PRELIMINARY ISSUE
NOT FOR NAVIGATION
APPROVAL IN PROCESS

MATCH LINE - SHEET 2

LEGEND:
-45'
-44'
-43'
-42'
-41'

NOTES:

DRAWINGS NOT TO BE USED AS NAVIGATION CHARTS. ONLY CHANNEL CONDITION AT DATE OF SURVEY. THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SURVEYED BY THE CORPS OF ENGINEERS, PORTLAND DISTRICT, 26 JULY 2013.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST FOOT AND HUNDREDTHS OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

1.00 INDICATES THE NUMBER AND BEGINNING OF A LINE OF SOUNDINGS.

PLANE GRID, BEARING AND COORDINATES ARE BASED ON THE STATE OF CALIFORNIA COORDINATE SYSTEM, LAMBERT CONFORMAL PROJECTION, ZONE III NAD 83, CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 253, PUBLISHED BY NATIONAL OCEAN SURVEY.

BASE MAPS WERE COMPILED BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY FLOWN 10 AUGUST 1998.

PROJECT DEPTHS ARE AS FOLLOWS:
SOUTHAMPTON SHOALS CHANNEL 45 FEET.
LONG WHARF MANEUVERING AREA - 45 FEET.

VERTICAL CONTROL
SOUTHAMPTON SHOALS & LONG WHARF MANEUVERING; BENCHMARK "10" 1937 ELEV 15.36 FT. M.L.W.
AND BENCHMARK "11" 1946 ELEV 15.47 FT. M.L.W.
TIDE GAUGE LOCATED AT TIBURON NET DEPOT.

HORIZONTAL GPS CONTROL - COAST GUARD BEACON

N.A.D 1983 FEET COORDINATES		
CHANNEL ∠	NORTH	EAST
C1	2'145'80.04	6001284.11'
C2	2'146'97.16	6006685.11'
C3	2'149'32.11	6006935.37'
C4	2'148'41.11	6006960.31'
C5	2'151'15.94	6006749.15'
C6	2'156'40.94	6006745.11'

N.A.D 1983 FEET COORDINATES		
CENTERLINE ∠	NORTH	EAST
C1	2'149'38.84	6006980.07'
C2	2'151'51.14	6006978.11'
C3	2'156'18.94	6006743.07'

GRAPHICS SCALE 1" = 200'
200' 0 100' 200' 400' 800'

US Army Corps of Engineers
San Francisco District
1455 Market Street
San Francisco, CA 94103

Mark	Description	Date	Appr.

DESIGNED BY:		CHECKED BY: PDT	DRAWN BY: PDT
SUBMITTED: PDT		DATE:	SHEET NO. 1 OF 4	DRAWING NO. 9	2	XXX
Hydro Survey Team Leader		7/31/2013		
APPROVAL RECOMMENDED:		PREPARED UNDER THE DIRECTION OF		
Chief, Hydro Survey Section		JOHN K. BAKER		
APPROVED:		LT. COLONEL, C.E., DISTRICT ENGINEER		
Chief, Construction Branch				

CONTRA COSTA COUNTY CALIFORNIA

RICHMOND OUTER HARBOR
SOUTHAMPTON SHOAL
CONDITION SURVEY
26 JULY 2013

Sheet reference number
C1