

# Ports as Environmental Stewards

presented to

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by

George F. Isiminger, P.E.

Senior Director of Engineering, Maintenance and Environmental  
Affairs

Port Manatee

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# Environmental Stewardship

- We are environmental stewards

# Environmental Stewardship

- Agenda
  - ~~Snail Darter~~



# Environmental Stewardship

- We are environmental stewards
  - We must build with care for the environment

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- Customers demand it

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- Customers demand it
- Laws, regulations, permits, master plans require it
- It's good for business
- How much?
  - Net environmental benefit
- What is Port Manatee's approach to implementation?

# Implementation

- Capitalize the cost
- Plan ahead
- Minimize the impact
- Refine the gain
- Market

# Port Manatee Navigation and Berth Improvements



# Mitigation



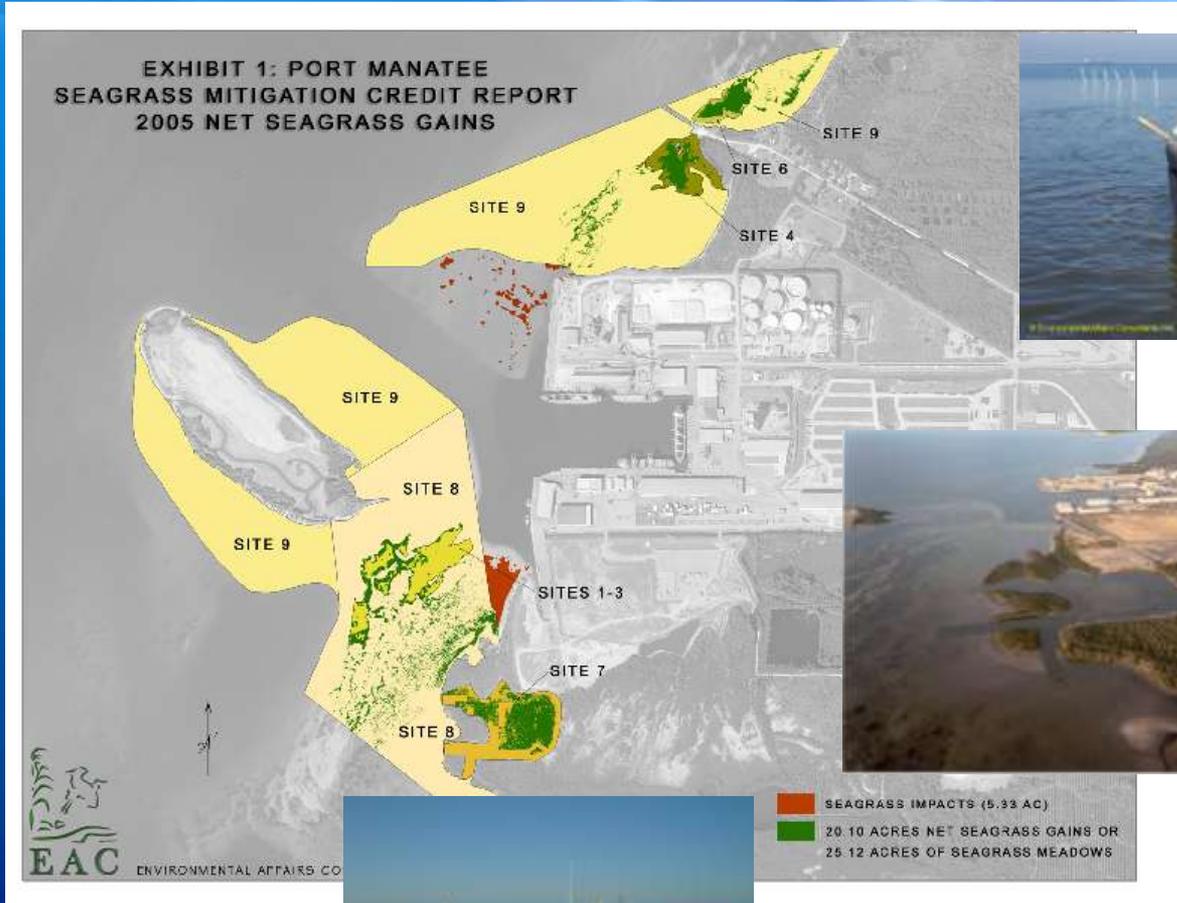
# Mitigation



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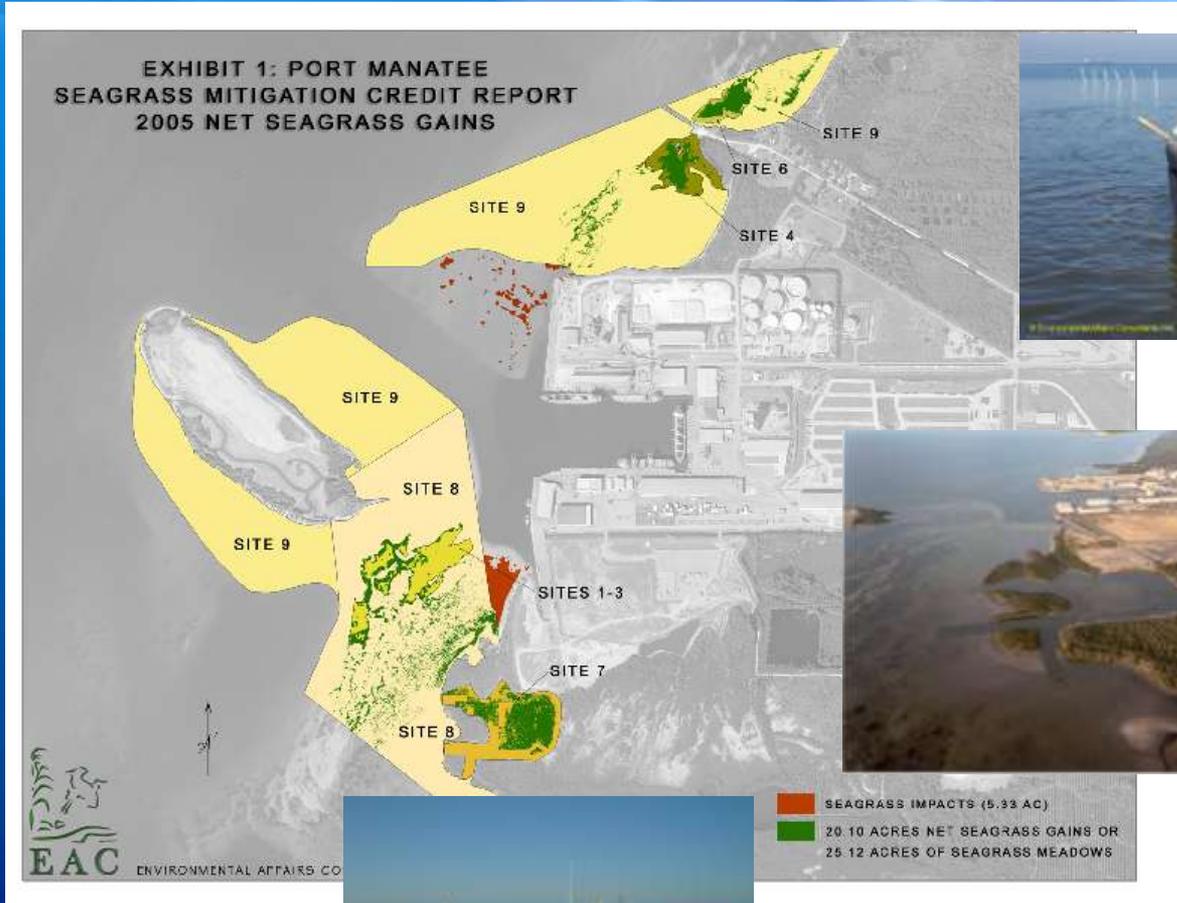
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# Port Manatee Navigation and Berth Improvements



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# Capitalize the Cost

- Improve the environment through mitigation under capital improvement projects

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- Improve the environment through mitigation under capital improvement projects
- Apply grants
- Partner with private investors

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# Plan Ahead

- Permitting takes time

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- Impacts/mitigation time lag requires higher mitigation credit ratios

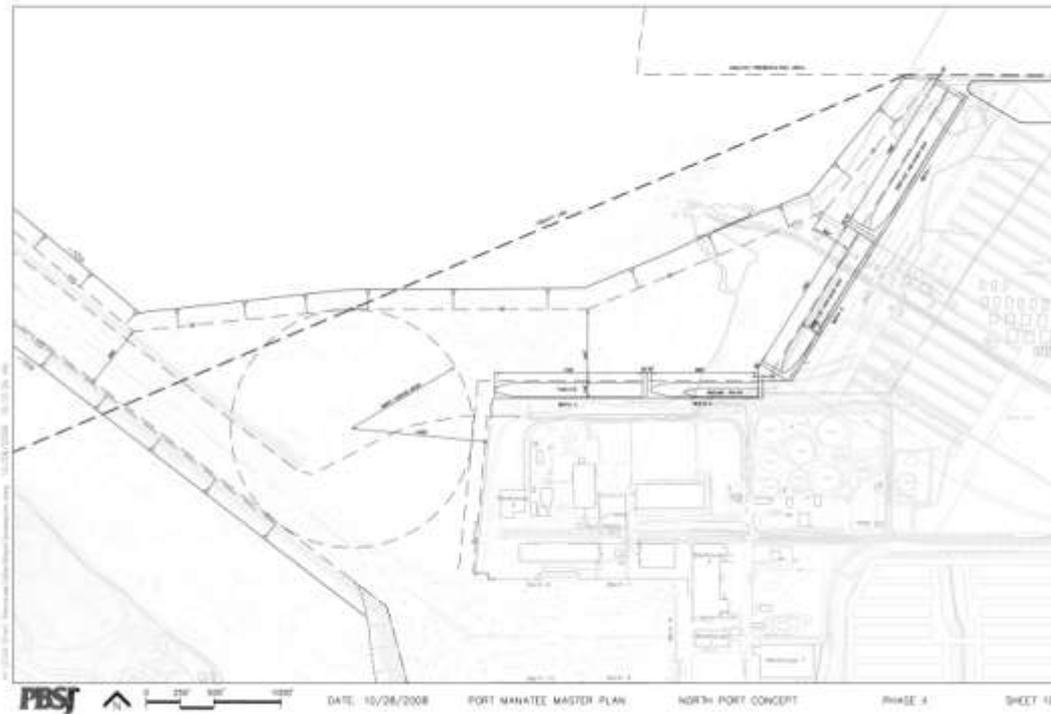
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- Avoid overbuilding

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- Permitting takes time
- Impacts/mitigation time lag requires higher mitigation credit ratios
- Avoid overbuilding
  - Or roll over credits

# Plan Ahead



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# Minimize the Impact

- Use the permit process to your advantage

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- Use the permit process to your advantage
- Define the project goal carefully
- Tweak the construction scope

# Minimize the Impact



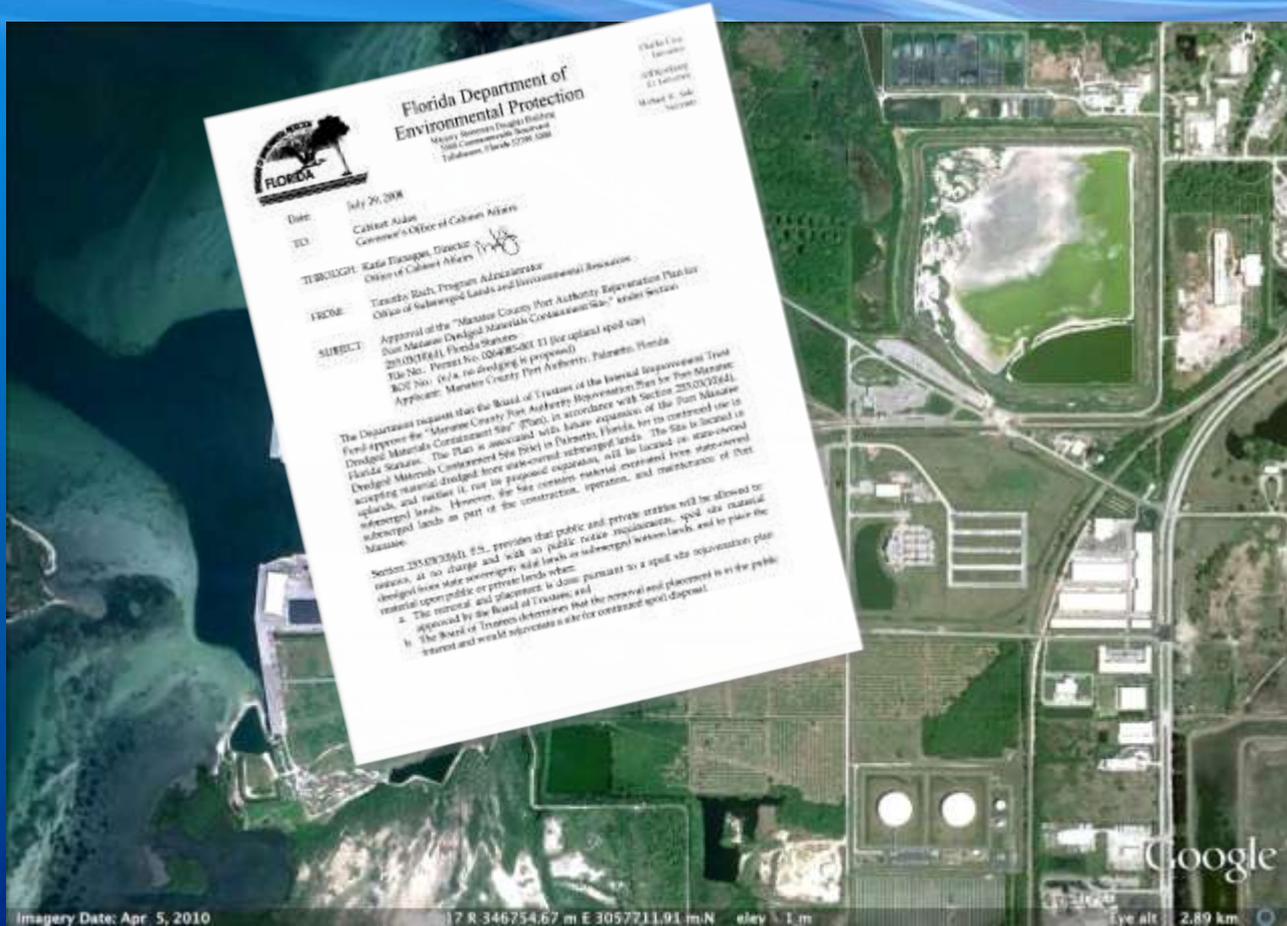
# Minimize the Impact

- Use the permit process to your advantage
- Define the project goal carefully
- Tweak the construction scope
- Make environmentally sensitive dredge disposal work

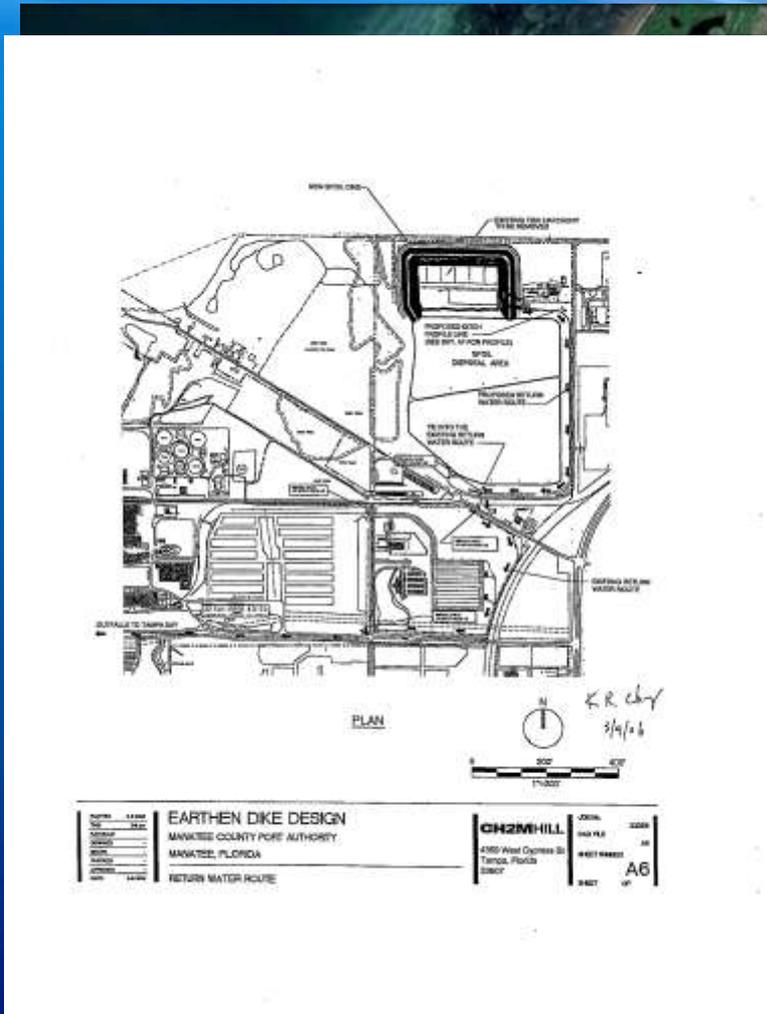
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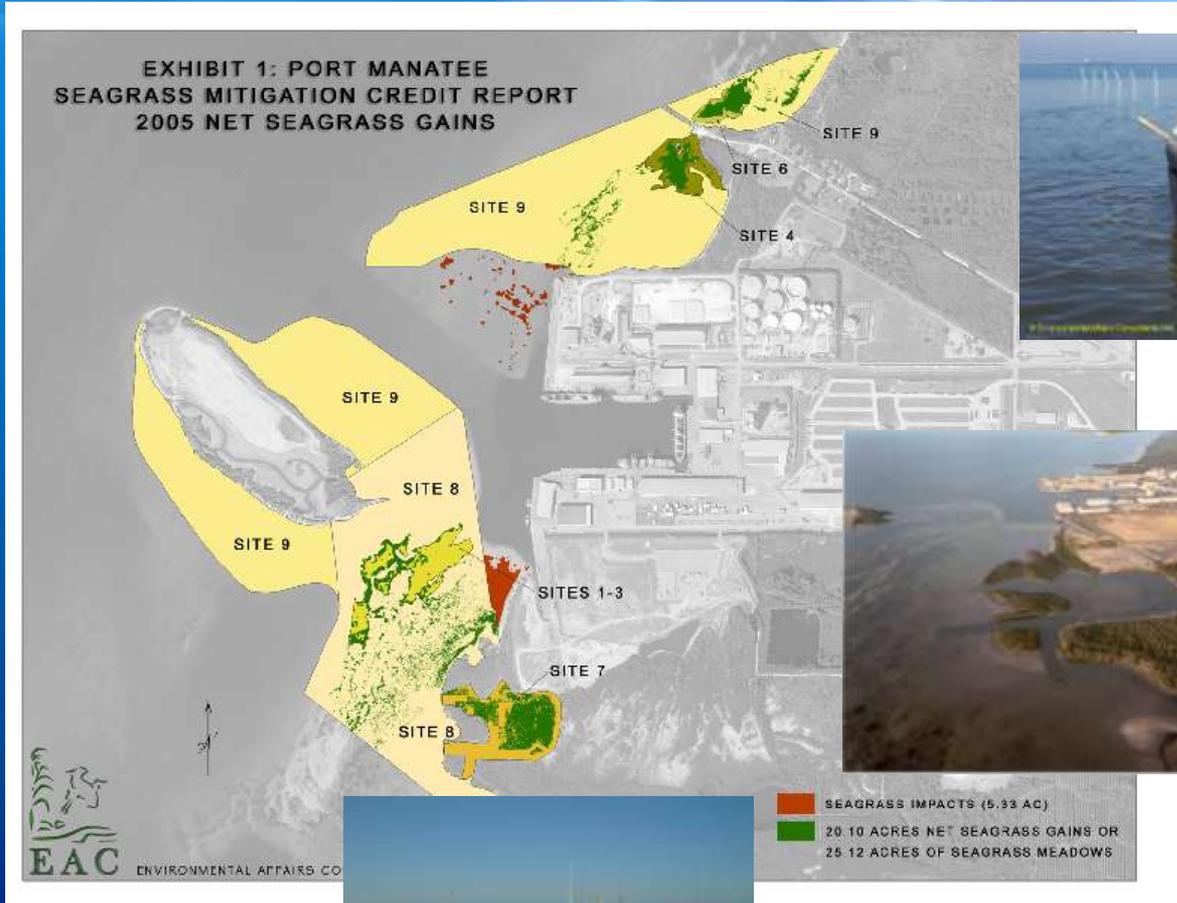
# Implementation

- Capitalize the cost
- Plan ahead
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- Refine the gain
- Market

# Refine the Gain

- Use the permitting process to your advantage

# Refine the Gain

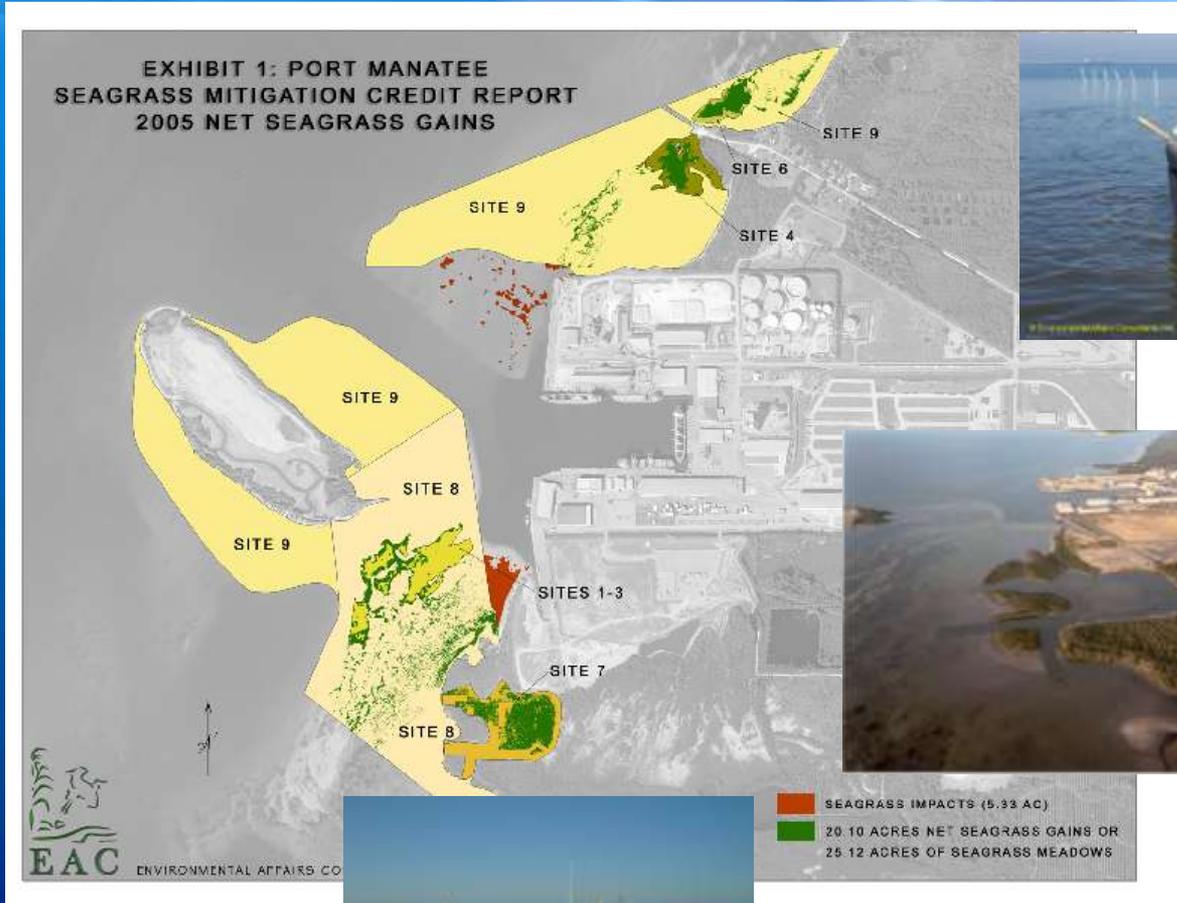


# Refine the Gain



Figure 1. The Giga Unit Transplant System (GUTS). (Photo by M. O. Hall.)

# Refine the Gain



# Refine the Gain



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# Marketing

- Get the message out

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- Get the message out
- Participate in environmental forums

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- Get the message out
- Participate in environmental forums
- Compete for awards

# Recap

- We are environmental stewards
- Environmental stewardship is good for business
- Strive for a net environmental benefit
- Capitalize the cost
- Plan ahead
- Minimize the loss
- Refine the gain
- Market

# Q&A

## Contact Information

George F. Isiminger, P.E.

Senior Director of Engineering, Maintenance and Environmental  
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Port Manatee

941-722-6621

[gisiminger@portmanatee.com](mailto:gisiminger@portmanatee.com)