

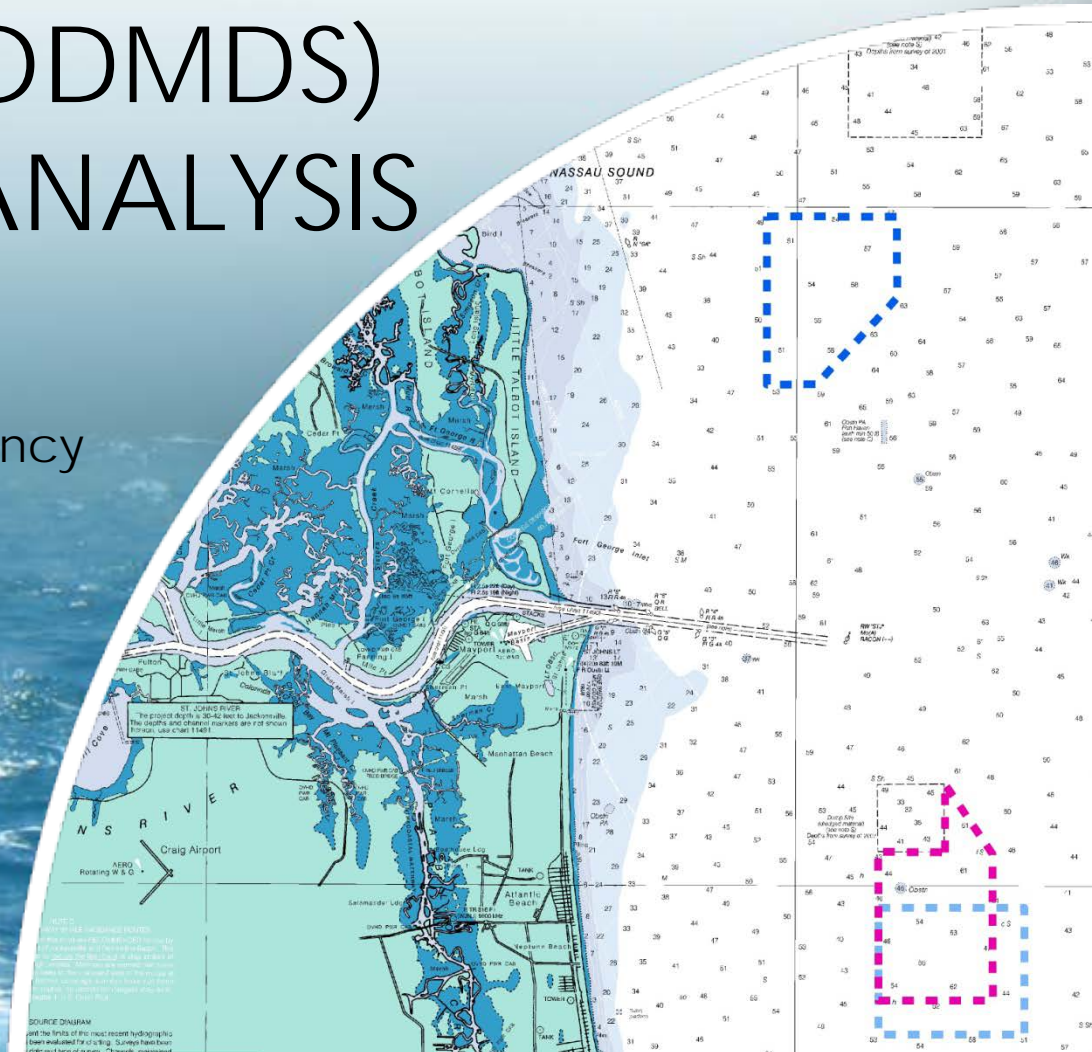
JACKSONVILLE OCEAN DREDGED MATERIAL DISPOSAL SITE (ODMDS) DESIGNATION ANALYSIS

Presented by:
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U.S. Environmental Protection Agency
Region 4

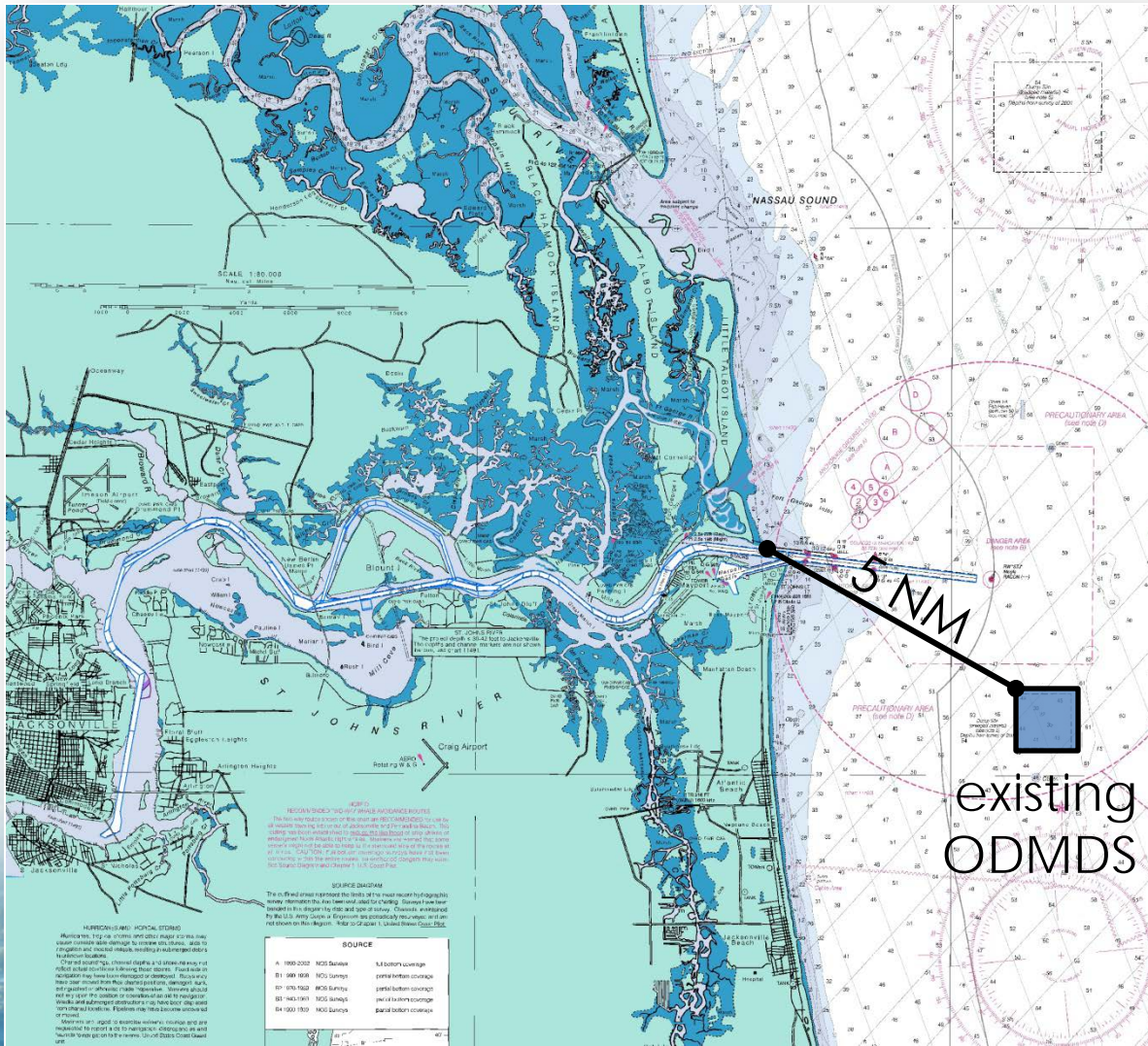
August 18, 2010



US Army Corps
of Engineers
Jacksonville District

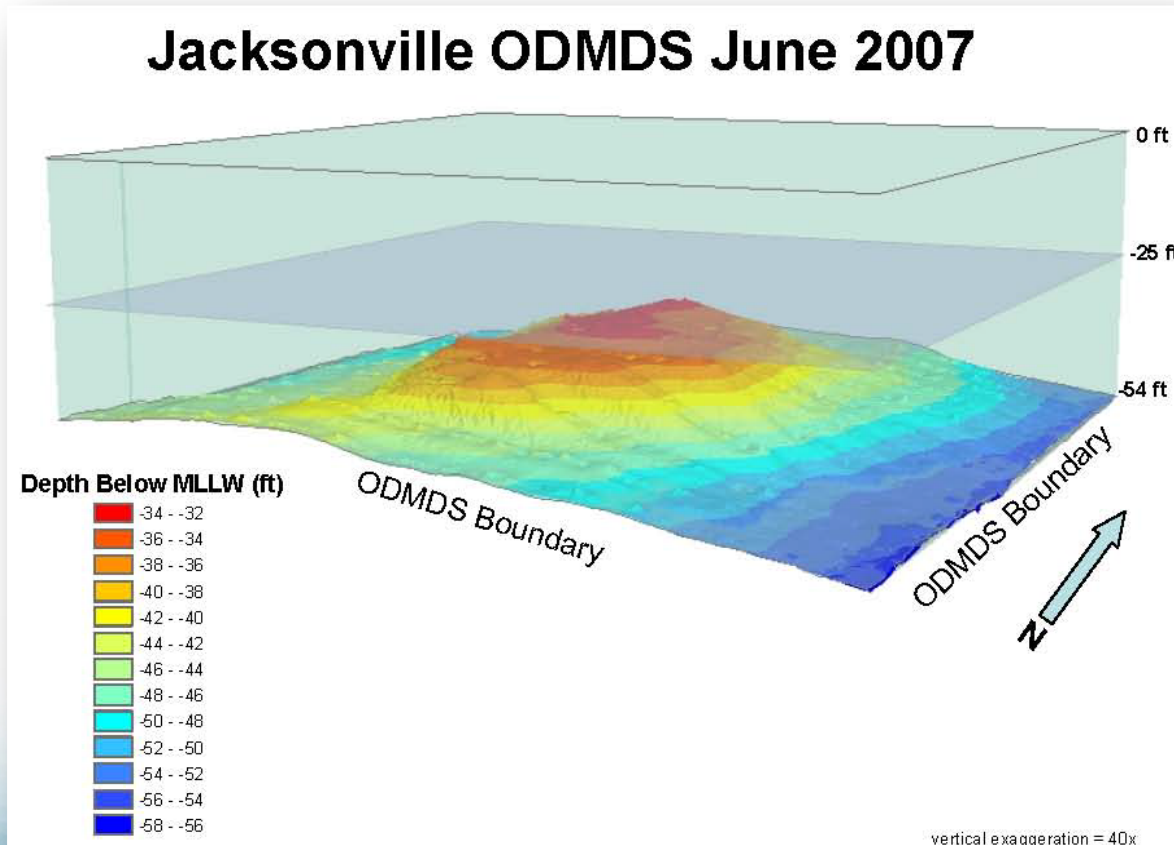


Presentation Outline



- ODMDS Background
- Site Designation Process
- USACE Objectives
- USEPA Selection Objectives
- Environmental Considerations
- The Alternatives
- Schedule

Existing Jacksonville ODMDS



Since 1973, the Jacksonville ODMDS has supported:

- Jacksonville Harbor
- Naval Station (NAVSTA) Mayport

USACE and USEPA have identified a need to either expand the Jacksonville ODMDS or designate a new ODMDS

The Process

National Environmental Policy Act (NEPA) Document

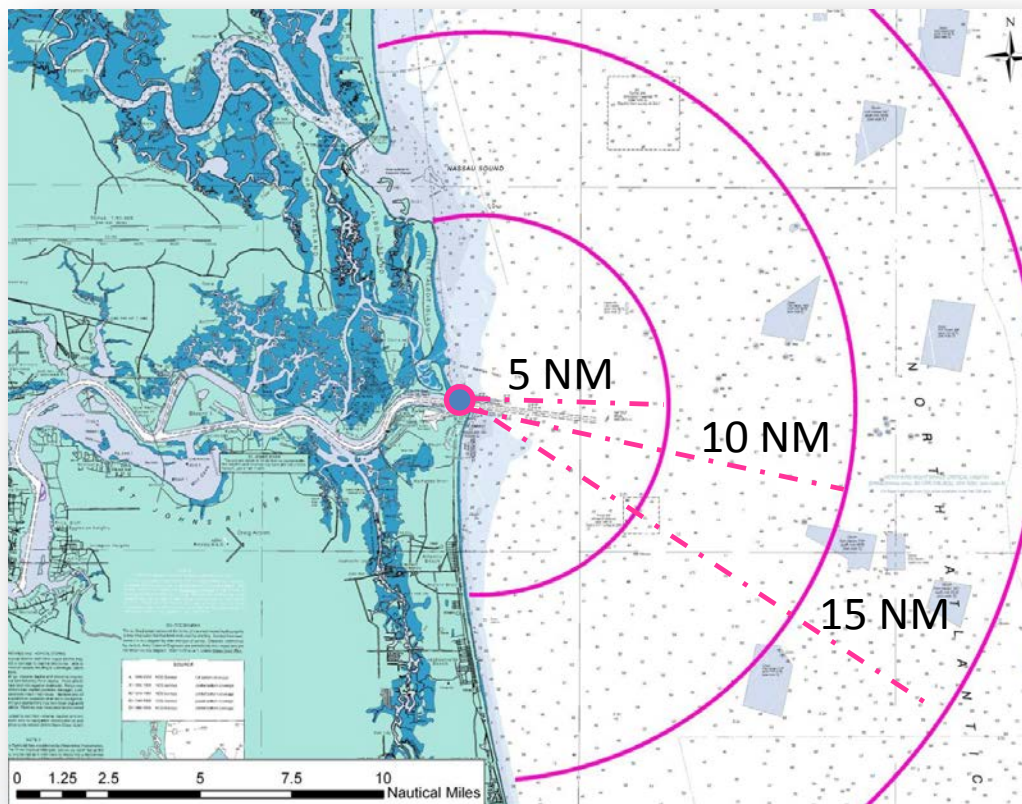
- Need for Ocean Disposal and Alternatives
 - Need , including long range maintenance needs
 - Environmental effects, availability/reliability of other disposal options
- 5 General and 11 Specific Criteria Addressed
- Biological Evaluation (Endangered Species Act)
- Essential Fish Habitat Assessment
- Coastal Zone Consistency Determination
- Site Management and Monitoring Plan

EPA will develop a rulemaking package for publication in the Federal Register

Submitted for Congressional Review

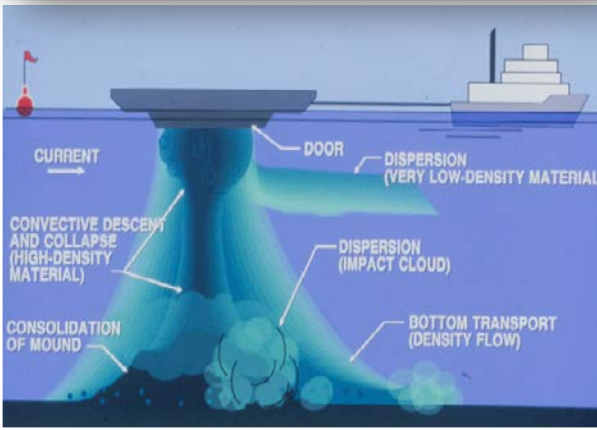
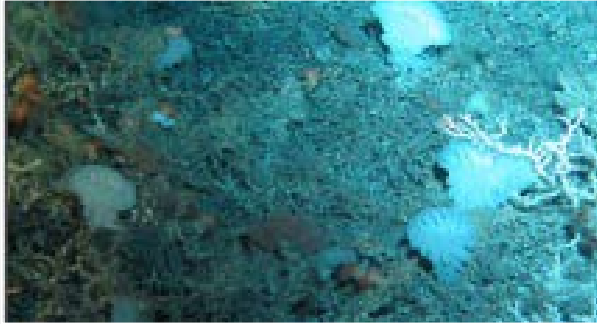


USACE Selection Objectives



Provide a framework for economic feasibility for the management of dredged material that will not cause unreasonable degradation of the ocean with respect to the marine environment and human health

A Zone of Siting Feasibility Analysis evaluates the operational and economic feasibility of various disposal locations for future maintenance and new work scenarios.

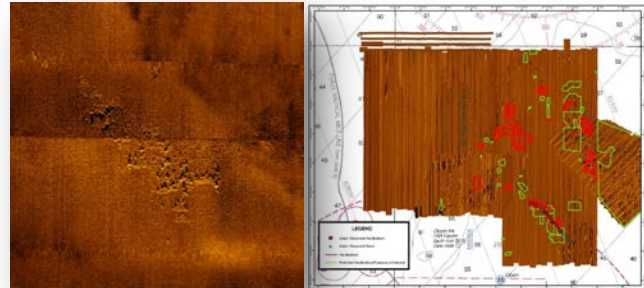


USEPA Selection Objectives

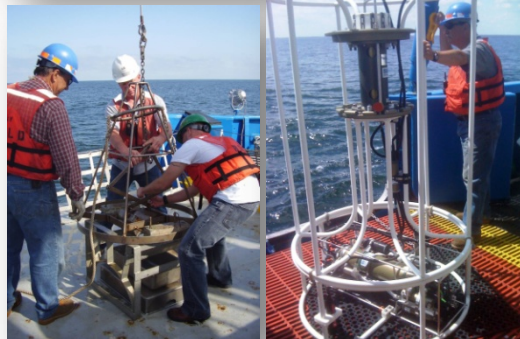
- 1) Minimize adverse environmental effects, as well as the interference of dumping activities with other activities in the marine environment;
- 2) Ensure that temporary perturbations in water quality are reduced to normal ambient seawater levels before reaching any beach, shoreline, marine sanctuary, or geographically limited fishery.

Environmental Considerations Surveys/Modeling /Analysis

- Threatened and Endangered Species (e.g., North Atlantic Right Whale, sea turtles, etc.)
- Hardbottoms and other geographically limited benthic habitats
- Essential Fish Habitat
- Commercial fisheries (e.g., shrimping)
- Socioeconomic considerations
- Recreation



Sidescan Sonar Surveys

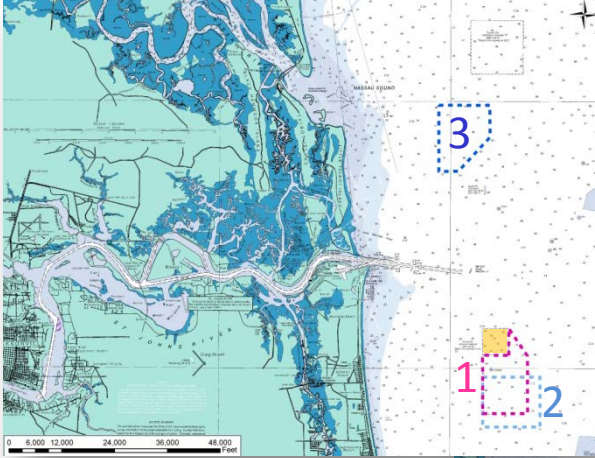


Chemical and Physical Testing



Epifaunal and Infaunal Surveys

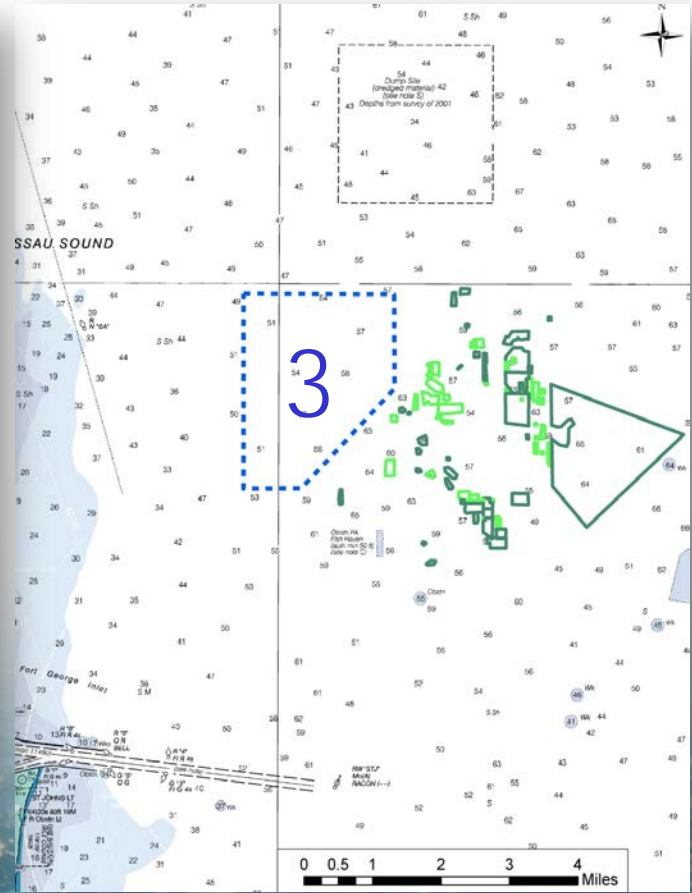
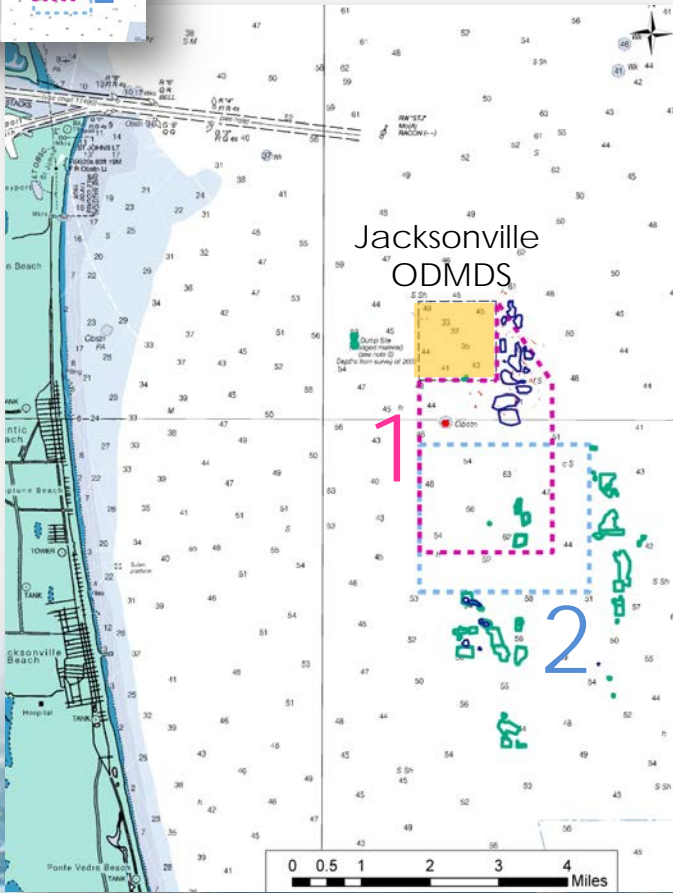




The Alternatives

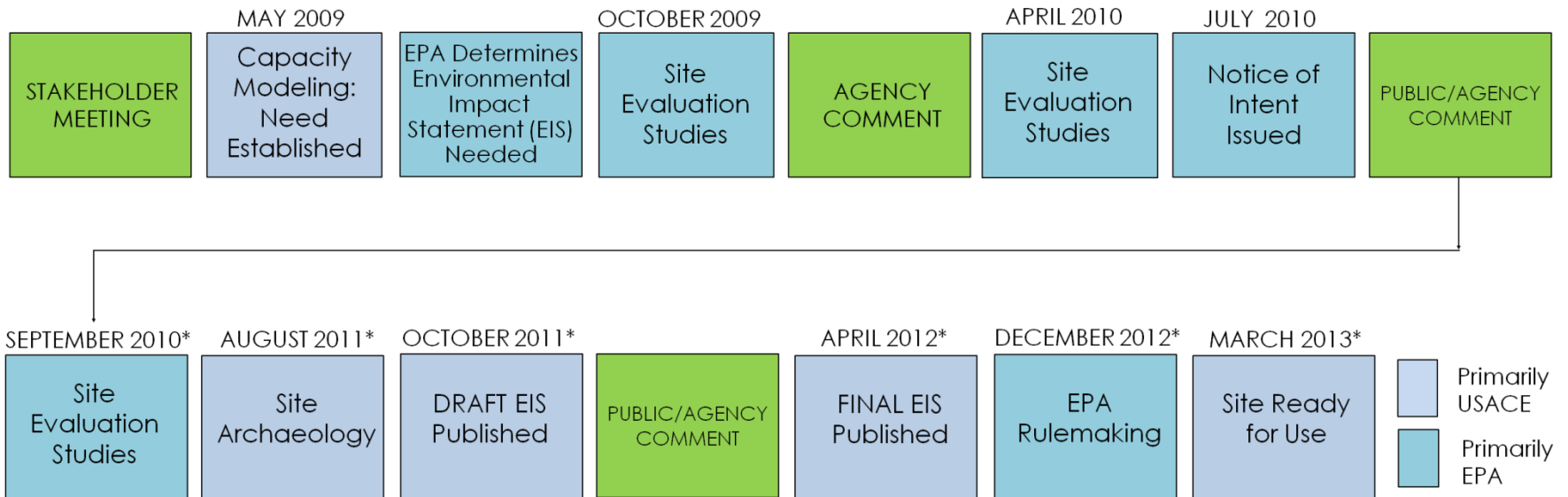
(south sites and north site alternatives)

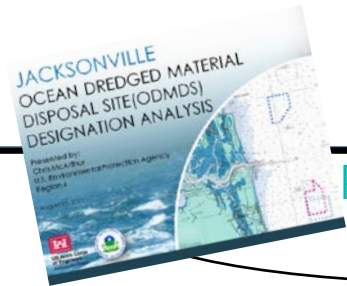
-  hardbottoms
-  potential hardbottoms
-  unknown relief areas
-  existing ODMDS



Tentative Schedule

Schedule (*anticipated dates)





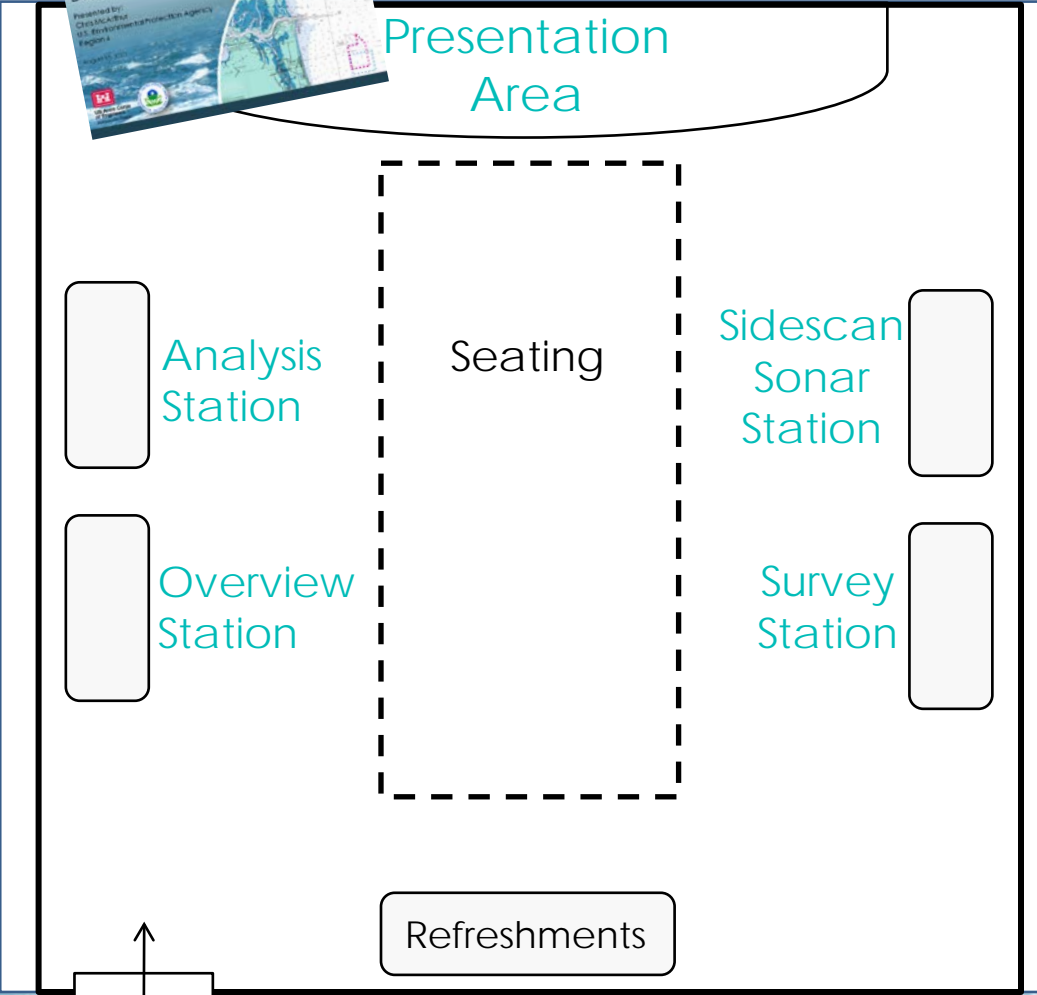
Presentation Area

THE ANALYSIS

ECONOMIC CONSIDERATIONS
ENVIRONMENTAL CONSIDERATIONS
DESIGNATION ANALYSIS

STUDY OVERVIEW

THE BACKGROUND
STUDY OBJECTIVES
STUDY METHODS
STUDY RESULTS
PUBLIC PARTICIPATION



INITIAL SURVEY ACTIVITY

DIVER INVESTIGATIONS AND SHIP-TOWED VIDEO CAMERA (DSST) VERY TOWAR DATA INTERPRETATION

DELINATING HARDBOTTOMS AND AREAS OF INTEREST

ALTERNATIVES SELECTED BY AREAS WITH THE LEAST SONAR TARGET INTEREST

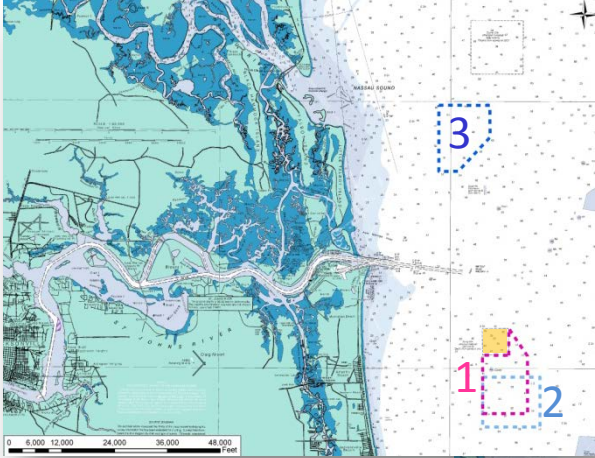
JACKSONVILLE ODMDS DESIGNATION ANALYSIS SIDESCAN SONAR TECHNOLOGY

ABIOTIC (NON-LIVING) RESOURCES

Sediment Physical Composition
Sediment and Water Chemistry
Water Column Characteristics

BIOTIC (LIVING) RESOURCES
Infaunal Invertebrate Community
Epifaunal Community

JACKSONVILLE ODMDS DESIGNATION ANALYSIS SITE DESIGNATION SURVEYS



The Alternatives

(south sites and north site alternatives)

-  hardbottoms
-  potential hardbottoms
-  unknown relief areas
-  existing ODMDS

