

# Town of Surfside

## Sand Committee Meeting

Presented by:

CB&I Coastal Planning & Engineering

August 5, 2014



- Background
- Options
  - Immediate
  - Short term
  - Medium term
  - Long term
- Recommendations

- SC Property Acquisition, LLC (Surf Club) excavated within property bounds as part of construction
- Obtained an FDEP permit to perform the work
- The permit requires them to keep sand material seaward of the Coastal Construction Control Line (CCCL)
- Placed approximately 14,130 cubic yards of material between R-32 (95<sup>th</sup> St) and R-36 (88<sup>th</sup> St.)
- Material placed April 1 to April 16.
- 1.5-foot layer above mean high water to base of vegetated dune

2012



Surfside 2012



April 1, 2014

04/01/2014

Apr 01 2014



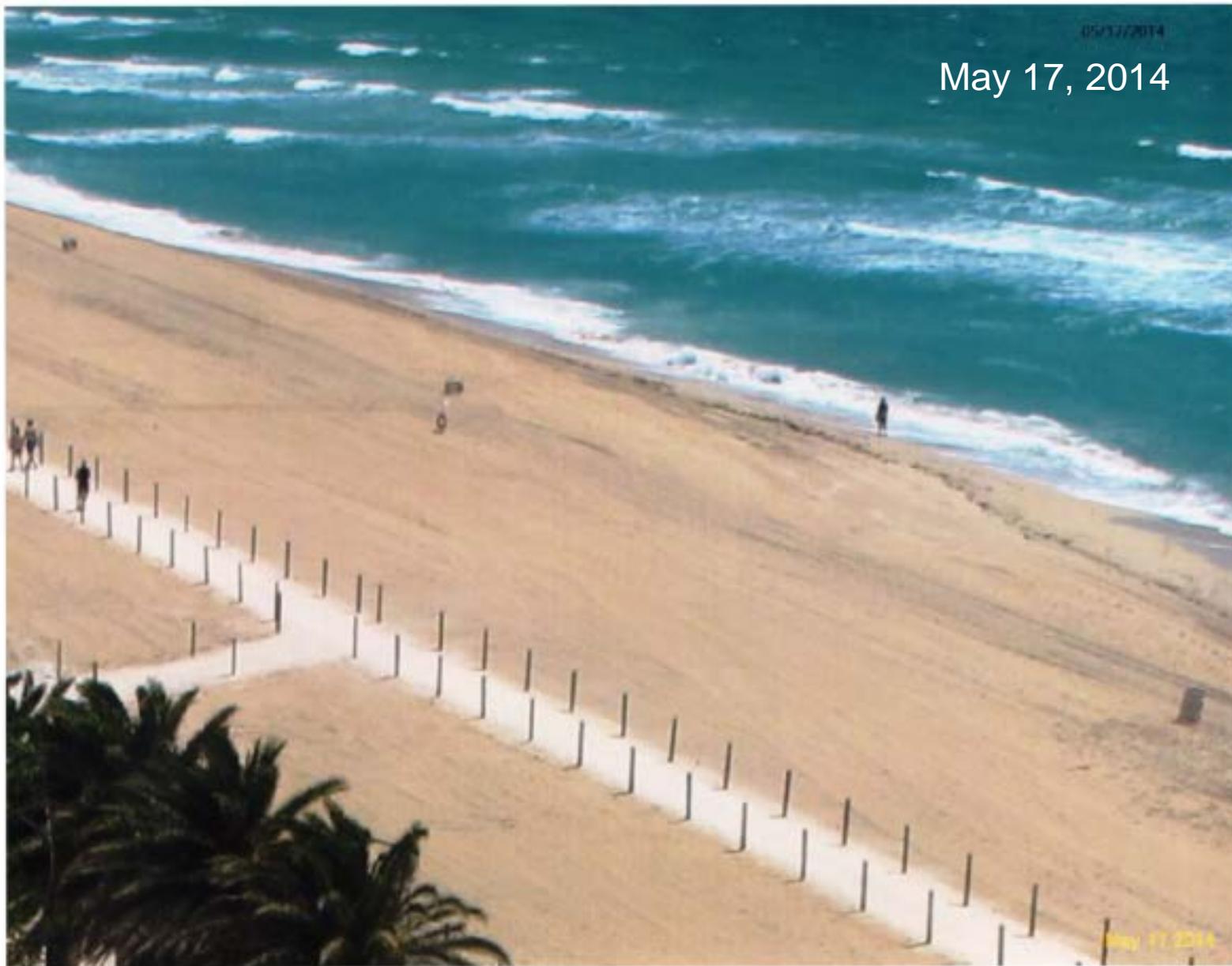
April 2, 2014

Apr 02 2014



April 16, 2014

04/16/2014



May 17, 2014

05/17/2014

May 17, 2014

July 31, 2014



July 31, 2014



- FDEP determined some material non-compliant due to exceeding maximum grain size
- Surf Club has remediated material
- FDEP approval pending
  
- FDEP stated that fill met requirements for:
  - Silt content (less than 5%)
  - Grain size
  - Carbonate content
  - Color
  
- Color is expected to lighten with time

- Immediate options
  
- Essentially none
  - No work is allowed on the beach (except for knocking down escarpments) prior to November 1 due to sea turtle nesting

- Short Term Options
  - November 1, 2014 through April 30, 2015
  
- No action
  - Existing sand should get lighter with exposure to elements
  - Natural mixing of new sand with previously placed sand should lighten the color of the beach
  
- Till the beach





- Short Term Options
  - November 1, 2014 through April 30, 2015
  
- No action
  - Existing sand should get lighter with exposure to elements
  - Natural mixing of new sand with previously placed sand should lighten the color of the beach
  
- Till the beach
  - Mechanically mix the new sand and previously placed sand
  - “Average” the color of the two sands
  - Town submitted a permit to perform this type of work
  - Relatively easy to obtain permission to do this
  - \$750/ac

- Scrape the new sand off and place it in the dunes or at street access areas
  - Could perform this in “thin lifts” to avoid burying existing vegetation
  - Sand would have to be retained seaward of CCCL
  
- Cover the new sand with more sand from an upland source
  - Could use significantly lighter colored sand
  - Close to maximum template, which could limit effectiveness
  - Adds more sand to the system
  
- Scrape, remove and replace the new sand
  - Could use significantly lighter colored sand
  - A significantly more expensive option (~\$1M)

- Scrape the new sand into the ocean
  - Re-expose the previous sand
  - Far more involved from a permitting perspective (could turn into a medium term option)
  - Sand could still get washed back up onto the beach
  - Deflates beach elevation (prefer to maintain beach elevation from a storm protection perspective)
  
- Scrape the new sand off and place it below mean high water in Bal Harbor or Miami Beach
  - Removes sand from Surfside, which is not recommended
  - Recommend placing it in Bal Harbor as the sand transport is predominantly south so Surfside would benefit later
  - Location based on capacity of beach at disposal location and may be at County's discretion

- Medium Term Options
  - 2015-2016
  
- Obtain permit to place future sand below mean high water
  - The Town should retain as much sand within its borders as it can
    - Miami-Dade County has expended readily available offshore sand resources
  - Request Surfside be added as an area included in County's existing permit
    - The County has a permit to place sand below MHW in 6 specific areas but Surfside is not included as an approved area

- Longer Term Options
  - 2017 & beyond
  
- Support County's beach nourishment efforts
  
- Support continued bypassing efforts at Haulover Inlet

- Monitor change in beach color
- Revise permit requests for beach tilling and beach scraping
- Approach County to request revising their permit to allow placement of material seaward of mean high water in Surfside

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