

BEACH AND SHORE PRESERVATION ADVISORY COMMITTEE

The Indian River County (IRC) Beach and Shore Preservation Advisory Committee (Beach) met at 3:00 p.m. on Monday, July 18, 2011, in the County Administration Building, Building B, 1800 27th Street, Vero Beach, Florida. You may hear an audio of the meeting; review the agenda and the minutes on the IRC website - www.ircgov.com/Boards/BSPC/2011.

Present were Chairman Bob Anderson, Robert Lindsey, Cheryl Gerstner, and David Barney, Board of County Commissioners (BCC) Appointees; Councilman Joel Tyson, City of Fellsmere Appointee; Councilmember Mike Ochsner, Town of Indian River Shores Appointee; and Councilmember Bill Troxell, Town of Orchid Appointee.

Absent was Bill Glynn and Stephen Krasco, BCC Appointees; Mayor Jim Hill, City of Sebastian Appointee; Councilmember Brian Heady, City of Vero Beach Appointee; and Commissioner Liaison Peter O'Bryan (all excused).

Also present were IRC staff: Chris Mora, Public Works Director; James Gray, Coastal Engineer; Rick Herren, Environmental Specialist; and Terri Collins-Lister, Commissioner Assistant, District 4.

Others present were: Carrie Lira, Senator Joe Negron's Office, Marty Smithson, Sebastian Inlet Taxing District (The District); Tem Fontaine, Coastal Technology; Steve Boehning, Coastal Waterways; Henry Stephens, Press Journal; Adam Priest and Maureen Woods, P.E., Maxwell Marine Consulting Engineers, Inc. and Dr. Richard Baker and Christian Hendricks, Interested Citizens.

Call to Order

Chairman Anderson called the meeting to order at 3:00 p.m.

Approval of the Minutes of June 20, 2011

ON MOTION BY Councilman Tyson, SECONDED BY Councilmember Troxell, the members voted unanimously (7-0) to approve the minutes of June 20, 2011 as presented.

Status of the Beach Projects – Mr. James Gray, IRC Coastal Engineer

Mr. James Gray, IRC Coastal Engineer, stated on July 6, 2011, County staff made a formal submittal request to the Federal Department of Environmental Protection's (DEP) Bureau of Coastal Systems for state funding on County Beach Projects. He highlighted on the submittal which included \$163,000 for the Ambersand Project (Sectors 1 and 2) for continued biological monitoring in the event the DEP requires additional monitoring, requested \$6.5 million for bidding, preconstruction services, and post construction monitoring for Sector 3 Beach Project and \$50,000 for the Sector 5 feasibility study.

Mr. Gray gave an update of the following beach projects:

Sectors 1 and 2

- Third Annual Biological Monitoring of Sectors 1 & 2
- Completed to date all but one of the monitoring transects for offshore and 10% of edge of resource mapping along shore.

Sector 3

- The BCC at their July 5, 2011 meeting approved Change Order No. 5 with Ranger Construction at no additional cost to the County. Change Order No. 5 extends the construction contract from May 1, 2010 through May 1, 2011; eliminating any additional mobilization costs including mobilizing dredging equipment as well as eliminates any future fuel adjustment charges and provides pre-payment of stock piled upland sand material. He estimated 108,000 cubic yards remained for Phase II of the Sector 3 Beach Project.
- Currently performing Phase I first year and Phase II medial Post Construction Monitoring.
- Completed to date 100% of offshore monitoring transects and 75% of the edge of resource mapping.
- Completed aerial photography, physical monitoring, and beach profile surveys.
- The County received a Special Use Permit from the Archie Carr National Wildlife Refuge for Phase II Remainder.

Sector 7

- The County was under contract to perform additional physical monitoring and beach profile surveys as discussed at the June 20, 2011 Beach Meeting.

Mr. Rick Herren, IRC Environmental Specialist, reviewed the information contained in his report on sea turtle nesting, a copy of which is on file in the Commission Office. He reported in South County, the total number of nests was above any year since 2005 which was the beginning of the nesting surveys, except for the year 2010 to date. He stated the increase was mainly due to a large number of Loggerhead nesting this year. He noted the sea turtle nests had decreased in the Archie Carr National Wildlife Refuge compared to the previous year, however Southern Indian River Shores and South County showed an increase.

A Presentation by Mr. Adam Priest on his Research of the Vero Beach P.E.P. Reef

Mr. James Gray introduced Mr. Adam Priest and stated he was a graduate of the Florida Institute of Technology. He added Mr. Priest had done his thesis on the Vero Beach P.E.P. Reef and was currently employed with Maxwell Engineering in Key Largo, Florida.

Mr. Adam Priest gave a PowerPoint presentation on his research of the Vero Beach P.E.P. Reef and distributed handouts to the members, *From Failure to Success: Update on the Vero Beach P.E.P. Reef, Indian River County, Florida* and *Reintroducing Structures for Erosion Control on the Open Coasts of America*, copies of which are on file in the Commission Office.

Mr. Priest referred to *From Failure to Success: Update on the Vero Beach P.E.P. Reef, Indian River County, Florida* and clarified "From Failure to Success" meant from a shoreline that was historically erosive to a shoreline that was now stable. He noted P.E.P. stood for Prefabricated Erosion Prevention and in his research he looked at three things:

- Determine whether or not the P.E.P. Reef was functioning to decrease the wave energy reaching the shoreline
- To assess the shoreline changes north and south of the P.E.P. Reef
- To assess the volume changes

He indicated the purpose of the P.E.P. Reef's design was to reduce the amount of wave energy that reaches the shore and create a calmer area so the sand moving down the coast would stay and build up naturally, but it was not

working that way. He summarized the P.E.P. Reef was not working the way it was designed but working in a different way. He felt the P.E.P. Reef was making some impact because there was still sand in the area and even though there had been a change for the most part and the area pretty much remains unchanged. A lengthy discussion followed regarding the shoreline data collected on the P.E.P. Reef.

Update from the Sebastian Inlet Taxing District Commission (The District)

Mr. Marty Smithson reported The District had submitted their application for a permit to increase the capacity of the sand trap in the future, however it would not be approved until the next year, so The District was requesting from the Army Corps of Engineers permission to use existing permits to remove the 90,000 cubic yards of accumulating sand from the trap.

Status of County Parks

Mr. Chris Mora, IRC Public Works Director, reported a fire at Round Island Beach Park destroyed about 15 feet of the 70 foot wooden pedestrian bridge from the parking lot over to the island and would be out of service approximately 60 to 90 days.

Committee Members Matters

There was none.

Chairman Matters

Mr. Anderson brought up the August Beach Meeting and it was the consensus of the committee to cancel the August 22, 2011 meeting.

Commissioner Matters

There was none.

Other Matters

There was none

Adjournment

There being no further business, the meeting adjourned at 4:42 p.m.