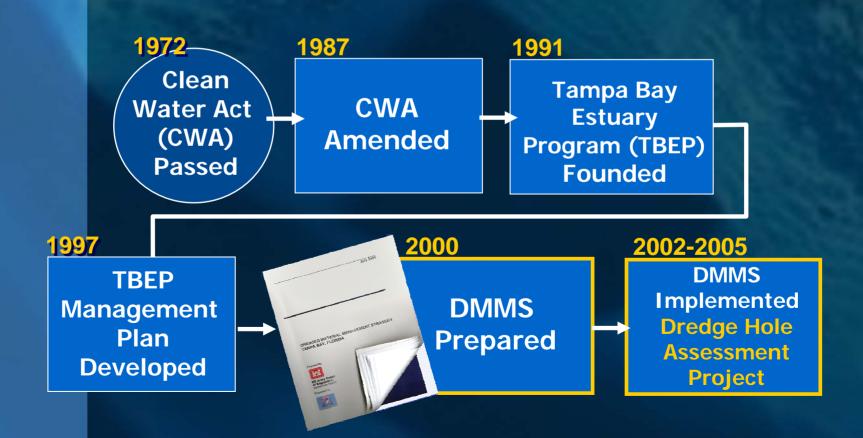


Background

Implementing the Tampa Bay Dredged Material Management Strategy (DMMS)



Presentation Format

Implementing the Tampa Bay Dredged Material Management Strategy (DMMS)

- DMMS Development
- DMMS Conclusions
- DMMS Recommendations
- Dredge Hole Assessment Project
- Project objectives/tasks
- Project results to date
- Next steps

Development

Tampa Bay Estuary Program Management Plan

Tampa Bay

Action Plan 1

Action Plan 2

Action Plan 3

Action Plan 5

Action Plan 6

Action Plan 4
Dredging & Dredged
Material Management

- 1. Committee
- 2. Report Strategy (DMMS)

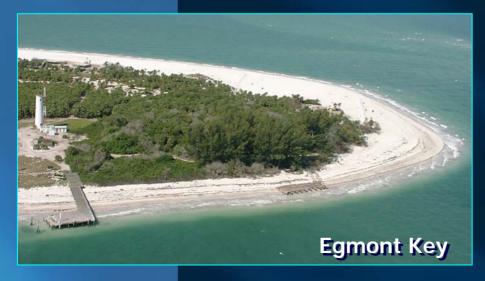
25-year plan

Conclusions Dredged ma

Tampa Bay

Dredged material can be a resource

- Place material on beaches
- Use dredged material beneficially
- Manage aggressively existing upland areas
- Share placement areas



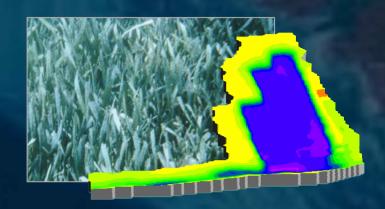


Recommendations

- Additional study
- Data collection
- Computer model
- Analysis

Tampa Bay

- Beneficial use investigation
- Environmental inventory
- Economics
- Regulations
- Regional Sediment Management



- Commercial applications
- Habitat restoration

Resource Management Community Needs

Recommendations

Tampa Bay

Resource Management Community Needs

52 habitat restoration sites / fill material

Dredge Hole
Assessment Project

General Community Needs

Additional space for dredged material

Participating Agencies



Holly Greening Nanette Holland



Steve Grabe



Tampa Bay

Ed Sherwood Bob McMichael



Jan Platt



Bill Fonferek

US Army Corps of Engineers



Brandt Henningsen

Project Objectives/Tasks

Tampa Bay

 Estimate the current habitat value of the selected holes

 Develop implementation plans for the ten selected holes



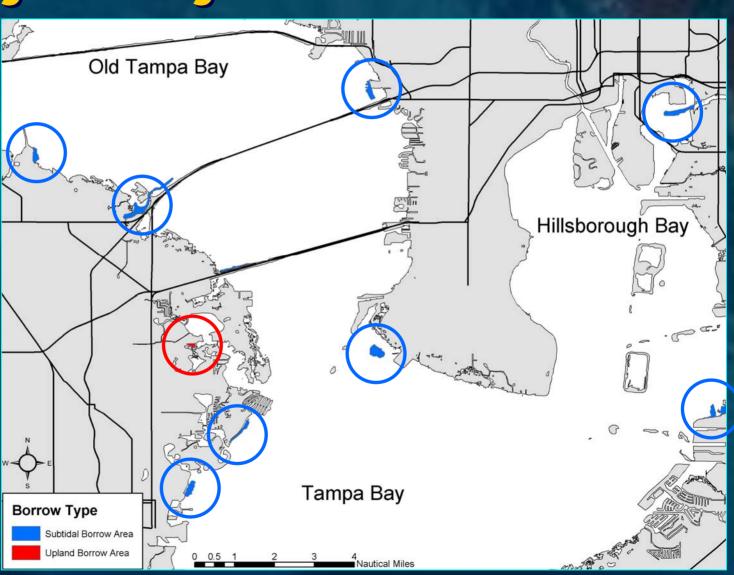
Project Objectives/Tasks

Tampa Bay

| Task | Complete | Ongoing | Upcoming |
|--|----------|---------|-------------|
| Write Quality Assurance Plan | X | S 110 | 3000 |
| Evaluate 28 holes | X | | M. A. |
| Select 10 holes | X | 460 | March . |
| Conduct field sampling:Water qualitySediment qualityFisheriesBenthos | | X | |
| Analyze field data | | X | SWA |
| Develop plans for selected holes | | | X |

Project Objectives/Tasks

Tampa Bay

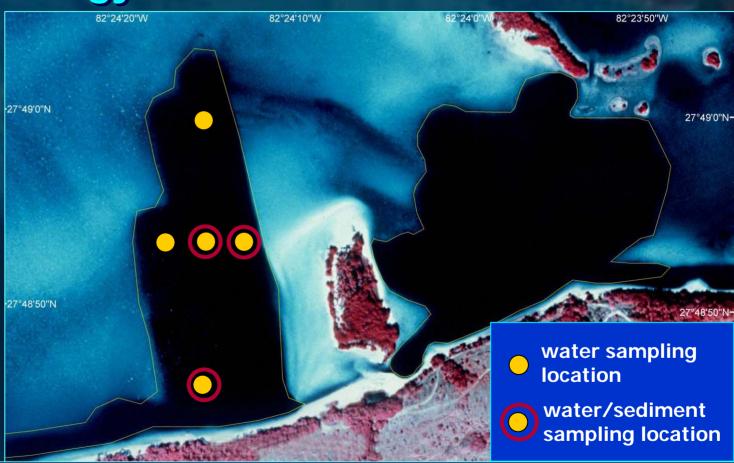




Water/Sediment Quality

Results to Date - Water/Sediment Quality Methodology

Tampa Bay



Water Quality (Temperature, salinity, DO)

Sediment Quality (Metals, PAHs, Pesticides, PCBs)

Results to Date - Water/Sediment Quality General Overview

Tampa Bay

Water Quality

- Stratification only evident in McKay Bay hole
- DO>4 at all sites except McKay Bay hole

Sediment Quality

 Organic contaminants < threshold effects level (TEL) or near maximum daily load (MDL)



Results to Date - Water/Sediment Quality Details - Whiskey Stump Key Hole #1

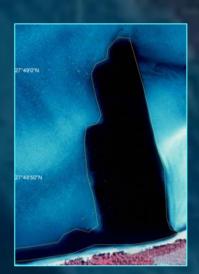
Tampa Bay

Water Quality

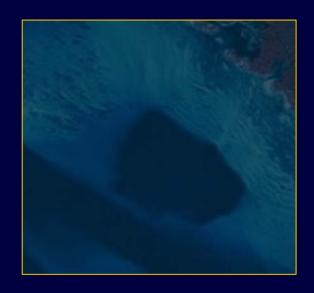
- Salinity: Polyhaline (21-25 ppt)
- No Stratification
- Dissolved Oxygen: >5 ppm

Sediment Quality

- Trace Metals: analysis ongoing
- Pesticides: <TEL
- PAHs: <TEL
- PCBs: <MDL







Benthos

Results to Date - Benthos Methodology

Tampa Bay



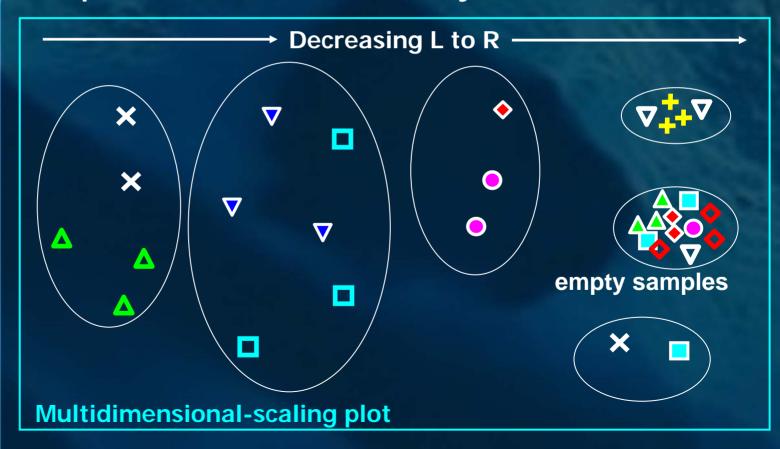
Benthos
(Taxa identification and counts)

Results to Date - Benthos General Overview

Tampa Bay

Fall 2002

 Dredge holes group by patterns of abundance, species richness, and diversity



Results to Date - Benthos Details - Whiskey Stump Key Hole #1

Татра Вау

Fall 2002

- 2 of 3 samples "empty"
- Mean number of taxa: 2
- Low mean abundance (50 m⁻²)

Spring 2003

- Abundance, numbers of taxa, diversity much higher than Fall (>12,000 m⁻²)
- Numerical dominants include: Ampelisca vadorum (Amphipoda) >80% and Mysella planulata (Bivalvia) 1%



Fisheries

Results to Date - Fisheries Methodology

Tampa Bay



Objectives

Estimate faunal composition Estimate angler utilization

Methodology

Fisheries-independent Fisheries-dependent

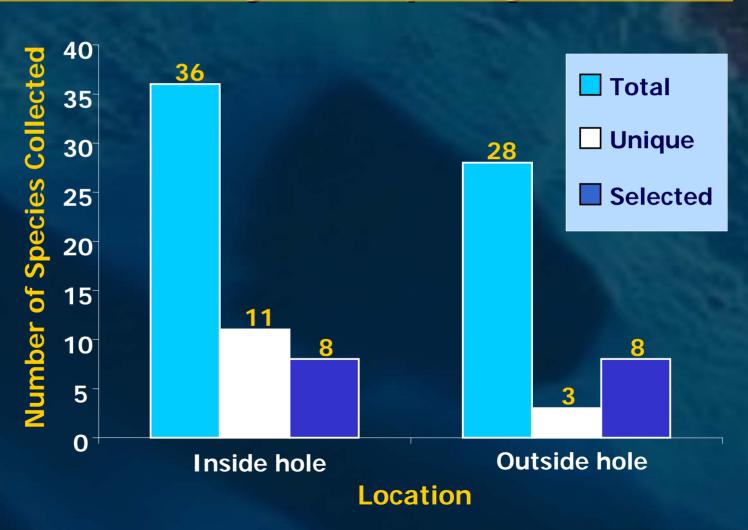
Results to Date - Fisheries General Overview

Tampa Bay



Results to Date - Fisheries Details - Whiskey Stump Key Hole #1

Татра Вау



Results to Date - Fisheries Details - Whiskey Stump Key Hole #1

Татра Вау



Next Steps

Tampa Bay

| Task | Complete | Ongoing | Upcoming |
|--|----------|-------------------------|----------------|
| Write Quality Assurance Plan | X | | |
| Evaluate 28 holes | X | | |
| Select 10 holes | X | 196 | Mar. |
| Conduct field sampling:Water qualitySediment qualityFisheriesBenthos | | Fall, Winter 2003 | |
| Analyze field data | - 100 | Continue | |
| Develop plans for selected holes | | | Spring 2004 |



Presentation Summary

• The implementation of the DMMS is a community effort that balances the needs of resource managers and the general community and establishes a decisionmaking framework for prioritizing projects