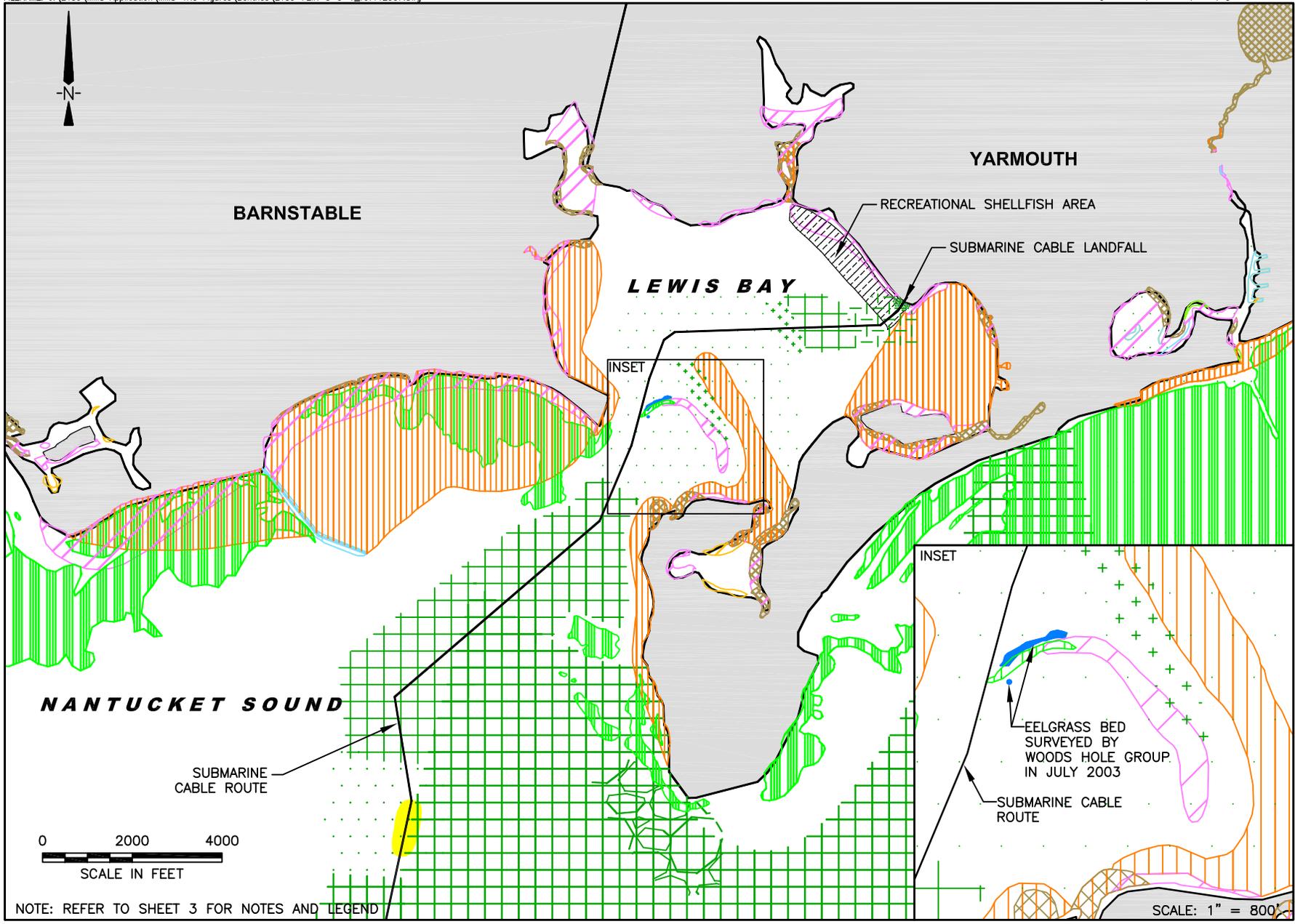


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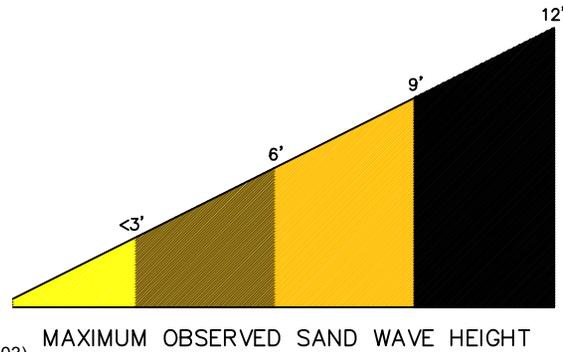
CAPE WIND ENERGY PROJECT
Benthic Habitat Map (Sheet 1)
Figure 4.2.2-1



CAPE WIND ENERGY PROJECT
Benthic Habitat Map (Sheet 2)
Figure 4.2.2-1

SEDIMENT TYPES:

-  GRAVELLY SAND
-  COARSE SAND
-  MEDIUM SAND
-  FINE SAND
-  SILTY SAND
-  SILT/CLAYEY SILT
-  COBBLE AND SCATTERED BOULDERS (2003)
-  COBBLE AND SCATTERED BOULDERS (2005)



MAXIMUM OBSERVED SAND WAVE HEIGHT

SHELLFISH SUITABILITY AREAS:

-  BLUE MUSSEL
-  BAY SCALLOP
-  SEA SCALLOP
-  SURF CLAM
-  SOFT SHELL CLAM
-  QUAHOG
-  YARMOUTH AQUACULTURE LEASE AREAS

EELGRASS:

-  MA DEP EELGRASS MAPPING INVENTORY (2000 DATA)
-  EELGRASS BED SURVEYED BY WOODS HOLE GROUP IN JULY 2003

EELGRASS NOTE 1:
 EELGRASS PATCH OBSERVED BY OSI/ESS SURVEY ON JULY 25, 2006 (SEVERAL SMALL PATCHES RANGING IN SIZE FROM 1 TO 3 METERS IN DIAMETER - SEE REPORT No. 4.2.2-1)

NOTES:

1. THIS FIGURE INCLUDES SEDIMENT TYPE DATA FROM VISUAL INSPECTION OF SURFACE SEAFLOOR SEDIMENTS (< UPPERMOST 0.5 FEET) COLLECTED DURING THE FOLLOWING GEOTECHNICAL PROGRAMS: 2001, 2003 AND 2005 OSI/ESS MARINE GEOPHYSICAL SURVEYS AND SEDIMENT SAMPLING PROGRAMS; 2002 AND 2005 ESS SEDIMENT SAMPLING PROGRAM; AND FROM 1987 USGS MISCELLANEOUS FIELD STUDY MAP MF-1911, OHARA & OLDALE 1987.

2. SAND WAVE HEIGHTS ARE BASED ON THE ANALYSIS OF HYDROGRAPHIC DATA AND ARE MEASURED FROM WAVE CREST TO WAVE TROUGH. IN AREAS EXHIBITING VARIABLE SAND WAVE HEIGHTS, THE MAXIMUM OBSERVED HEIGHT WAS USED FOR MAPPING. ADDITIONAL INFORMATION REGARDING THE INTERPRETATION PRESENTED CAN BE FOUND IN OSI REPORT NO. 03ES039 (2003) AND 05ES024 (2005).

3. THE SAND WAVE INFORMATION PRESENTED ON THIS DRAWING REPRESENTS THE RESULTS OF SURVEYS PERFORMED BY OCEAN SURVEYS, INC. ON 15 JUNE-7 JULY 2003 (SHADED AREA) AND 21 JUNE-16 JULY 2005 (BOLD LINE) AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT TIME.

4. SHELLFISH SUITABILITY AREA INFORMATION OBTAINED FROM MASSGIS, AND IS DATED JUNE 2004. THE MASSGIS DATALAYER DESCRIPTION STATES, "THE POLYGONS DELINEATE AREAS THAT ARE BELIEVED TO BE SUITABLE FOR SHELLFISH BASED ON THE EXPERTISE OF THE MASSACHUSETTS DIVISION OF MARINE FISHERIES, THE OPINION OF LOCAL MASSACHUSETTS SHELLFISH CONSTABLES, AND INFORMATION CONTAINED IN MAPS AND STUDIES OF SHELLFISH IN MASSACHUSETTS. THE AREAS COVERED INCLUDE SITES WHERE SHELLFISH HAVE HISTORICALLY BEEN SIGHTED, BUT MAY NOT CURRENTLY SUPPORT ANY SHELLFISH. THE SHELLFISH SUITABILITY AREAS WERE NOT VERIFIED IN THE FIELD AND THE BOUNDARIES WERE NOT SURVEYED. FOR THESE REASONS, THE AREAS SHOULD BE USED ONLY AS GUIDES TO THE APPROXIMATE LOCATIONS OF POTENTIAL HABITATS."

5. COORDINATES OF YARMOUTH AQUACULTURE LEASES PROVIDED BY YARMOUTH NATURAL RESOURCES DEPARTMENT IN AUGUST 2002.

6. MA DEP 2000 EELGRASS MAPPING INVENTORY DATA PROVIDED BY MA DEP IN JUNE 2005.