

STUMP PASS' GOLDEN EGGS

AKA

THE BIRDS ARE BACK IN TOWN

Michael Poff



Missy Christie & Kevin Edwards



**CHARLOTTE COUNTY EROSION
CONTROL PROJECT
2006**

POST-STORM RECOVERY & MAINTENANCE

**LOCAL, REGIONAL, STATE & FEDERAL
PARTNERSHIP**



SHORE BIRD JOKES

- ❖ **Why do Seagulls Live Near the Sea?**
- ❖ **Because if they lived near the Bay, they would be called Bagels...**

Laughing Gull





SHORE BIRD JOKES

- ❖ Why do birds fly south for the winter?
- ❖ Because it is too far to walk...





SHORE BIRD TOP TEN LIST

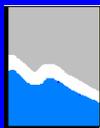
You might be a birder if...

- ❖ You know the early arrival date of every shorebird but can't remember your anniversary
- ❖ You've added semipalmated and pileated to your spell checker
- ❖ You get pulled over for drunk driving at 9 am cause you were watching a flock of kinglets
- ❖ You don't blush when you say Bushtit
- ❖ You care that there are more than one race of Canada Goose
- ❖ Your binoculars cost more than your car
- ❖ After a diversity training course at work you file a complaint because a painting in the hall lacks Blue Phase Snow Geese
- ❖ You refer to lingerie as breeding plumage
- ❖ You can accept that Wile E Coyote defies the law of gravity and survives being smashed by a 2 ton rock, but can't get past the fact that the Roadrunner's vocalization is incorrect
- ❖ You go to a nude beach with a spotting scope and spend all day trying to identify alcids



INTRODUCTION

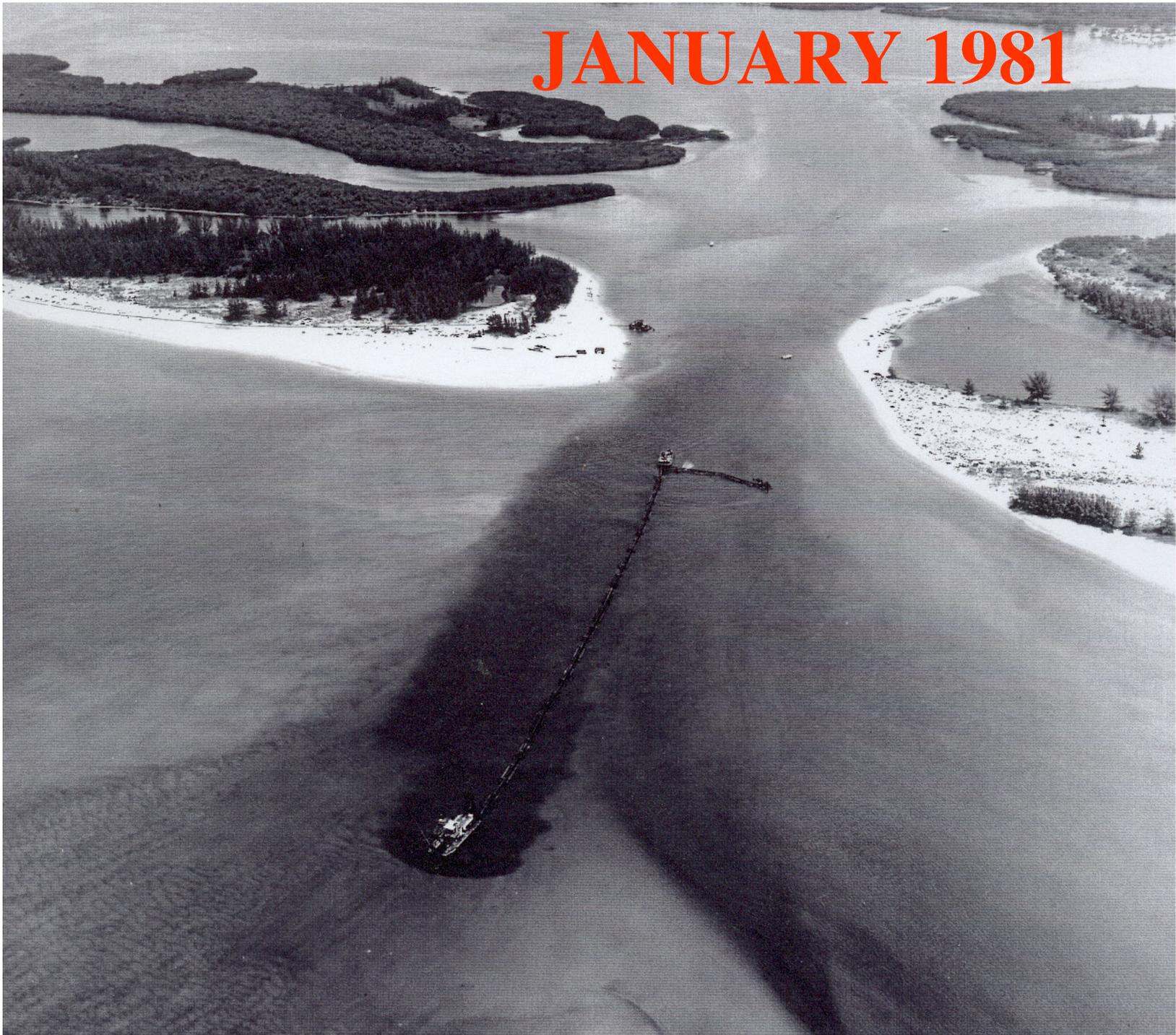
- ❖ Stump Pass' *Sordid* History
- ❖ 2003 Initial Construction
- ❖ Wilson & *The Golden Egg*
- ❖ 2006 Post-Storm Recovery & Maintenance
- ❖ Dredging Details
- ❖ *Wilson & The Golden Eggs*
- ❖ Summary

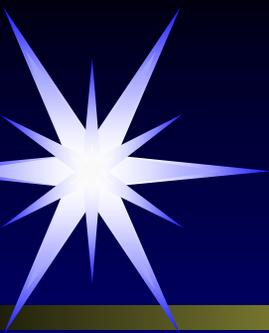


NOVEMBER 1978



JANUARY 1981





HISTORY

- ❖ 1990 Inlet Management Study
- ❖ 1992 BOT Denied Consent of Use
- ❖ 1994 Palm Island's Private Funded Project
- ❖ 1998 Interim Dredging
- ❖ 2000 Inlet Management Study
- ❖ 2002 Regional Beach Erosion Study
- ❖ 2003 Erosion Control Project



COASTAL ENGINEERING CONSULTANTS



“WILSON”

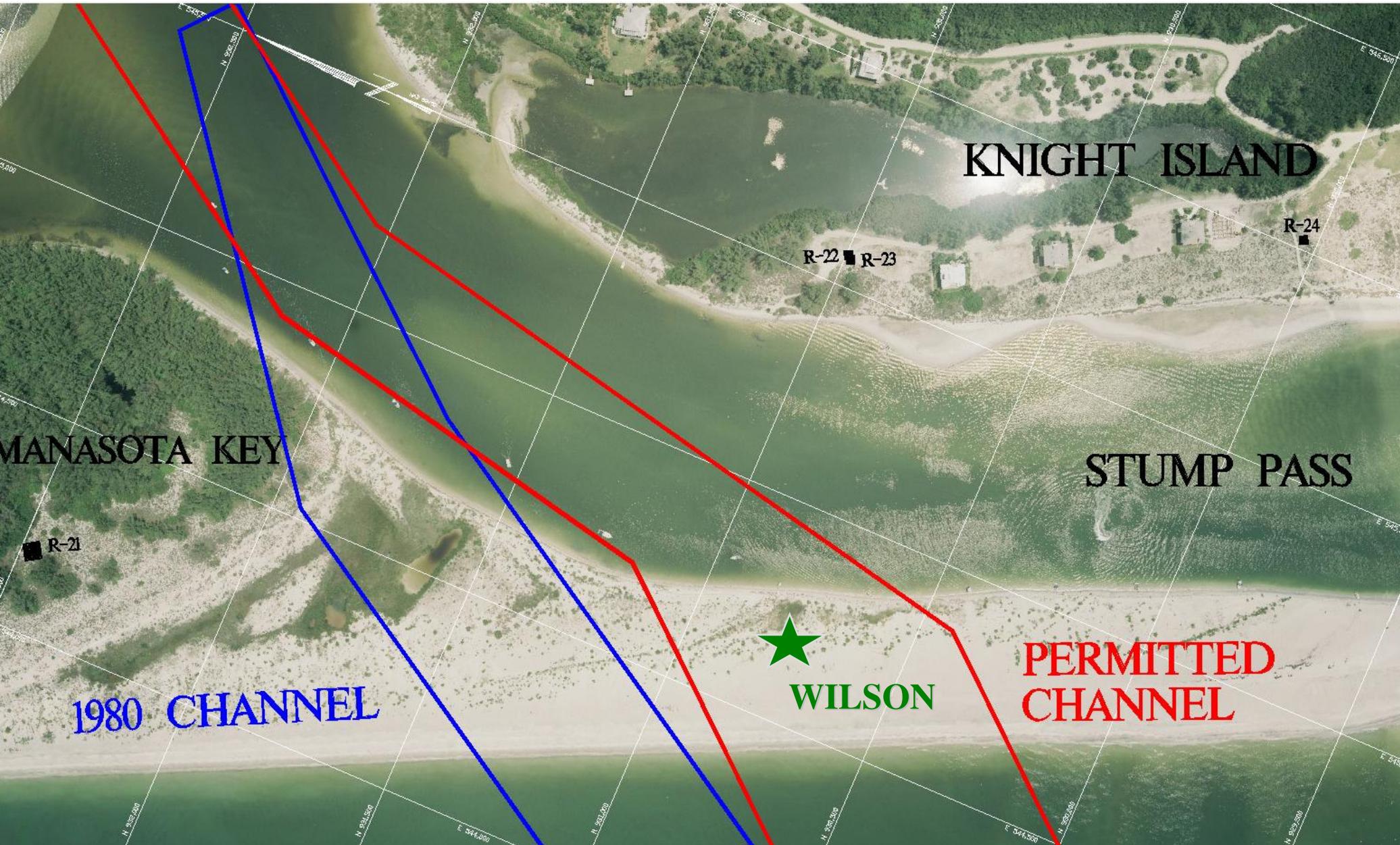
- ❖ **March 20, 2003, Pre-Construction Meeting**
- ❖ **FWC Imposed Pre-Construction Bird Survey**
- ❖ **Monitors Discovered Wilson Plover Pair & Egg**
- ❖ **Migratory Bird Treaty Act**
 - **Protects Shorebirds Including Plovers**
 - **No Incidental Take Provisions**
- ❖ **Project Came to Abrupt Halt**



MOMMA

EGG





KNIGHT ISLAND

MANASOTA KEY

STUMP PASS

1980 CHANNEL

★
WILSON

PERMITTED CHANNEL

R-21

R-22 R-23

R-24



APRIL 3, 2003

WILSON





2006 POST-STORM RECOVERY

- ❖ Experienced 50% loss of initial construction volume due to 2004 and 2005 Hurricane Impacts
- ❖ County eligible for and awarded FEMA monies
- ❖ Mob/Demob + Storm Damage Volume = 90% FEMA
- ❖ Storm Damage/Maintenance Volumes = 5% / 45% State Including Post-Storm Recovery and BECP sources
- ❖ Storm Damage/Maintenance Volumes = 5% / 55% Local





STUMP PASS CHANNEL

BEFORE

DURING

March 2006



© CEC



May 2006

© CEC



CONSTRUCTION ELEMENTS

- ❖ **Dredging Window: February 22nd to June 8th**
- ❖ **Knight & Don Pedro Island's Gulf-front = 298K CY for Storm Recovery & Maintenance**
- ❖ **Knight Island North = 6K CY for Storm Recovery**
- ❖ **Manasota Key/State Park Beach = 45K CY for Maintenance & 111K CY for Advanced Mitigation**
- ❖ **Dredged Permitted "Dog-Leg" Channel**
- ❖ **2+ Acres of Dunes / Channel Markers**





MANASOTA KEY STATE PARK



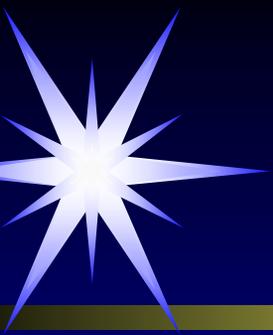
BEFORE

March 2006



AFTER

May 2006



MANASOTA KEY STATE PARK

May 2006





ENVL PROTECTION MEASURES: SHOREBIRDS

- ❖ Daily Surveys during Construction
- ❖ Construction Travel Corridors
- ❖ Buffer Zones
- ❖ Pedestrian/Boater Travel Corridors
- ❖ Habitat Creation (Mitigation)
- ❖ Protection Signs
- ❖ Predator Removal
- ❖ Weekly Surveys after Construction



**What About us Crabs?
Don't We Have Rights Too?**



COASTAL ENGINEERING CONSULTANTS



STUMP PASS CHANNEL

BEFORE

DURING



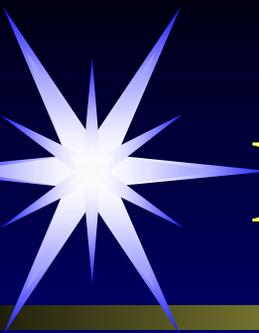
March 2006

CEC



May 2006

© CEC



DREDGING DETAILS

- ❖ **Engineer's Opinion of Cost = \$4.1 Million**
- ❖ **Average Bid = \$4.5 Million**
- ❖ **Low Bid = \$3.9 Million by Marinex Construction**
- ❖ **30'' Hydraulic Dredge ~ Hampton Roads**
- ❖ **Average Pumping Distance ~ 12,000 ft**
- ❖ **Average Production Rate ~ 6K – 8K CY / day**
= 200 feet of Beach / day





KNIGHT ISLAND GULF FRONT

BEFORE

DURING



March 2006



May 2006



SHOREBIRD NESTING SITES

NORTH SIDE – MANASOTA KEY



SOUTH SIDE – PALM ISLAND



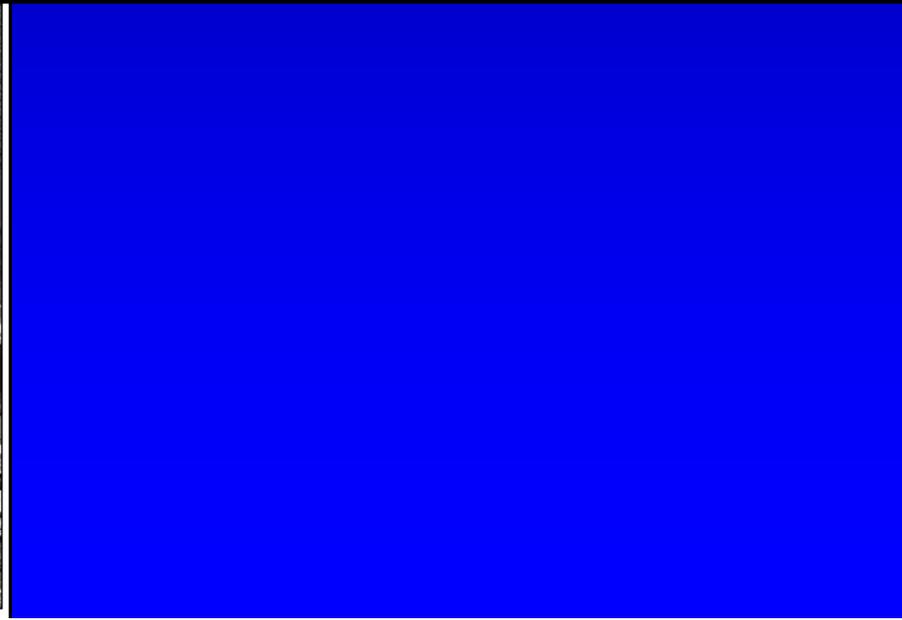
2003

Cut



- Military Nests**
-  Killdeer - 1
 -  Snowy Plover - 3
 -  Wilson's Plover - 2
-  Least Tern Colony - Est 185

2003				
Nesting Shorebirds	Adults	Fledged	Nests	Eggs
Least tern	>400	30	242	60
Snowy plover	8	2	4	4
Wilson's plover	13	8	7	16



2004



2004				
Nesting Shorebirds	Adults	Fledged	Nests	Eggs
Black skimmer	355	0		
Least tern	>200	>11	200	
Snowy plover	8	3	4	8
Wilson's plover	28	18	14	29

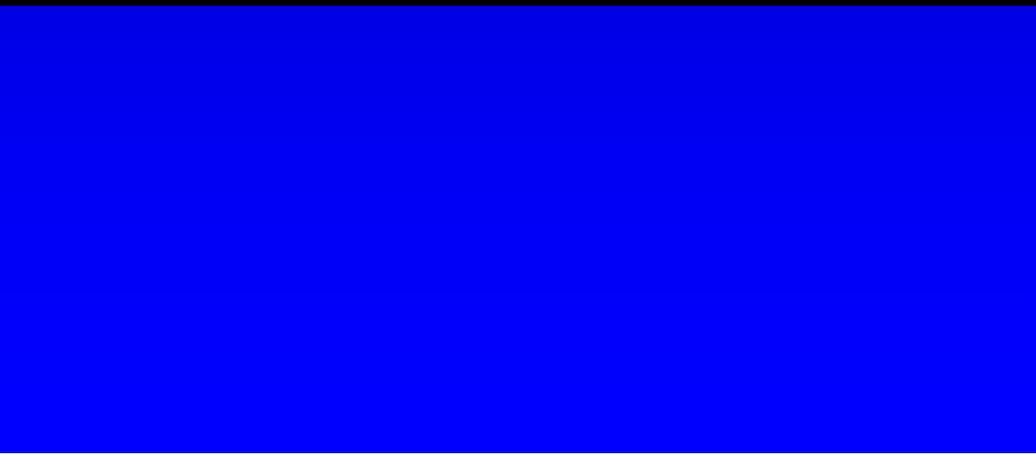
Stump Pass - Knight Island
 Bird Monitoring Activity
 August, 2004

Scale: 0, 250, 500, 1,000 Feet

Nest Locations

- Wilson's Plover - 34
- Snowy Plover - 4
- Least Tern Colony - Est 220

12/14/2005 11:31:28 AM
 Keith Edwards
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2005



2005	Adults	Fledged	Nests	Eggs
Nesting Shorebirds				
Black skimmer	>400	1	25	25
Least tern	>400	16	70	26
Snowy plover	15	4	7	7
Wilson's plover	26	11	17	21

2006



2006	Adults	Fledged	Nests	Eggs
Nesting Shorebirds				
Black skimmer	>1100	0	18	
Least tern	>365	21	315	46
Snowy plover	6	5	3	9
Wilson's plover	18	8	8	15



SHOREBIRD MITIGATION AREA

POST-CLEARING / PRE-DREDGING

POST-CLEARING / DURING DREDGING



March 2006

CEC



May 2006

© CEC



MITIGATION AREAS

SHOREBIRD HABITAT CREATION AREA

WETLAND CREATION AREA

June 2006



5 - Vegetation cover - Mitigation site

3-4-06 Wetland Creation Area
Time zero - Looking West

March 2006



4 8:57 AM





STUMP PASS' GOLDEN EGGS

- ❖ Clear It
- ❖ Grub It
- ❖ Scrape It
- ❖ Burn It
- ❖ Till It
- ❖ Pray For It
- ❖ **THEY WILL COME!**





WILSON'S CHICKS

**FLORIDA BEACH PROGRAM'S FIRST EVER
ARTIFICIALLY CREATED SHORE BIRD HABITAT
A SUCCESS STORY!**



ACKNOWLEDGEMENTS

- ❖ Charlotte County BCC & Staff
- ❖ DEP Beaches & Coastal Systems
- ❖ State Lands & State Park
- ❖ COE, FWS & FFWCC
- ❖ Marinex Construction Co.
- ❖ Local Stakeholders
- ❖ Local Monitors: Brenda, Tom & Gayle, Dr. Jack and Kevin
- ❖ Consulting Team ~ Coastal Tech & CEC