

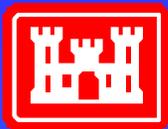


**US Army Corps
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Seattle District

**WELCOME TO
THE PUBLIC INFORMATION
MEETING**

**Grays Harbor Navigation Project
Operations & Maintenance Studies**

**Aberdeen Log Pavilion
August 17, 2004**



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Navigation Section web site for LTMS O&M Study updates <http://www.nws.usace.army.mil>

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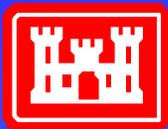
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Or you may contact a specific office directly during normal business hours (08:00 to 3:30 PST)

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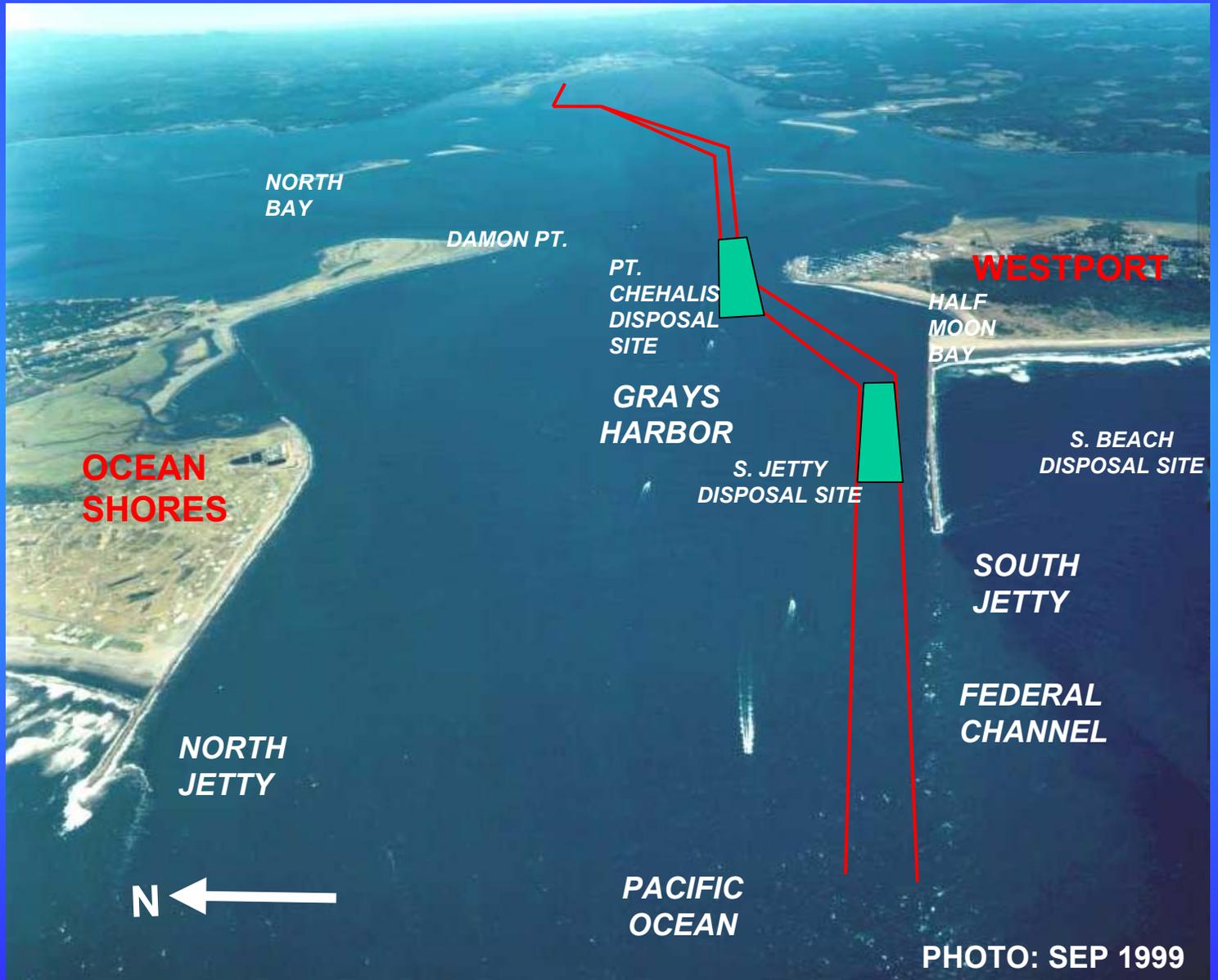
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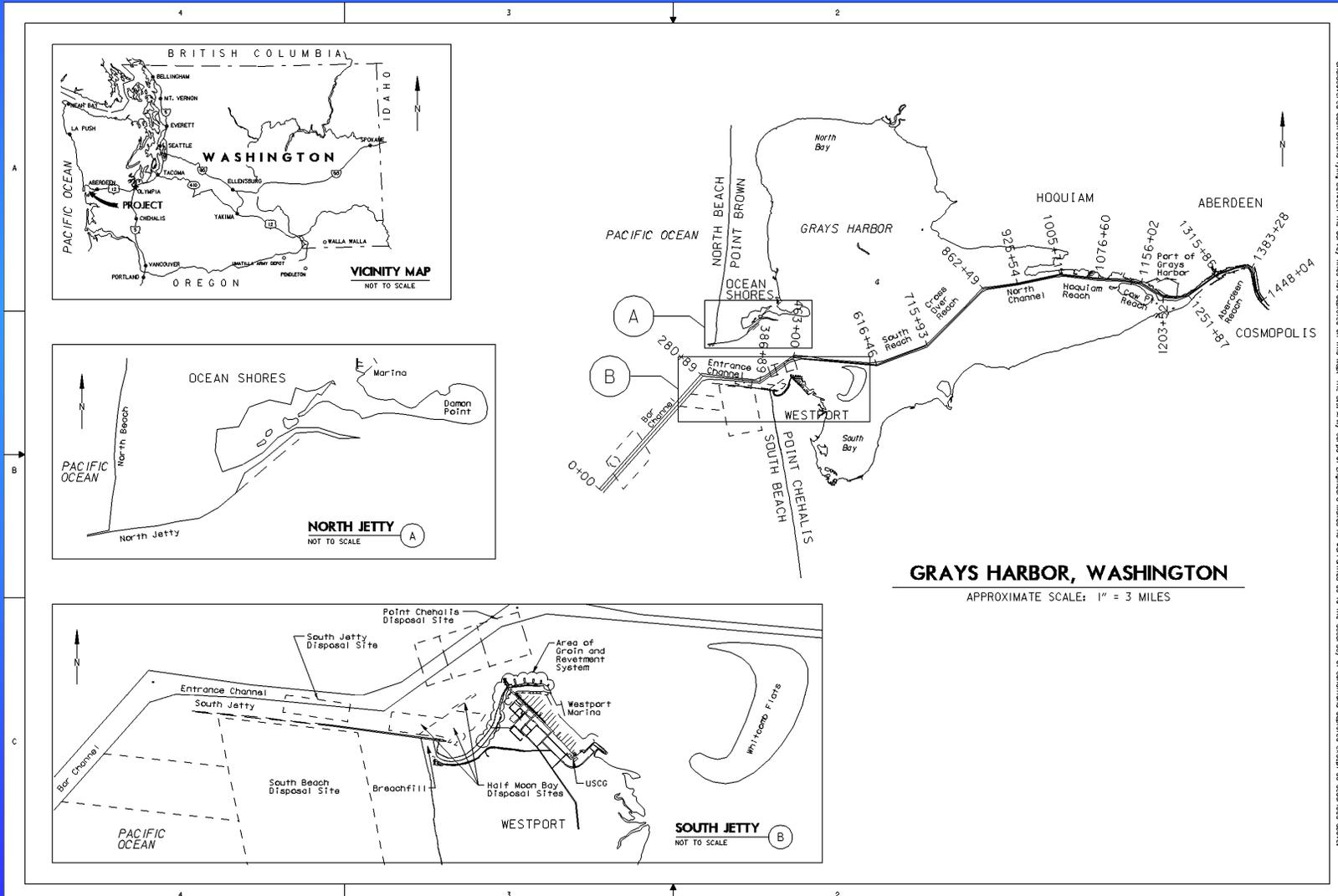
Grays Harbor Navigation Project Features





Public Information Meeting Grays Harbor O&M Navigation Project

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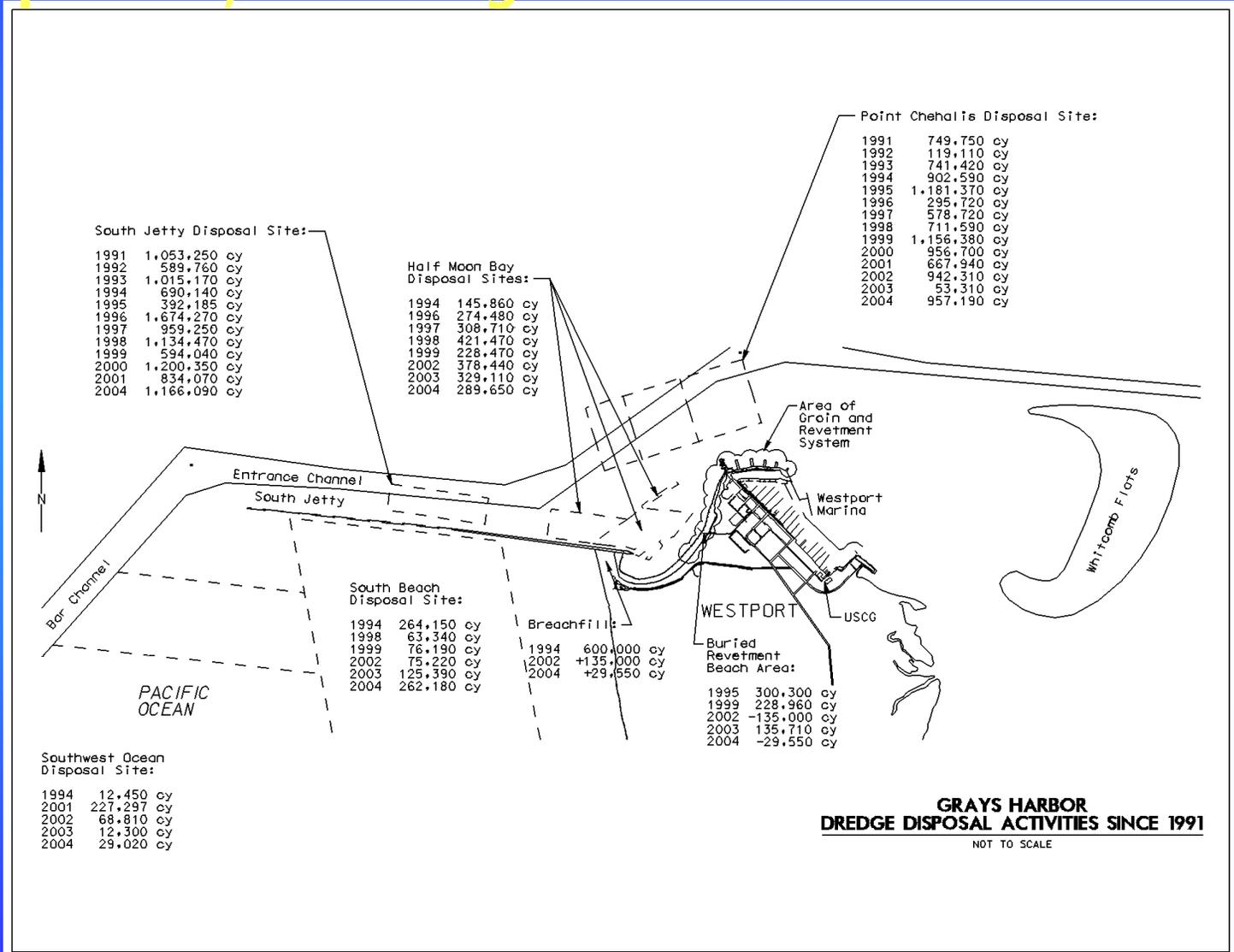
This map is a reproduction of a map published by the U.S. Army Corps of Engineers, Seattle District, in 1985. It is not to scale. The map is a reproduction of a map published by the U.S. Army Corps of Engineers, Seattle District, in 1985. It is not to scale. The map is a reproduction of a map published by the U.S. Army Corps of Engineers, Seattle District, in 1985. It is not to scale.



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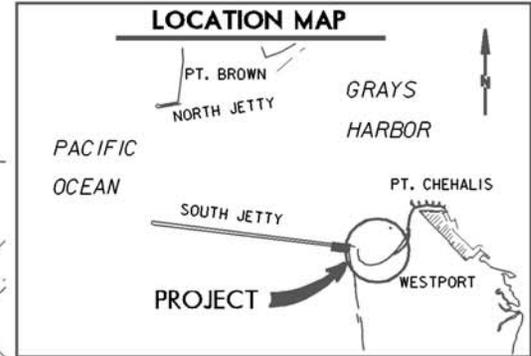
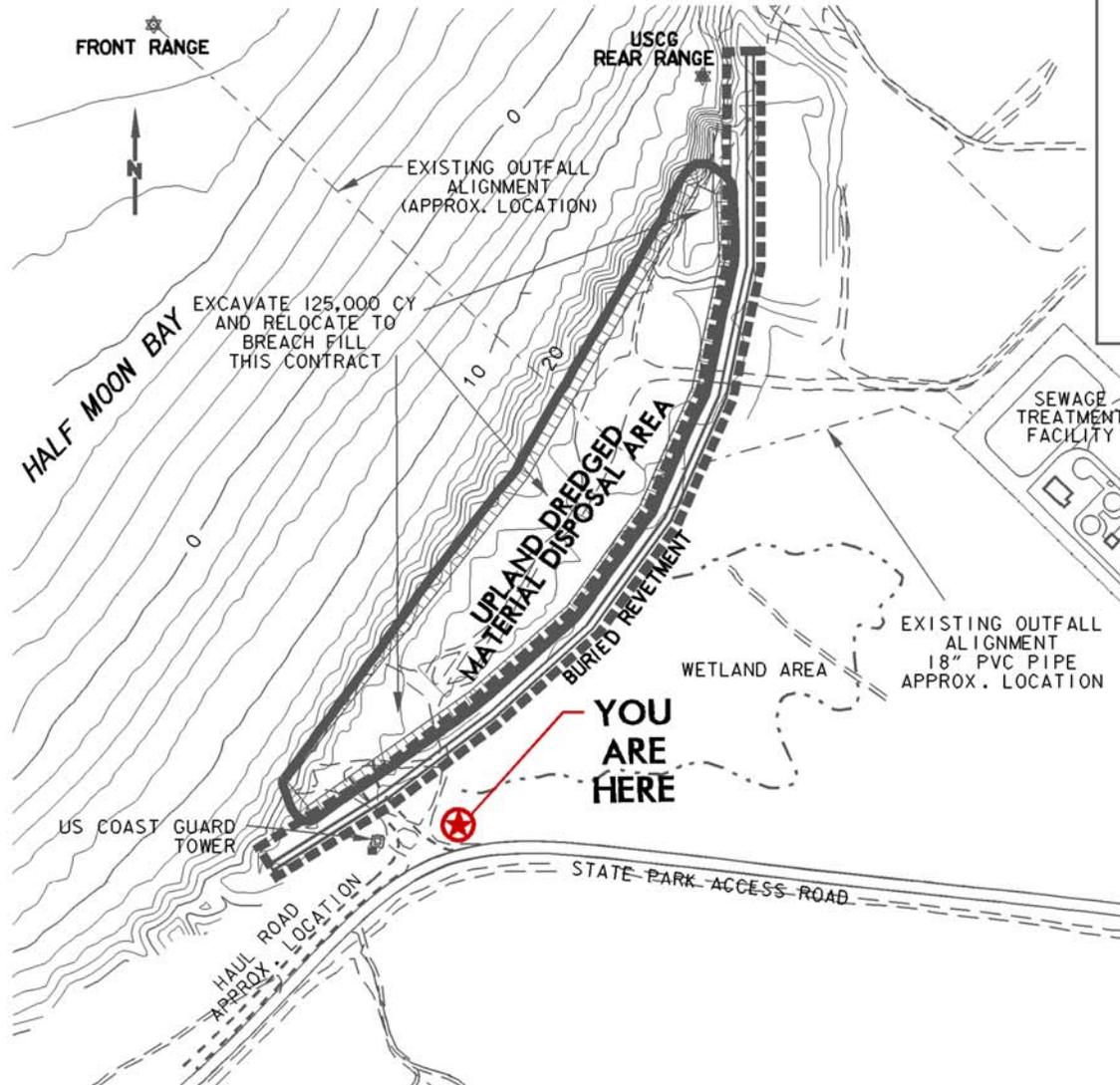
Grays Harbor Sand Placement 1991- present, Including 2004 Interim Action





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US ARMY CORPS OF ENGINEERS 2002 SOUTH JETTY BREACH FILL WESTPORT, WASHINGTON



The upland dredged material disposal area shown on this figure is a stockpile of sand on top of the Point Chehalis revetment extension constructed in 1999. Sand dredged from the Grays Harbor navigation channel by the Corps is placed in this area so that it falls onto the beach and covers the revetment stone.

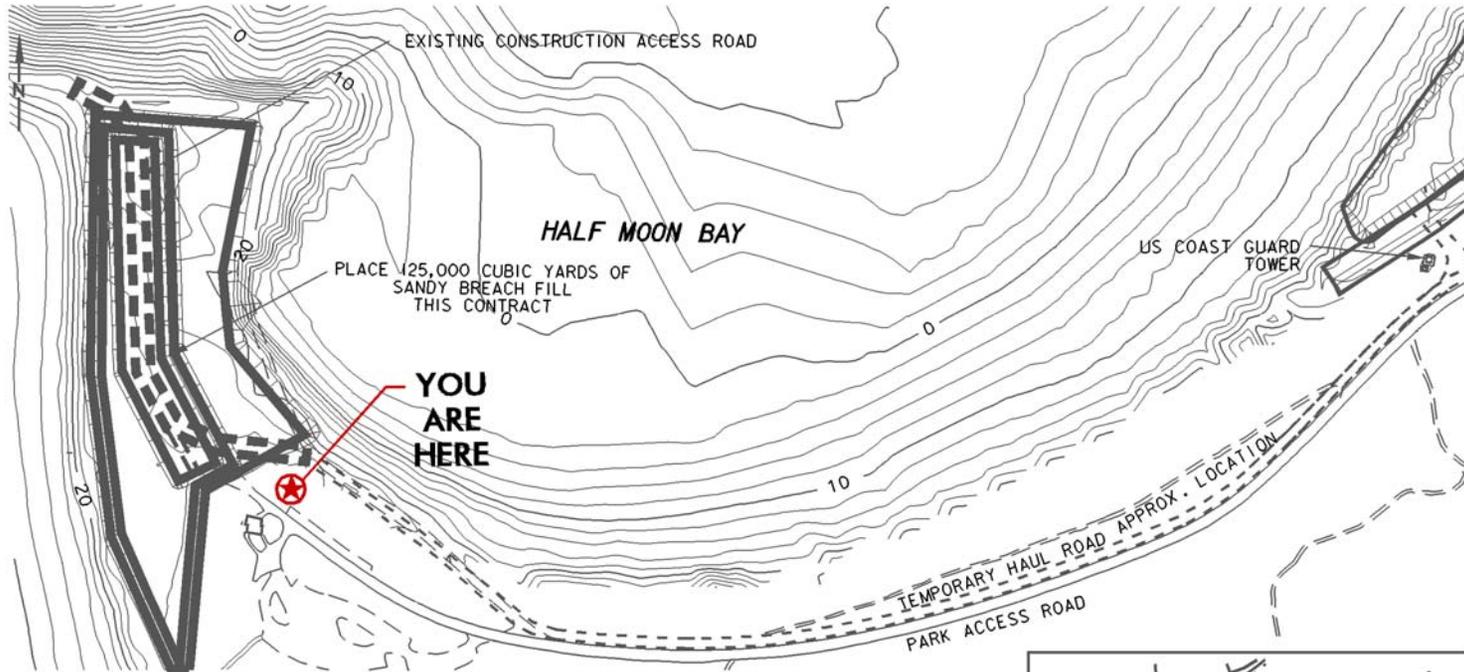
During April and May 2002, sand from this site will be removed and trucked to an area next to the South Jetty that is eroding. The purpose of this work is to prevent another breach from forming between the South Jetty and the South Beach shoreline. The large hole created in the disposal site will then be filled by material dredged from the Grays Harbor navigation channel during routine maintenance scheduled in June 2002.

For more information on this work, please see the Corps of Engineers web site at: <http://www.nws.usace.army.mil>



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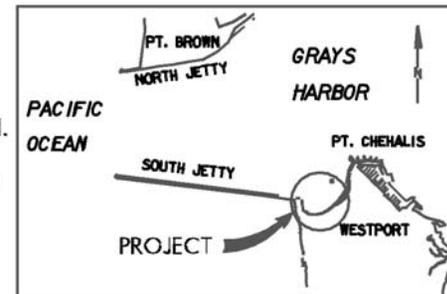
US ARMY CORPS OF ENGINEERS 2002 SOUTH JETTY BREACH FILL WESTPORT, WASHINGTON



During a winter storm in December 1993, a breach formed between the South Jetty and the South Beach shoreline. The breach widened rapidly, exposing the landward end of the jetty and eroding portions of Westhaven State Park. The Corps responded by filling the breach with approximately 600,000 cubic yards of material dredged from the Grays Harbor navigation channel.

Since that time, sand has eroded from the breach fill site at a rate of approximately 10,000 cubic yards per year. Severe storms during November and December of 2001 caused overtopping of the South Beach shoreline directly south of the jetty.

The purpose of this work is to prevent another breach from forming between the South Jetty and the South Beach shoreline. Approximately 125,000 cubic yards of sandy dredged material stockpiled from the navigation channel will be placed on 8 acres in the breach area. The sand will be graded to look like a natural dune and will be planted with native dune grass beginning in November 2002.



For more information on this work, please see the Corps of Engineers web site at: <http://www.nws.usace.army.mil>

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Sand Placement Plan used for 2004 Interim Action-29,000 cubic yards

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Truck haul rehandling of sand from stockpile to breachfill Feb. 2004





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Placement of stockpile sand at breachfill Feb. 2004





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Dune Grass Planting-Reference Aug. 04 Draft Summary by Matt Bennett





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Model Description

Physical Model Coverage



- Area approx. 7,000 ft x 7,000 ft (1.3 mi x 1.3 mi)
- Equivalent model basin is 140 ft x 140 ft

Grays Harbor Navigation Project — 1999 photo

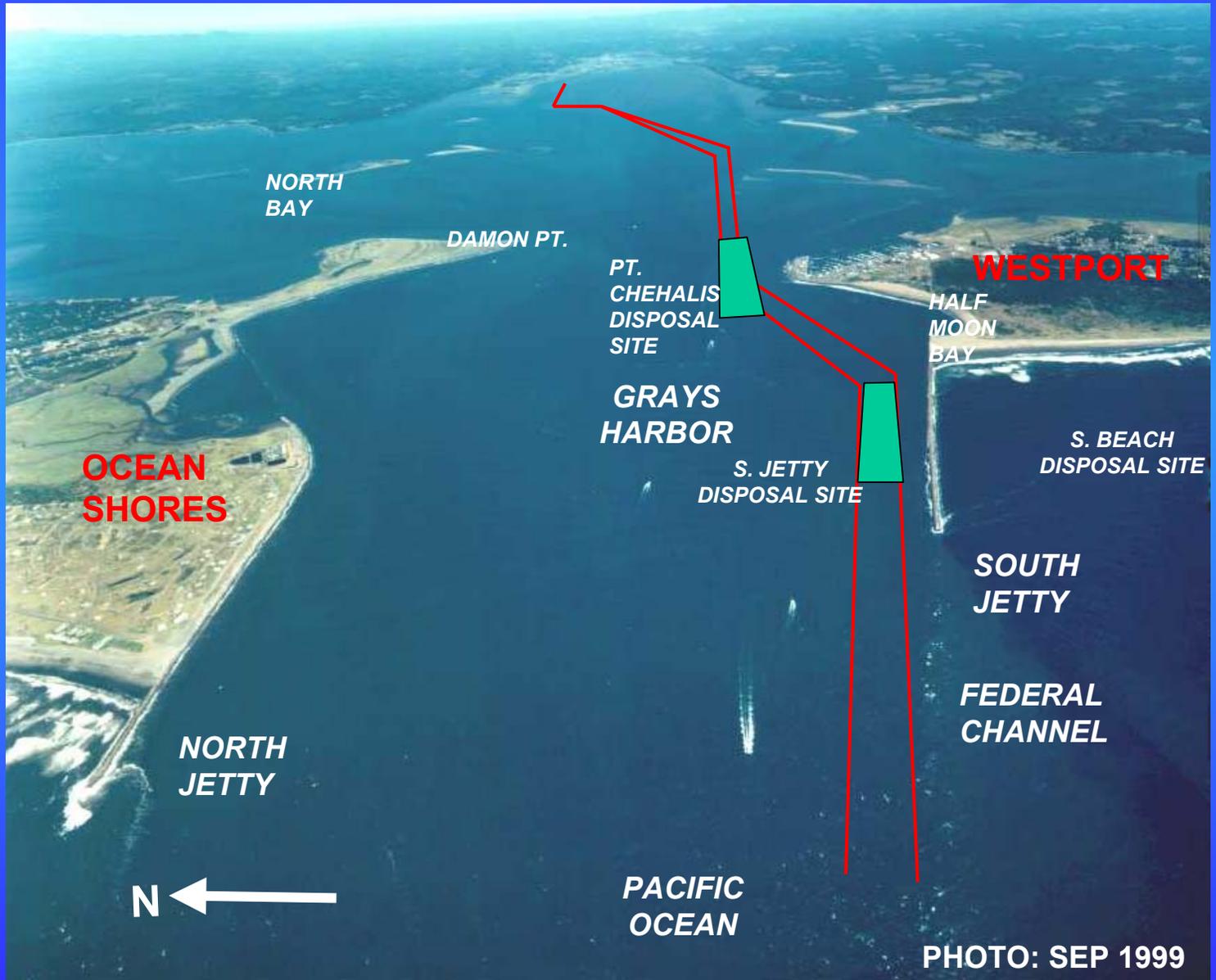




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Grays Harbor Navigation Project Features





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Sand Placement Plan for interim until LTMS is completed & implemented- protect breachfill with sand

