

**Please Note:** Indian River County is providing cumulative status updates on the planned Sector 3 Beach Restoration Repair Project – Post Hurricane Sandy. As such, additional information on the project can be found in previous project updates.

## **Sector 3 Beach Restoration Repair Project – Post Hurricane Sandy Update January 30, 2015**

As of November 10, 2014, Guettler (GBC) has placed approximately 100,000 of the estimated 150,000 cubic yards of sand needed to fill the project design template.

- GBC is currently hauling material to Wabasso Beach Park; placing material within the Sea Oaks Community (south of Vero Disney Resort).
- Total linear feet of beach completed to date ~ 20,000 feet of 31,000 (approximately 75% of the total project is completed).
- GBC expects to complete the Wabasso Beach Park section of beach (Summerplace south to Sea Oaks Community) the week of February 16, 2015 and move to Seagrape Trail Beach access to construct the section of beach from Grand Harbor south to Sea Colony.
- Dune planting along all completed sections is expected to begin the week of February 9, 2015.

FDEP Approved Upland sand is currently being supplied from the Davis and Hammond/Blue Goose Sand Mine. The Davis Mine is supplying approximately 60% of the project sand. It appears that Guettler will have an adequate supply of sand to complete the project by mid-March, 2015.

### **Park Closure/ Beach Construction Schedule:**

- **Treasure Shores Park is open.** Aside from dune planting, this section of beach (Treasure Shores Beach Park south to Northern Windsor) is completed.
- **Golden Sands Beach Park is open.** Aside from dune planting, this section of beach (Northern Windsor south to Northern Summerplace) is completed.
- **Wabasso Beach Park is currently closed for dune repairs.** This section of beach (Summerplace south to Sea Oaks) is expected to be completed the week of February 16, 2015. Park expected to reopen by February 23, 2015.
- **Turtle Trail Beach Park is currently closed as the contractor is finishing beach grading and demobilization.** Park expected to reopen by February 2, 2015. When the park reopens only dune planting will remain to be completed.
- **Seagrape Trail is currently opened and is expected to be closed from February 2 – mid-March, 2015.** Closure of the beach park will be necessary for Contractor mobilization of equipment, access area preparations, and dune repairs. Seagrape Trail is the final construction location.



**Photo of the completed dune repair project within the Sea Oaks Community – 1-30-15**

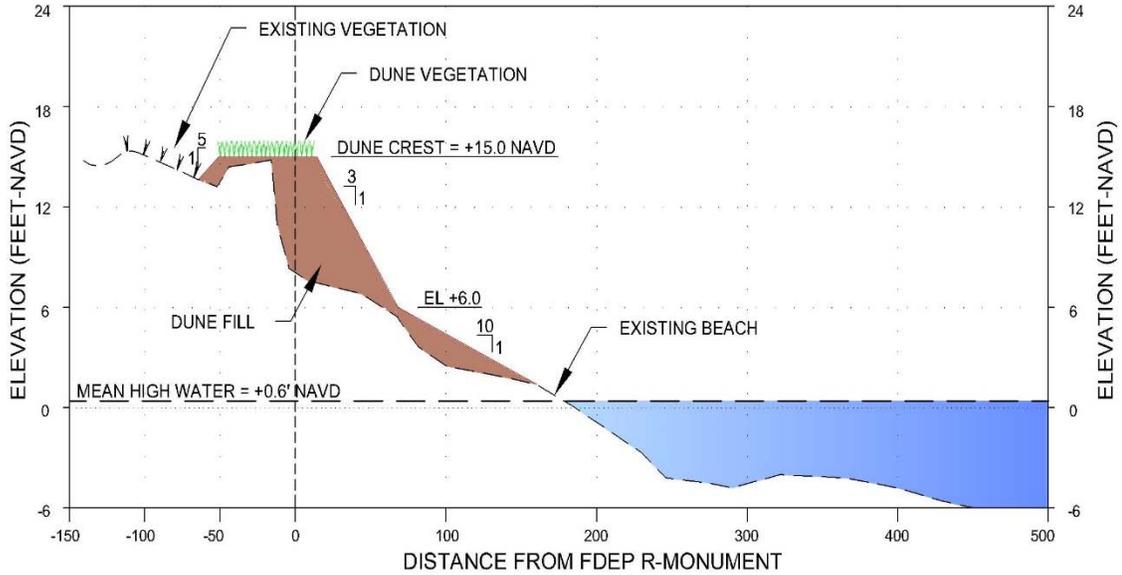
## **Sector 3 Beach Restoration Repair Project – Post Hurricane Sandy Update October 30, 2014**

The County is under contract with Guettler Brothers Construction, LLC to place approximately 155,000 cubic yards of beach compatible sand mined from upland mines west of Wabasso and transported to the beach by dump truck. The project will construct a modest dune feature by placing sand and planting dune vegetation from Treasure Shores Beach Park south to northern John's Island. All construction activities will occur seaward of the current dune vegetation line and above the Mean High Water Line (MHWL) The project will require the use of heavy construction equipment (primarily bulldozers and off-road dump trucks) on the beach. The County has identified Treasure Shores, Golden Sands, Wabasso Beach, Seagrape Trail, and Turtle Trail beach parks as heavy construction access points for the project. As required by permit all sand placement must occur prior to April 30, 2015.

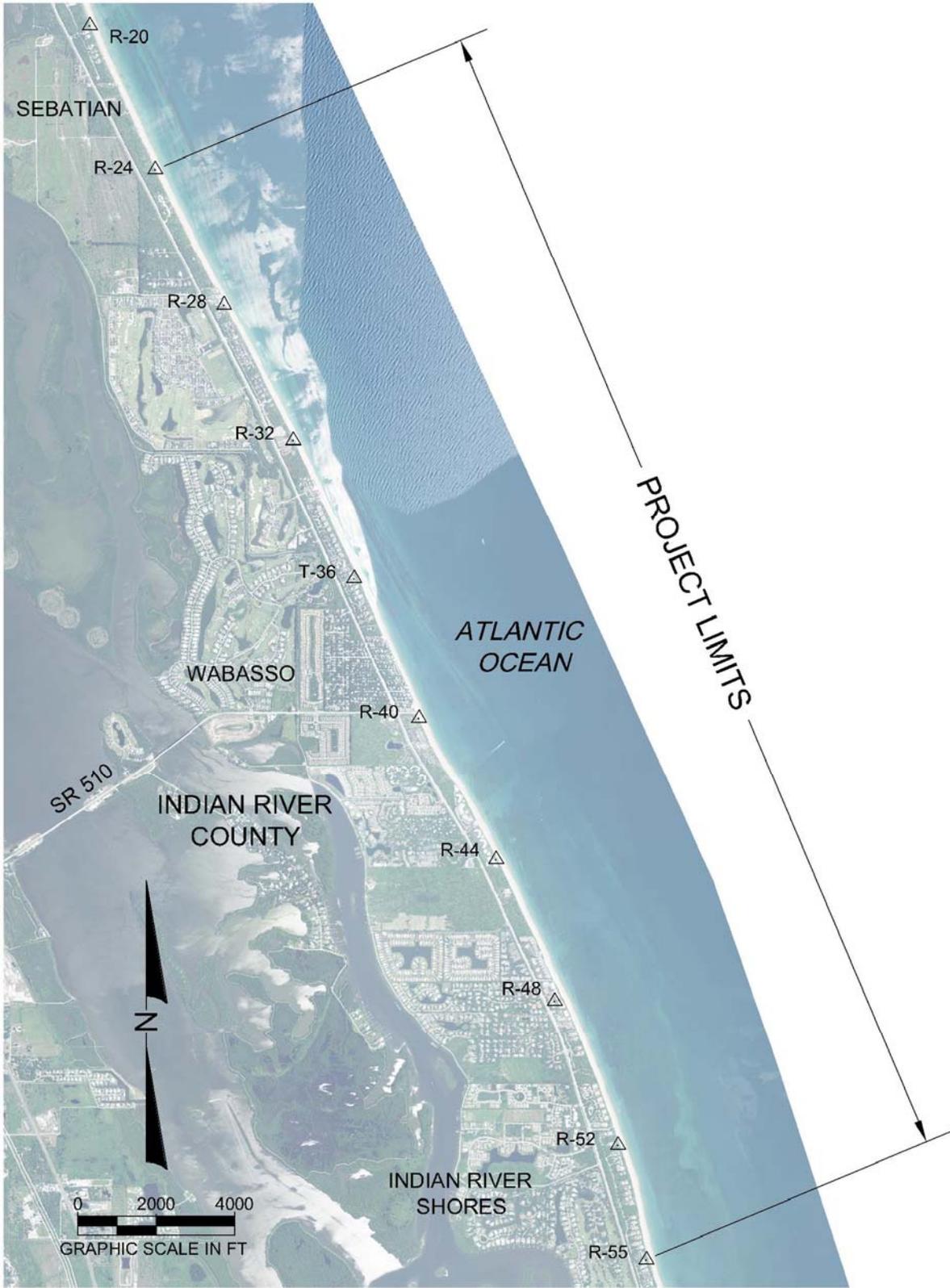
The Contractor expects to construct the Project from the northern boundary working his way south. The project is expected to begin on November 5, 2014, accessing the beach through Treasure Shores Beach Park. For public safety, the County will be closing Treasure Shores Beach Park from November

5, 2014 through December 10, 2014. County staff will be closely monitoring the Contractor's schedule and will notify the public in advance of closing other beach parks.

Below are figures identifying the project boundaries and an example of the project fill template.



TYPICAL FILL CROSS SECTION



## Sector 3 Beach Restoration Repair Project – Post Hurricane Sandy Update July 8, 2014

Following the passage of Hurricane Sandy (October, 2012) the Sector 3 project area sustained damages to the dunes and is need of repair to maintain protection to upland properties and infrastructure from future storm events. The proposed project will repair approximately 31,000 feet of storm damaged dunes by placing approximately 154,700 cubic yards of beach compatible sand landward of the mean high water line (MHWL).

On May 14, 2014, the County advertised the Sector 3 Dune Repair Project, soliciting bids to repair the dunes from either an offshore sand borrow source or from upland sand sources identified in the Florida Department of Environmental Protection (FDEP) Permit.

The bid opening was held on June 16, 2014. Nine (9) bids were received and opened. Upon review, all bidders submitted a bid identifying use of an Upland sand source, with one bidder, Blue Goose Construction, electing to submit separate bids using either an Upland or Offshore sand source. All supporting bid documents are on file and available for viewing in the Public Works Department. A detailed bid tabulation is as follows:

<b>Bidders Name</b>	<b>Location</b>	<b>Offshore Sand Source</b>	<b>Upland Sand Source</b>
Mancil's Tractor Service, Inc.	Stuart, FL	N/A	\$4,165,680.00
Bergeron Land Development	Ft. Lauderdale, FL	N/A	\$5,290,969.39
JP Donovan Construction	Rockledge, FL	N/A	\$3,328,440.00
Ranger Construction Industries	Winter Garden, FL	N/A	\$3,732,213.00
Sunshine Land Design	Stuart, FL	N/A	\$5,397,707.00
Blue Goose Construction	Ft. Pierce, FL	\$3,516,826.00	\$3,516,826.00
Philips & Jordon	Zephyrhills, FL	N/A	\$4,443,640.00
Dickerson Florida, Inc.	Ft. Pierce, FL	N/A	\$3,905,712.00
<b>Guettler Brothers Construction, LLC.</b>	<b>Ft. Pierce, FL</b>	<b>N/A</b>	<b>\$3,076,920.00</b>

On July 8, 2014, the Indian River County Board of County Commissioners awarded a construction contract to Guettler Brothers Construction, LLC. in the amount totaling \$3,076,920.00. The project will be constructed using beach compatible upland sand supplied from the FDEP approved Brian Davis Sand Mine located within Vero Beach, FL. The County's tentative construction schedule is to begin construction November, 2014.

## **Sector 3 Beach Restoration Repair Project – Post Hurricane Sandy Update March 5, 2014**

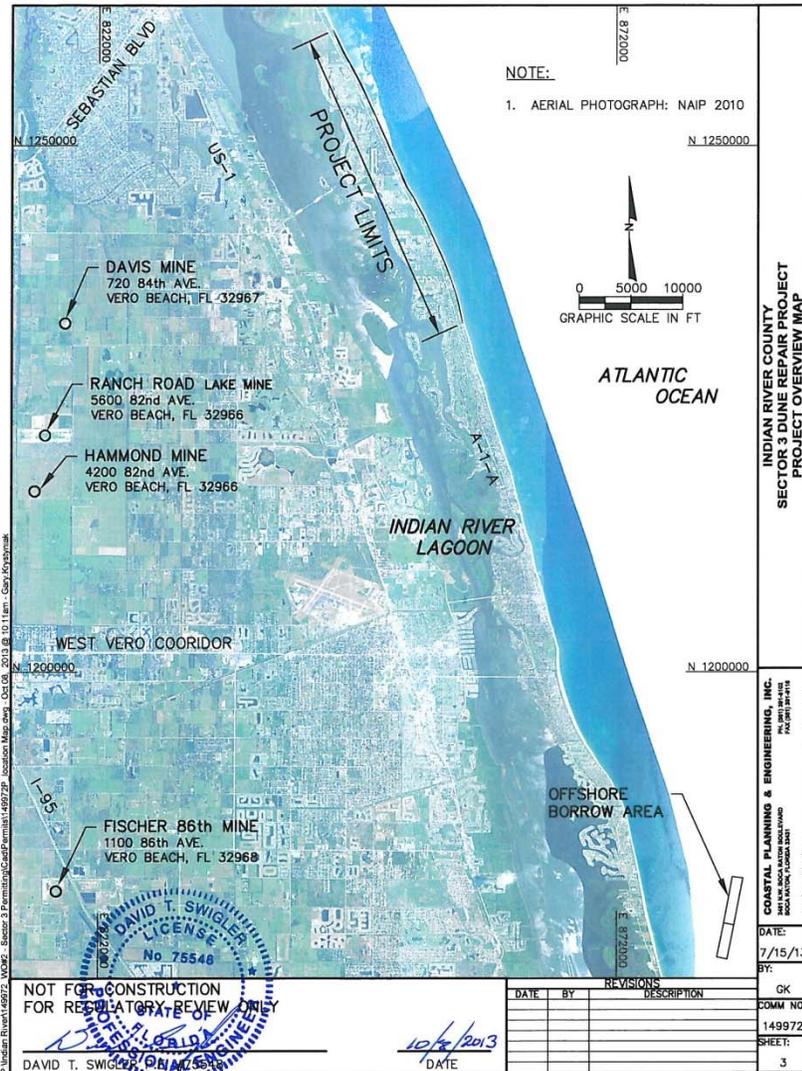
- On January 7, 2014, the County received a fully executed Permit Modification from the USACE.
- On February 14, 2014, the County received a fully executed Permit Modification from FDEP.
- Staff intends to bid the project March/April 2014.
- Staff intends to award a contract May, 2014
- The County’s tentative construction schedule is to begin construction November, 2014.
- Per the permit conditions IRC is required to conduct:
  - 3 years of post construction physical monitoring (beach profile surveys, aerial surveys, and reporting)
  - 2 years of sea turtle monitoring, and
  - 1 year post construction biological monitoring (nearshore reef monitoring)

## **Sector 3 Beach Restoration Repair Project – Post Hurricane Sandy Update December 5, 2013**

- On November 25, 2013, the Florida Department of Environmental Protection (FDEP) deemed Indian River County’s permit application to repair the Sector 3 dunes complete.
- FDEP intends to transmit a formal Notice of Intent (NOI) to issue the permit by the end of the week of December 2, 2013.
- Over the next 30 days FDEP will draft the permit for County and their coastal engineering consultant, Coastal Planning and Engineering (CPE) review.
- The County expects FDEP to issue the permit authorizing construction by mid January, 2014.
- The County’s tentative construction schedule is to begin construction November, 2014.

## **Sector 3 Beach Restoration Repair Project – Post Hurricane Sandy Update November 20, 2013**

As a result of Hurricane Sandy in October 2012, Indian River County received direct impacts to the Sector 3 Beach and Dune Restoration Project, constructed between 2010 - 2012, causing significant beach and dune erosion. For FY 2013/2014, the Department of Environmental Protection (FDEP) received Legislative funding to assist in the recovery of the State’s beaches damaged by Hurricane Sandy. The Sector 3 Beach and Dune Project was identified as an eligible project and will receive 50% or \$2,700,000 of the anticipated \$5,400,000 total project costs to repair the damaged project area. Below is a summary on the current status of the Sector 3 Beach Restoration Repair Project and Figure 1 identifies the location of the project.



**Figure 1: Location of the Sector 3 Beach Restoration Repair Project**

**Sector 3 Project Losses attributable to Hurricane Sandy (2012)**

- Total sand placement during the initial Sector 3 Beach and Dune Restoration Project ~ 560,600 cubic yards.
- Loss of ~186,000 cubic yards attributed to Hurricane Sandy above and below Mean High Water (MHW)
- Volumetric loss to the dunes and upper berm (above MHW) ~ 154,700 cubic yards (between R-24 and R-55)
  - From R-20 – R-24 the majority of sand placement was below MHW therefore we are not proposing additional sand placement in this area during the upcoming repair project.

## Proposed Sector 3 Repair Project Volumes

- Repairs proposed between R-24 (Treasure Shores Park) and R-55 (Northern John's Island) – Approximately 6 mile project area
- Staying within the template permitted in 2010
- All fill to be placed above MHW (Figure 2 provide a representative example of the proposed design template)
- **Total Fill proposed = approximately 154,700 cubic yards or 5 CY/ shoreline Ft**

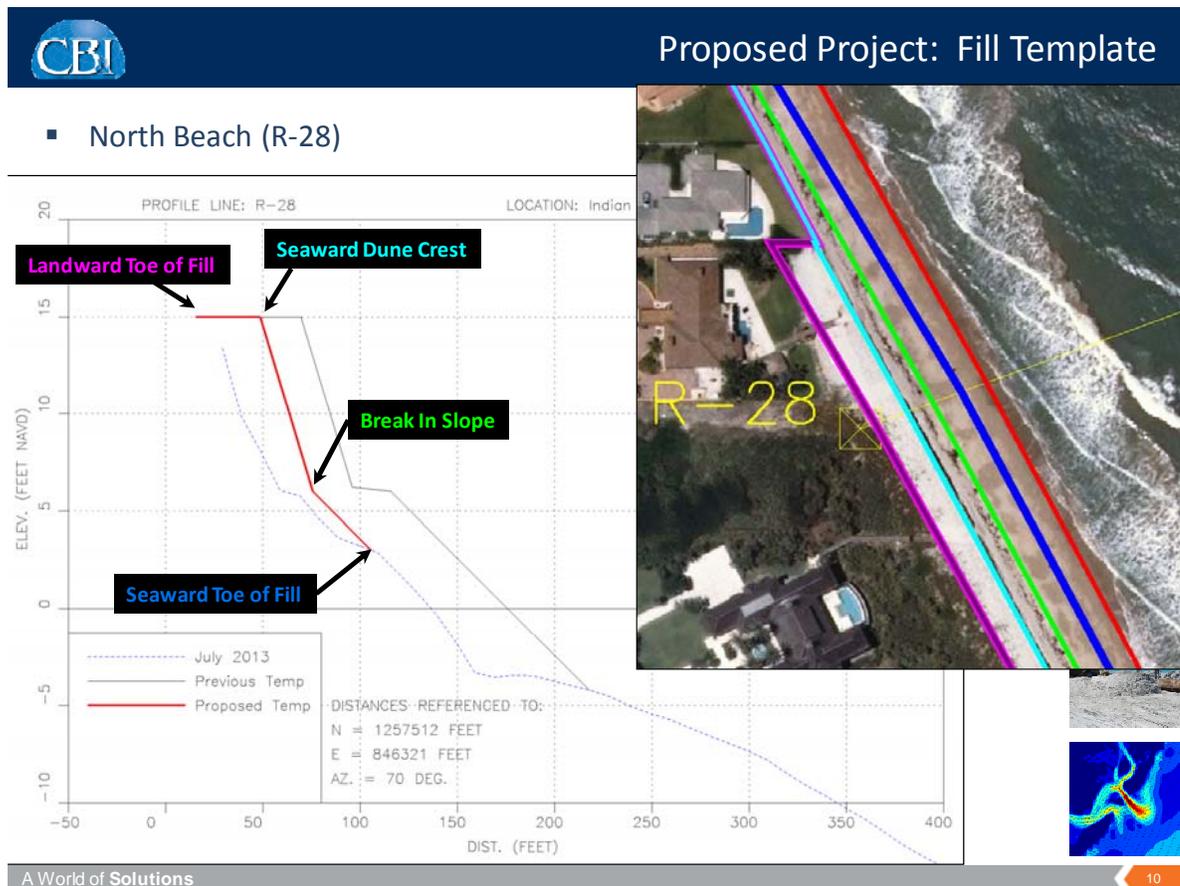


Figure 2: Representative example of the design template

## Sector 3 Repair Project State (FDEP) and Federal (USCAE) Permit Status

- **FDEP Permit** – On October 18, 2013, IRC and Coastal Planning and Engineering (CPE) staff conducted a pre-permit application meeting with FDEP.
  - FDEP agreed to process our permit request as a minor modification to our existing Sector 3 Joint Coastal Permit, FDEP Permit File No. 0285993-008-JN.
  - The Permit Modification Files can be viewed at:
    - [ftp://ftp.dep.state.fl.us/pub/ENV-PRMT/indian\\_r/pending/0285993\\_Beach\\_and\\_Dune\\_Restoration/008-JN/Mod%20Request/](ftp://ftp.dep.state.fl.us/pub/ENV-PRMT/indian_r/pending/0285993_Beach_and_Dune_Restoration/008-JN/Mod%20Request/)

- The Permit Application Date was October 24, 2013 and has a mandatory 14 day public comment period until November 13, 2013. By statute FDEP has until November 22, 2013 to make a determination to issue a modification of our existing permit or request additional information. Note: if FDEP requests additional information (RAI) it starts an additional 30 review period.
- **USCAE Permit --** On October 18, 2013, IRC and CPE staff notified the USCAE of our proposed project and FDEP's intent to issue a minor permit modification.
  - On October 21, 2013 and October 24, 2013, IRC staff had a conference call with USCAE and USFWS to discuss the proposed project.
    - USCAE and USFWS agreed to process our permit from the Federal side if IRC agreed to comply with the conservation measures, reasonable and prudent measures, and the terms and conditions outlined in both the Programmatic Biological Opinions for Sea Turtles and Shorebirds. In short, compliance agrees to conduct 2 years of additional sea turtle and shorebird monitoring ~ \$150,000 / year.
    - To speed the application along, On October 28, 2013 IRC staff agreed to use and comply with both Programmatic Biological Opinions.
      - Note: if we challenged use of the Programmatic Biological Opinions we could risk delay of Federal permit compliance by a minimum of six months. Also, staff did not see any relief from agreeing to 2 years of additional monitoring if we wanted a permit.
    - On November 8, 2013, USFWS transmitted a draft decision regarding the project Sector 3 Repair Project. The Draft Decision discusses the above mentioned required biological monitoring, etc. and is also required for the issuance of the FDEP Permit Modification.

### **Sector 3 Repair Project Bidding and Construction Schedule**

- **Bidding --** Staff instructed CPE to begin developing the Contract Documents and requested that they be ready for bidding by the end of November 2013. This would allow approximately 3-4 months of construction (January – April 2014)
- **Status of Upland Sand –** Note the current (Nov. 2013) sand (beach compatible) stockpiles:
  - Ranch Road Lake Mine – no available sand at this time, approximately 120-150 K CY may be available following dredging and processing
  - Davis Mine – approximately 15 K CY available at this time, 70 K CY stockpiled and ready for screening. Awaiting regulatory approval for use.
  - Fischer 86<sup>th</sup> and 17<sup>th</sup> Street Mines – approximately 4,000 – 5,000 CY available at this time.
  - Hammond Mine – approximately 150 K CY stockpiled and ready for screening, currently screened 5,000 CY stockpile for granulometric testing and review. Material appears to be consistent with the FDEP approved sediment QA/QC Plan. Awaiting regulatory approval for use.
- **Status of Offshore Sand –** Sufficient beach compatible sand is available, awaiting regulatory approval for use.
- **Anticipated Construction Schedule** – Staff intends to be bid the project December 2013 and be ready for construction early 2014 construction.

- Since the current availability of Upland Sand and regulatory approval is unknown at this time, staff intends to have a base bid to construct early 2014 and an alternative bid to construct Nov 2014 – April 2015.