

Balance Between Growth & Natural Resources: Northeast Florida Regional Airport

July 19, 2013

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PRESENTATION TO THE
FIRST COAST CHAPTER OF THE



FPZA
FLORIDA PLANNING AND
ZONING ASSOCIATION

PA

PASSERO ASSOCIATES
engineering architecture

Runway Safety Area Stabilization and Mitigation at NFRA (St. Augustine)

July 19, 2013







**Pre-Construction:
RSA
(Eroded Shoreline,
2,750 LF)**

RSA (Eroded)





**Mid-Project: ACB Mat
Installation
(Stabilized Runway Safety
Area 2,750 LF)**

RSA

Adjacent
Marsh



**Pre-Construction:
Spoil/Scrub Island
2011: (50 Years After
Creation)**

Spoil Island

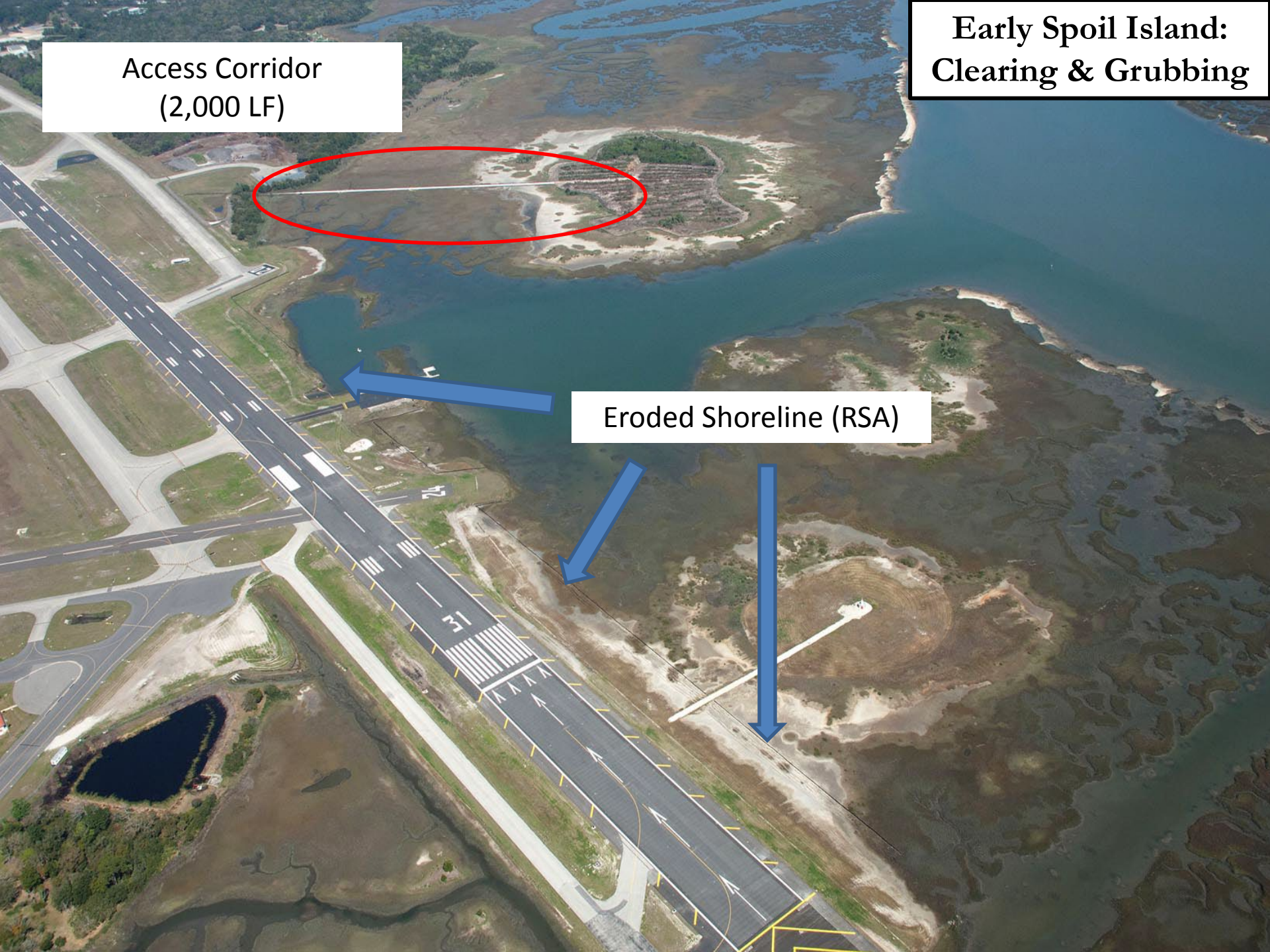




Access Corridor
(2,000 LF)

Early Spoil Island:
Clearing & Grubbing

Eroded Shoreline (RSA)



**“Floating” Access
Corridor Underway**

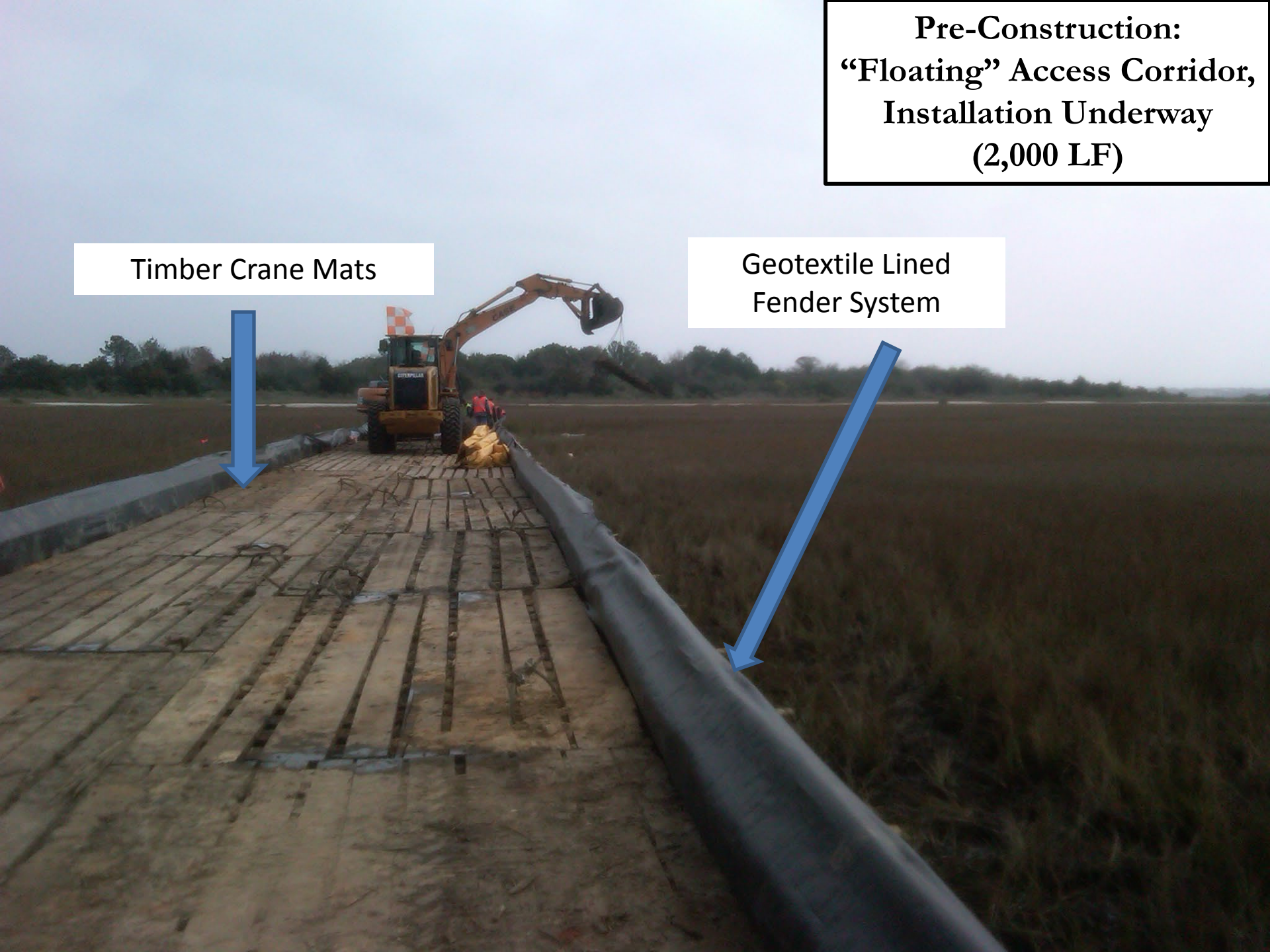
Geotextile
Containment Lining



**Pre-Construction:
“Floating” Access Corridor,
Installation Underway
(2,000 LF)**

Timber Crane Mats

Geotextile Lined
Fender System



**Completed Access
Corridor: Complete**

Open Water Ways
remained available with
no turbidity at any time



**Spoil Island:
Clearing, Grubbing &
Re-Use
(18 Acres)**



Mid – Project: Components

Tidal Channel Underway



Haul Route
At No Time Impacted Airport
Operation



Recycled Materials
Stockpile



**Recycling Site:
(During
Construction)**

Structural Fill (from island), to be used for future taxiway construction (or other)

Mulch (from island), to be used for airport and community needs

Topsoil (from island), to be used for future taxiway construction (or other)



Mid – Project: Active Recycling & Re-Use



Topsoil

Mulch

Suitable
Fill

**Hand Planting:
177,000 Plants
(Creating new saltwater
marsh and living
shoreline)**



**Living Shoreline
Preparation:
Oyster Collecting
(on Boats)**



**Hand Planting
Oysters
(Creating Living
Shoreline)**



**Living Shoreline
Established
(2,750 LF)**

ACB Mat
(beneath)

Established
Oysters



Runway Safety Area: Nearing Completion

ACB Mat
Installation
(underway)

RSA after
ACB Mat
Installation





**Spoil Island Completion:
Saltwater wetland/fish
habitat restored**





Results: Recycling and Spoil Island

Former Spoil
Island:
Now Restored

Access Corridor removed:
Wetland recovering

New Tidal
Channel:
Flowing

Recycled Materials Stockpile Site





Trivia 1:

of permitting, land and administrative actions-approvals needed (for this work)?



Trivia 2:

*Total \$-value of completed project,
mitigation, etc.?*



Trivia 3:

*# professional services firms
involved?*



