Coastal Management:

Treasure Island - Long Key - St Pete Beach
Nourishment Project - 2014

Sunshine and Sunset beaches on Treasure Island and Upham and Pass-A-Grille Beaches on St Pete Beach have now been completed.

The total construction costs for this nourishment project is $16,182,000.00.

Treasure Island - $10,823,500.00
Upham Beach - $3,354,934.50
Pass-A-Grille Beach - $2,003,565.50

A total of approximately 555,000 yd³ of sand will be used.

Sunshine Beach - 75,000 yd³ - Actual quantity - 66,892 (finished)
Sunset Beach - 215,000 yd³ - Actual quantity - 232,407 (finished)
Pass-A-Grille - 125,000 yd³ - Actual quantity - 140,053 (finished)
Upham Beach - 140,000 yd³ - Actual quantity - 156,748 (finished)

This page will be updated as additional information becomes available.

Project Schedule:

Schedule by Locations (all locations are finished)
Central Sunset Beach Fill Map
North Sunset Beach Fill Map
South Sunset Beach Fill Map
Treasure Island / Sunshine Beach Fill Map
Central Pass-a-Grill Fill Map
North Pass-a-Grill Fill Map
South Pass-a-Grill Fill Map
Upham Beach Fill Map

Project Information Notice:

Treasure Island Long Key Nourishment Project Update (finished)
Treasure Island Long Key Information Notice
Public Meeting
<table>
<thead>
<tr>
<th>R No.</th>
<th>City</th>
<th>Street</th>
<th>SEG</th>
<th>GULF BLVD ADDRESS</th>
<th>DIRECTION OF ACTIVE WORK AREA MOVEMENT</th>
<th>ACTUAL FILL DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-126B</td>
<td>TREASURE ISLAND - SUNSHINE BCH</td>
<td>127TH Ave.</td>
<td>1</td>
<td>12650</td>
<td>NORTH END</td>
<td>20-Jul-14</td>
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<tr>
<td>R-126C</td>
<td>TREASURE ISLAND - SUNSHINE BCH</td>
<td>126TH Ave.</td>
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<td>12616</td>
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<td>R-127</td>
<td>TREASURE ISLAND - SUNSHINE BCH</td>
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<td>12459</td>
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<tr>
<td>R-127A</td>
<td>TREASURE ISLAND - SUNSHINE BCH</td>
<td>123RD Ave.</td>
<td>1</td>
<td>12310</td>
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<td>R-128</td>
<td>TREASURE ISLAND - SUNSHINE BCH</td>
<td>121ST Ave.</td>
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<td>12126</td>
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<td>R-128A</td>
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<td>R-136</td>
<td>TREASURE ISLAND SUNSET BCH</td>
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<td>R-136A</td>
<td>TREASURE ISLAND SUNSET BCH</td>
<td>Blind Pass Rd.</td>
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<td>R-138</td>
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</tbody>
</table>

2014 Treasure Island - Long Key Beach Renourishment Project
R Monument - Street - Address Reference

Revised August 27, 2014
FINAL UPDATE

Filled Locations shown in yellow highlight
Pipe Corridor Locations shown with light blue highlight

<table>
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<th>ACTUAL FILL DATE</th>
</tr>
</thead>
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<td>LKBP-1B</td>
<td>LONG KEY - UPHAM BEACH</td>
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<td>LKBP-4</td>
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CENTRAL SUNSET BEACH ACTUAL FILL DATES - SUNSET BEACH FILL COMPLETED ON 3 AUGUST 2014
NORTHERN SUNSET BEACH ACTUAL FILL DATES - SUNSET BEACH FILL COMPLETED ON AUGUST 3, 2014

End of Sunset Beach fill - Filled Aug. 3

Filled Aug. 2

Filled Aug. 1
SUNSHINE BEACH - PROGRESS MAP BY FILL LOCATION - AS OF JULY 21, 2014 (FILLING COMPLETED JULY 20, 2014)

- FILLED JULY 6
- FILLED JULY 7
- FILLED JULY 8
- FILLED JULY 15
- FILLED JULY 18
- FILLED JULY 19
- FILLED JULY 20
- END OF FILL
- PIPELINE LANDING - START OF FILL ON JULY 6
SOUTH PASS-A-GRILLE BEACH - ACTUAL FILL DATES BY LOCATION - AS OF AUGUST 13, 2014

Filled August 9
Filled August 10
Filled August 11
Filled August 13
Pipeline landing location - filled Aug 5

Filled Aug 14

Filled Aug. 13
2014 Treasure Island Long Key Nourishment Project

Project Overview

- Project Type – Beach Fill (~555,000 cubic yards)
- Type of Dredge – Hydraulic Dredge
- Construction Cost - $16,182,000
- Construction Administration – U.S. Army Corps of Engineers (Corps)
- Construction Contractor – Weeks Marine, Inc.
- Current Status – Nourishing Sunshine Beach
- Proposed Completion – between September 2014

July 11, 2014 – Initial pumping of sand began on July 6th at 4 PM near 121st Street. Equipment problems the next two days resulted in pumping interruptions (starts and stops): Stopped on July 7th at 3 PM, started July 9 at 3 AM, stopped July 10 at 10 AM at station 718 (123rd Ave). Pumping is expected to resume later today. The beach is currently fenced off from 122nd to 125th Avenues.

July 25, 2014 - Pumping halted Wednesday July 16th 10 AM due to weather. The Sunshine Beach segment was finished on July 20th. Pumping began on Sunset Beach July 21st finishing the south segment on July 24th and began the central segment. Weeks Marine has decided to do the Pass-A-Grille Segment before they do the Upham Segment.

July 30, 2014 - Pumping ceased Monday due to equipment problems and weather near R138.5. Pumping resumed July 30th.

August 5, 2014 - Sunset Beach was finished August 3, 2014. The beach was cleared of equipment by Monday August 4, 2014. They began mobilization to Pass-A-Grille Monday and began pumping around 6:30 PM August 6, 2014. Thus far they have completed 800 ft of beach fill at Pass-A-Grille.


August 12, 2014
Down for weather 2 days of work left

August 22, 2014
400ft left on Upham. Fill should be completed over night.

August 27, 2014
The nourishment of Upham was completed at 3:00 AM August 23. Tilling for sunset beach was completed August 26.
Treasure Island & St. Pete Beach (Long Key) Beach Nourishment
Expected Duration: May 2014 to August

TENTATIVE PROJECT SCHEDULE
- Mobilization: Early May - Early June
- Sunshine Beach: Late May - Mid June
- Sunset Beach: Mid June - Early July
- Upham Beach: Early July - Late July
- Pass-A-Grille Beach: Late July - Early Aug
- Completed September 30, 2014 (Latest)

PROJECT SUMMARY
- Project Type: Beach Fill; Hydraulic Dredge, 24” cutterhead
- Estimated Sand Volume: 555,000 yd³; Const. Cost. $16,182,000
- Construction Administration: U.S. Army Corps of Engineers
- Construction Contractor: Weeks Marine Inc.
- Local Sponsor: Pinellas County

CONSTRUCTION
- Sunshine Beach: Approximately 127th Av - 120th Ave W
- Sunset Beach: Approximately Blind Pass Rd. - 77th Ave
- Upham Beach: Approximately 71st Ave - 67th Ave
- Pass-A-Grille: Approximately 23rd Ave - 1st Ave
- Sand Source: Egmont Shoal ~8,000 ft offshore
- Sand piped from near-shore barge onto beach
- Construction activity on beaches will operate 24 hours a day. Expect noise & lights dusk - dawn. Safety backup alarms are exempt from noise regulations, please be patient.
- The active beach construction areas will be closed to the public.
- Sand ramps will provide safe public access over pipes to the shoreline.

Pinellas County contact: John Bishop (beaches@pinellascounty.org)

WEB LINK FOR PROJECT UPDATES:
http://www.pinellascounty.org/environment/coastalMngmt/treasure_island.htm
2014 Treasure Island and Long Key Beach Nourishment

John Bishop, Ph.D.
Coastal Manager

e-mail: beaches@pinellascounty.org
727/464-8766
Topics

- Why Nourish Our Beaches
- County Managed Beaches
- TI/LK Nourishment History
- Funding
- Project Team
- USACE Project Presentation
Why Nourish Our Beaches
Most Important Reason!

1. Storm Protection
   – Saves Lives
   – Upland Infrastructure
   – Property
STORM PROTECTION
SUNSET BEACH
STORM PROTECTION!

Upham Beach, 1994

Pass-A-Grille, June 2012
Sunset Beach

Prenourishment
9-1-10

Postnourishment
10-1-10
Sunshine Beach

4-1-10

8-11-10

9-1-10
Upham Beach

Pre-Nourishment 1994

Pre-Nourishment Sept 15, 2010

Post Nourishment Nov 1, 2010
Pass-A-Grille Beach

- One-mile Long Public Beach
- Highly Erosive 1940s-50s
- Groins & Seawall Installed by 1960s
- County Management Began in 1980s
- Accreted Beach Stabilized with Sea Oats in late 1980s
- Nourishment History
  - 1986: (post Elena) : 73,000 yds$^3$, Pass-A-Grille Channel
  - 1991: 100,000 yds$^3$, Blind Pass
  - 2004: (post storms): 95,000 yds$^3$, Pass-A-Grille Channel
Pass-A-Grille Beach

June 25, 2012

June 26, 2012

Photos by Dr. Ping Wang, USF Dept. of Geology
2. Pinellas County Tourism (Data Research Services, Inc. Analysis for 2009)

- 74.2% of Visitors Come for the Beaches
- $2.794 B - Total Economic Impact
- Over 35,800 - Jobs Supported
- $88.4 M - State & Local Taxes Paid
Another Reason to Nourish Our Beaches…

3. Environmental Benefits

- Habitat
  - Marine Turtles
  - Shorebirds
County Managed Beaches

- Honeymoon Island
- Sand Key
- Treasure Island
  - Sunshine Beach
  - Sunset Beach
- Long Key
  - Upham Beach
  - Pass-a-Grille Beach
- Mullet Key (Ft. DeSoto Park)
Non-Federally Authorized Project

Honeymoon Island

State Funding
• Construction 100%
• Non-construction 75%
  (design, permitting, etc.)
Federally Authorized Projects

Sand Key

Treasure Island

Long Key

Funding
~60% Federal
~20% State
~20% County
Treasure Island

Nourishment History

• 1969
• 1971, 1972, 1976, 1978
• 1991, 1996

Current Nourishment Interval
~4 Years
Long Key

Nourishment History

Upham Beach
- 1980, 1986

Pass-A-grille
- 1986
- 1991
- 2004

Current Nourishment Interval
~4 Years
Treasure Island and Long Key (TI/LK) 2014 Nourishment Project Area
TI/LK 2010

Sunshine and Sunset Beach

- 7,000 feet
- 253,000 cubic yards of sand
- Sand Source: John’s Pass
- $3.5 million
TI/LK 2010

Upham Beach

- 2,000 feet
- 160,000 cubic yards of sand
- Sand Source: Blind Pass
- $1.73 million
Treasure Island Nourishment

Starting Location

Sunshine Beach 127th Ave.
TI/LK 2014
Nourishment
Sunshine Beach
127th Ave.
TI/LK 2014

Project Funding
Treasure Island
• 58.0% Federal
• 42.0% Non-Federal

Long Key
• 60.8% Federal
• 39.2% Non-Federal
Coastal Management Program Funding from Tourist Development (Bed) Tax

One-half of Third Penny
~ $3 million
Annual Revenue
TILK 2014 Project Team

• Pinellas County
  - Local Sponsor

• U.S. Army Corps of Engineers (USACE)
  - design, permitting, construction

• Construction Contractor for USACE
  - WEEKS MARINE, INC.
QUESTIONS

John Bishop, Coastal Manager  727- 464 - 8766
e-mail: beaches@pinellascounty.org

Web Link to Updates:
http://www.pinellascounty.org/environment/coastalMngmt/treasure_island.htm