers that deer don't like to eat. He told those in attendance that if residents become concerned with their safety and if deer vs. car accidents increase, then there would be a significant problem. Mayor Pro Tem Darby thanked Mr. Harrigal for his time and noted Council would take the information under advisement.

- B. Update on Temporary Moratorium on the Issuance and Approval of Building Permits and Record Plats for the Big Bay Creek and Scott Creek Property Owners sewer line project in the Town of Edisto Beach for Properties Situated Inside the Municipal Boundaries to the Town Sewer System through the Big Bay Creek and Scott Creek Property Owners sewer line project Bob Doub, Utilities Director, updated Council on the Moratorium. The hydraulic evaluation of the collection system is being done currently by AECOM. Information requested by AECOM has been forwarded, including pump curves for pump stations A, B and C, pump station run-time data, wastewater treatment plan flow data, pump station unit contributory loading, and pump station draw-down data. An AECOM representative will be at Edisto Beach on January 9, 2015 working with the Utilities Department conducting additional draw-down studies to ensure that the numbers are equating. Mayor Pro Tem Darby explained to those in attendance that a 90-day review is required any time a moratorium is put in place until a solution is available.
- C. Civic Center Mayor Pro Tem Darby told those in attendance that a decision on the Civic Center had been deferred due to a scheduling conflict with Colleton County. The Colleton County Council meeting has been moved to January 13, 2015 so Council should have an update at the February meeting.

New Business/Appearances

- A. Coastal Science and Engineering Survey Report No. 8 Annual Beach and Inshore Surveys and Assessment of Beach and Groin Conditions Steven Traynum and Trey Hair provided a PowerPoint presentation which is attached.
- B. Ocean Water Monitoring Station Tier Re-assessment/Non-Permitted Discharge Assessment within Big Bay Creek and the South Edisto River at Edisto Beach, S.C. Study Report David Payne from the Department of Health and Environmental Control presented a PowerPoint which is attached.
- C. Causeway Beautification DHEC, OCRM and the State Park have agreed to permit work on the causeway without mitigation. This project was suggested by the TIDE Committee. Councilwoman Hornsby moved to approve beginning the vegetation trimming, removal and clean-up work on the causeway with an estimated cost of \$5,000 or less to be transferred from the General Fund Contingency to Public Works Parks/Recreation. Councilwoman Smyer seconded the motion, which was approved unanimously.

Committee Vacancies

A. Construction Board of Adjustments and Appeals – 3 vacancies – Bob Sandifer and David Salter have been appointed to the Construction Board of Adjustments and Appeals. No other applications have been received.

B. TIDE Committee – 1 vacancy – Mary Edna Keller's term expires in February and she has decided not to pursue another term. No applications have been received to date.

Departmental Reports and Committee Updates

Administration

Town Administrator Iris Hill gave the financial report for December 2014.

	Received	Spent
General Fund	46.48%	54.84%
Water Fund	61.78%	53.18%
Wastewater Fund	68.58%	47.14%

Building

Building Codes Official, Patrick Brown, gave the report for December 2014.

	December-13	December-14	YTD
Business/Rental License Fees	\$8,498.75	\$2,789.25	\$11,709.00
New Construction Permits	3	0	3
Other Permits	19	33	112
Permit Fees	\$7,366.00	\$4,631.00	\$19,323.50
Inspections	60	37	268
Bay Creek Park	0.00	\$150.00	\$9,435.00

<u>Fire</u>

Fire Chief Denney Conley gave the report for the month of December 2014.

Calls	December-13	December-14	YTD
Medical	34	9	140
Fire-related	6	5	30
Public Assistance	22	12	246
Beach Wheel Chairs	3	1	61
Water Rescue	-	0	8

Police

Bill Coffey, Police Chief, gave the report for the month ending December 31, 2014.

	December-13	December-14	YTD
Citations	27	15	150
Speeding	20	14	89

Warnings	74	72	566
Alarm Calls	19	8	83
Calls for 2 or More Officers	19	8	62
Miles Patrolled	7,705	8,672	49,763
Assaults	0	1	7
Larcenies	0	4	34
Burglaries	0	0	2
Incidents & Calls for Service	69	96	797
Golf Cart Violations	0	0	11
Domestic Violence Calls	0	0	0
Property Checks	2,385	2,074	9,846
Open Container	0	0	7
D.U.I.	-	0	2
CDV Arrest	_	0	0
Disorderly Conduct	0	. 0	6

Utilities

Bob Doub, Utilities Director, gave the report for December 2014.

	December-13	December-14	YTD
Pumped MG Water	8.82	7.63	94.03
Treated MG Wastewater	2.77	2.92	27.59
Water Line Repairs	2	2	22
Work Order Repairs	60	83	578

Abdella Services completed ten valve insertions on six- and eight-inch water lines on Palmetto Boulevard, Jungle Road, Lybrand Street, Myrtle Street and Sunset Street. This is part of the Town's upgrade to the water system in preparation for adding more valves and replacing valves for better control of the water system.

Public Works

Public Works Director Bob Doub gave the report for the month of December 2014.

	December-13	December-14	YTD
Mowed Acres	0	0	274
Cleaned Ditches	5,271ft	0ft	15,043ft
Roll Carts Delivered	2	8	51

The Public Works Department has been busy cleaning beach accesses, moving roll carts under houses and placing new stickers on the roll carts, notifying residents and visitors of the garbage schedule.

Chamber of Commerce

Dan Carter, Executive Director of the Edisto Chamber, gave the report for the month of December, 2014.

- The Edisto Museum will have their member meeting and reception on January 11th.
- The Edisto Eats Festival will have an oyster roast on January 16th at Bay Creek Park.
- On January 19, 2015 there will be a Business After Hours sponsored by Andy Cook CPA and Cook Financial2 at Finn's Island Grill.
- On January 24, 2015, Dockside Restaurant will host a shag event and oyster roast with DJ Jim Bowers beginning at 1:00 p.m.
- The first preliminary cook-off for the Edisto Eats Ultimate Chef Competition will be held on January 27 at Pressley's at the Marina.
- The Beach Home Tour collected \$600 for the Beach Renourishment Fund.

Public Comment Period

No one had any comments.

Adjournment

Councilman Anderson moved to adjourn the meeting. Councilwoman Smyer seconded the motion which was approved unanimously.

The media/public was duly notified of the date, time and location of the meeting on Wednesday, December 31, 2014.

APPROVED BY TOWN COUNCIL

Deborah Hargis, Municipal Clerk

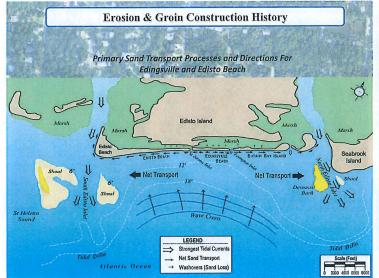
February 12, 2015



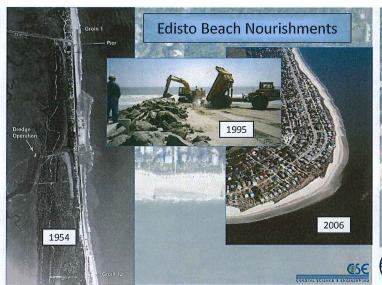
Edisto Beach

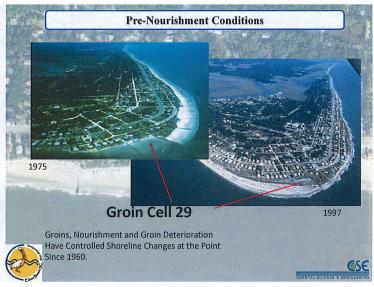
- 5.8 miles from Jeremy Inlet to Big Bay Creek
- ~3.4 miles of upland along the Atlantic
- ~190 oceanfront homes in project area
- ~2,180 residential units
- Renourishments:
 - **-** 1954, 1995, 2006
- Groins
 - 34 groins built between 1948 and 1975
 - Groins rehabilitated in 1995

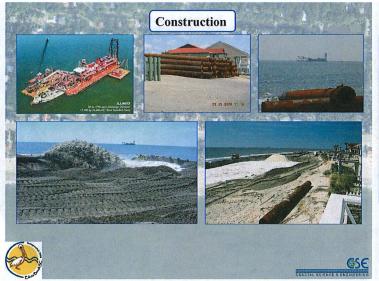




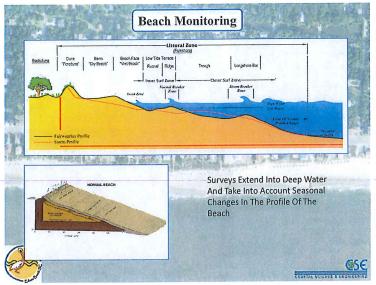


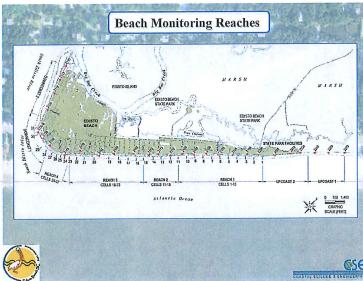


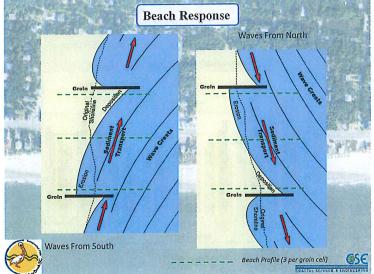










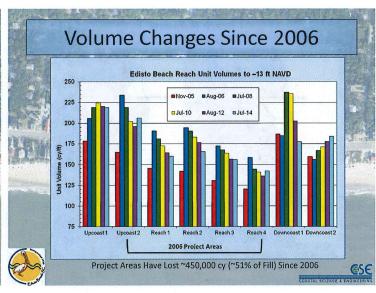


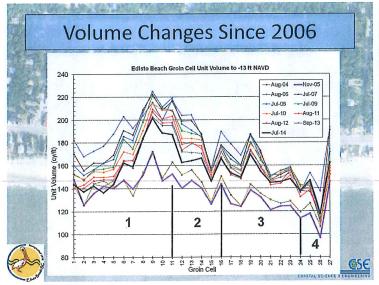


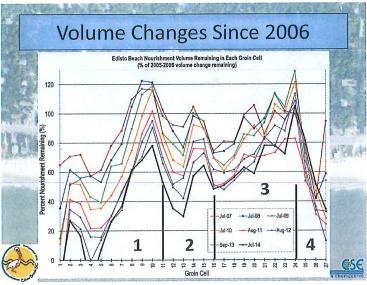


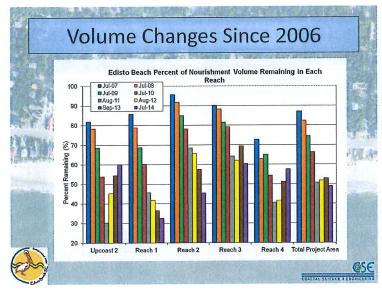


Volume Changes					
Reach Volumes (cy)	Length (ft)	2013-2014 Change (cy)	2013-2014 Unit Change (cy/ft)	2005-2014 Change (cy)	2005-2014 Unit Change (cy/ft)
Upcoast 1	3,160	-12,674	-4.0	129,077	40.8
Upcoast 2	2,675	10,506	3.9	111,150	41.6
Reach 1	5,993	-10,424	-1.7	88,557	14.8
Reach 2	3,004	-19,213	-6.4	71,962	24.0
Reach 3	5,110	-19,339	-3.8	128,806	25.2
Reach 4	1,378	3,357	2.4	30,210	21.9
Downcoast 1	3,012	-31,780	-10.6	-27,972	-9.3
Downcoast 2	4,039	11,998	3.0	99,468	24.6
Project Area	18,160	-35,113	-1.9	430,685	23.7
Totals	28,371	-67,569	-2.4	631,258	22.3



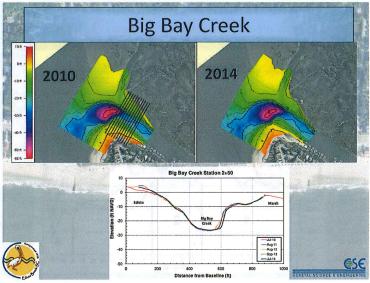


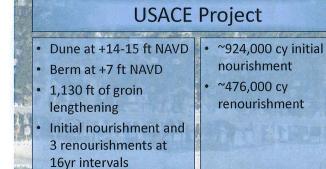




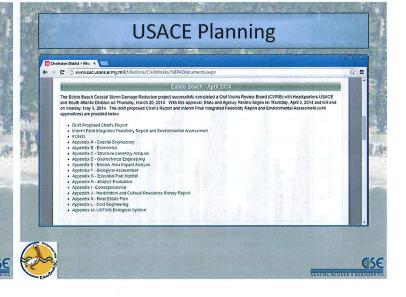








Increase of 24 acres of turtle habitat



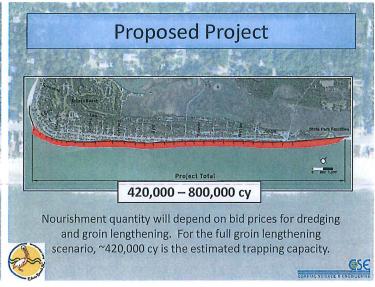


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Proposed Project

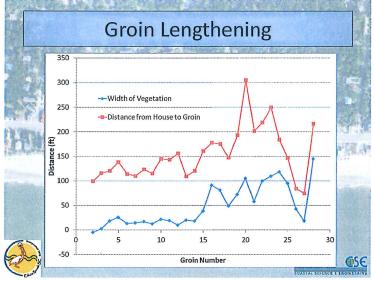
- Very similar to USACE plan
- · Limited by Town's budget
- Seeks most beneficial combination of nourishment/groin lengthening
- Smaller nourishment volume than the USACE initial project
- Fall/Winter of 2016-2017 schedule

- Seeks up to 1,765 of groin lengthening for up to 26 groins
- The Town does not anticipate fully lengthening all of the groins due to budget constraints
- At minimum, sufficient nourishment will be added to meet trapping capacity of lengthening groins



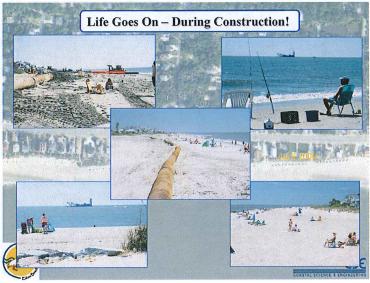


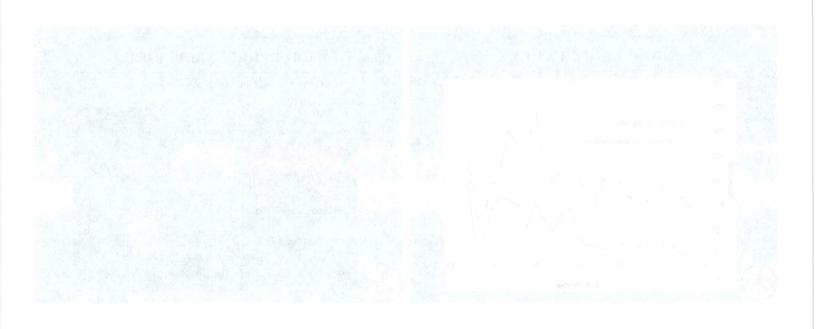
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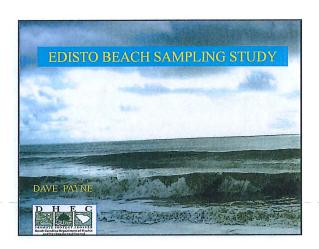














Background

- Fourteen (14) Ocean water monitoring stations on Edisto Beach. Eleven (11) are oceanfront and four(4) – LC-082, LC-081, LC-080A, and LC-080- are riverfront (South Edisto River).
- Sample twice per month May 1 Sept 30
- Enterococcus bacteria indicator of human or animal fecal waste
- > 104 CFU/100 ml = Resample (Highlighted in Yellow in report)
- > 500 CFU/100 ml = Issue Swimming Advisory, Post signs, media release, status on website (Red in report)

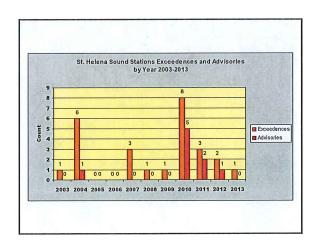
Why do a study?

- Summer of 2010 8 samples at riverfront stations exceeded standard of 104 CFU/100 ml.
- Four samples exceeded 500 CFU/100 ml, resulting in Swimming Advisories on August 9 and Sept 27.
- August 9: results at three consecutive stations (LC-080, 80A, 81) were 521, 3255, and 691. September 27 LC-080A was 644.

Advisory Notification

• Signs posted on the beach





Purpose of Study

- ID sources of enterococcus bacteria
- Re-evaluate current Tier 2 status of beach stations.

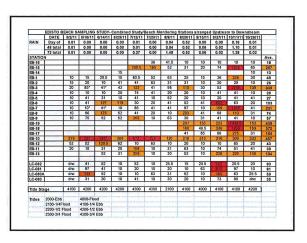


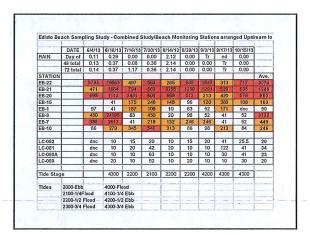
Study Design

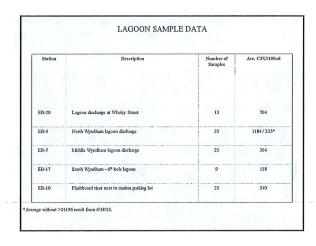
- Started in 2011 with 13 sample sites. Ended in 2014 with total of 22 sites sampled, including Scott Creek and within lagoon systems.
- Samples collected at study stations on same day as routine beach samples to determine impact on beach stations.
- · Sampled on ebb tide

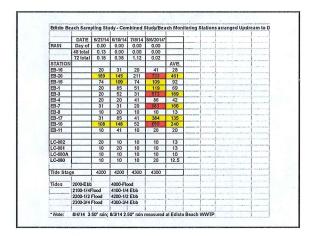


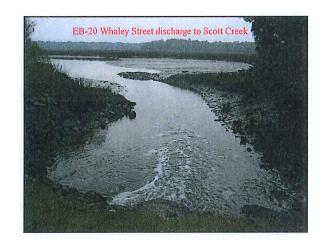






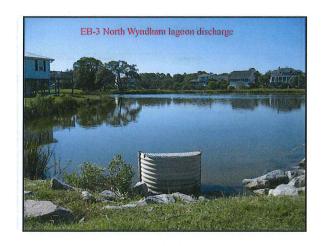


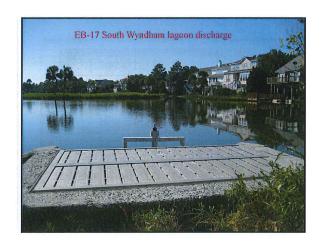




Study Results • "Hot Spots" EB-20 Whaley Street discharge EB-3 North Lagoon discharge EB-7 Middle Lagoon discharge EB-17 South Lagoon discharge EB-10 pipe at ditch from EB-17













EB-10 Flashboard riser next to marina parking lot

- EB-17 South Wyndham lagoon discharges to ditch to EB-10
- In every sampling event, bacteria levels at EB-10 higher than EB-17, though only 385 feet apart.
- "T" in ditch at EB-10 riser pipe, one branch goes to high marsh to lagoon behind Marsh Pointe pool.
- Additional study needed in this area.



Conclusions

- Lagoons were not designed for stormwater treatment.
- Failing septic tanks, sewage leaks, wildlife and domestic animal waste are potential sources of bacteria.
- Infrastructure is old; some pipes undersized; at wrong elevation; filled in with sediment.
- Lagoon banks are overgrown which prevents sunlight from reducing bacteria concentrations.

Conclusions

- Sampling results indicate that bacteria sources entering Scott Creek impact downstream water quality more than those in Big Bay Creek above confluence with Scott Creek (ie. station EB-16 Live Oak Landing).
- Shellfish station 13-01 Scott Creek at shell mound has Restricted harvest classification versus Approved at 13-21 Big Bay Creek at the Neck.

Conclusions

- Sampled inter-connected lagoons in interior lagoon system (EB-20, EB-21, EB-22) and South Wyndham lagoon system (EB-17, EB-18, EB-19).
- In both systems, salinities decrease and bacteria concentrations increase as you go upstream in system.
- Lower salinity water, heavy organic load from leaves, warm water, lack of sunlight allows bacteria to survive.

Conclusions

- Four lagoon system discharges had highest average bacteria concentrations of all sites sampled. Whaley Street two to six times higher than other three lagoon discharges.
- Bacteria concentrations reduced to background levels at next sample station downstream.
- Sample results do not show direct impact of lagoon discharges on beach monitoring stations.

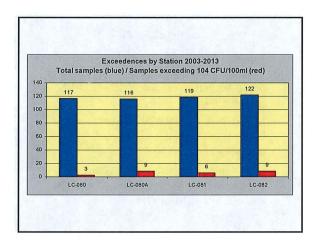


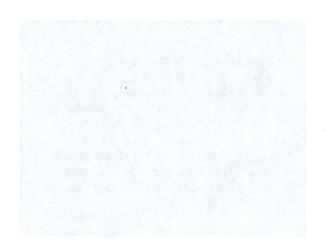
Recommendations

- South Wyndham lagoon discharge pipe has flap gate to limit tidal exchange. Had lowest average bacteria concentration.
- Tidal exchange keeps lagoons full and ready to immediately discharge. Lagoons should fill up after rain events and discharge at controlled rate (water control structures).
- Limiting tidal exchange will increase stormwater detention time, allowing bacteria to die-off and settle out.

Acknowledgements

- Thanks to Town of Edisto Beach and Wyndham Ocean Ridge staff for their assistance with this project.
- Thanks also to Edisto Beach residents who allowed me to sample from their docks.





Recommendations

- Percentage of samples exceeding 104 CFU/100ml is low so maintain Tier 2 status (sample twice per month).
- Work with DHEC OCRM stormwater staff on recommendations for improving lagoon water quality, such as water control structures and water management.
- Sample lagoon discharges and beach stations hourly immediately following significant rainfall events (>2.00")