

PRELIMINARY ISSUE
THIS PLAN ISSUED FOR
ADVANCE INFORMATION ONLY

FLOOD →
← EBB

NAD 83 CHANNEL ANGLE POINTS			NAD 83 CENTERLINE ANGLE POINTS		
∠ PT	X	Y	∠ PT	X	Y
1	6009615.29	2192343.7900	C1	6009853.00	2192160.00
2	6012570.00	2196164.0000	C2	6012791.00	2195960.00
3	6016237.00	2199512.0000	C3	6016421.00	2199273.00
4	6022201.68	2203326.1306	C4	6022376.68	2203081.16
5	6034692.58	2210763.4016	C5	6033649.18	2209793.00
6	6047610.63	2213082.8116	C6	6034836.68	2210359.38
7	6058087.95	2213781.2656	C7	6036340.65	2210754.51
8	6058127.86	2213182.5946	C8	6047663.65	2212787.53
9	6057419.43	2213135.3686	C9	6053760.51	2212668.82
10	6053815.20	2211848.5036	C10	6057399.48	2213434.70
11	6047716.66	2212492.2556	C11	6058107.91	2213481.93
12	6036393.66	2210459.2336			
13	6033802.66	2209535.2336			
14	6022551.66	2202836.2336			
15	6016604.00	2199034.0000			
16	6013013.00	2195756.0000			
17	6010090.37	2191976.4800			



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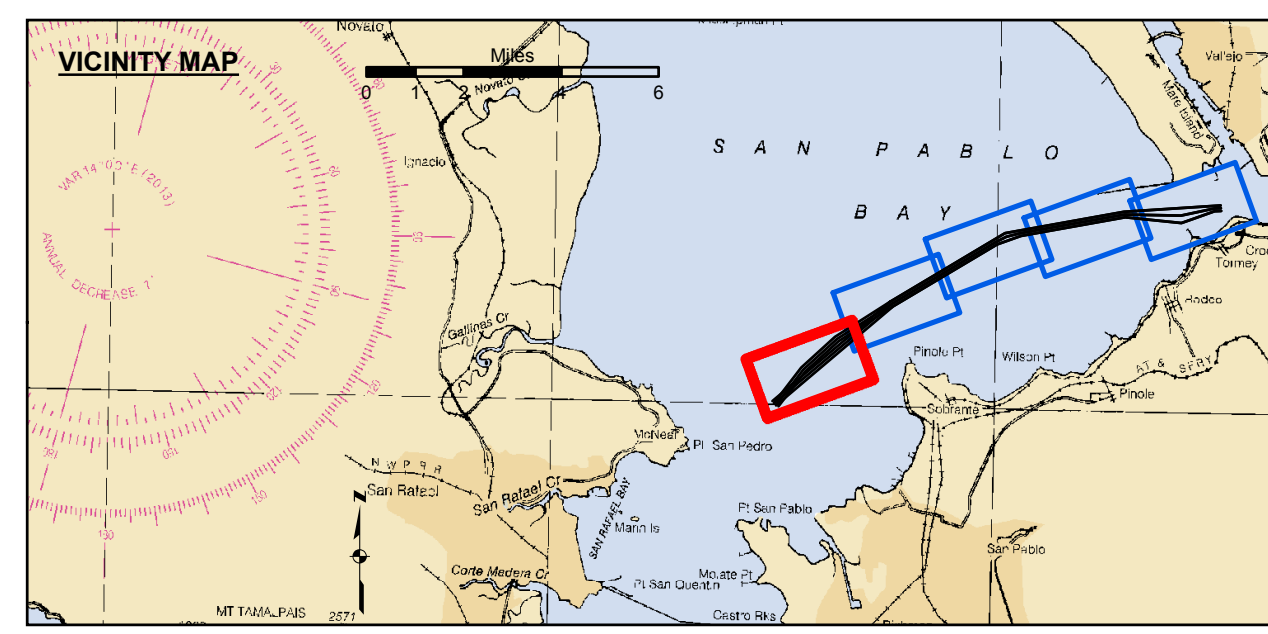
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Prepared Under the Direction of:	John C. Morrow	Chart Date:	Aug 15, 2014
Submitted:	Hydro Survey Team Leader	Designed by:	PDT
Recommended:	Chief, Hydro Survey Section	Drawn by:	PDT
Approved:	Chief, Construction Branch	Checked by:	PDT

CALIFORNIA
PINOLE SHOALS
POST-DREDGE SURVEY
6-12 AUGUST 2014

SAN PABLO BAY

Sheet Reference Number
1 of 5



- Federal Navigation Channel
- Shoaling Area
- Placement Area
- Anchorage Area
- Wreck Area
- Submerged Wreck
- Angle Point
- Beacon, General
- Obstruction Point
- Navigation Buoy
- Navigation Buoy
- Shoalest Sounding*
- Countours -35
- Countours -34
- Countours -33
- Countours -32
- Countours -31

NOTES:
HORIZONTAL COORDINATE SYSTEM: NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CALIFORNIA ZONE III. DISTANCE UNITS IN U.S. SURVEY FEET.
VERTICAL DATUM: SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER.
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY CONDUCTED ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED TO REPRESENT THE GENERAL CONDITION EXISTING AT THAT TIME.
BASE MAPS ARE USDA NAIP 2010.
*SHOALEST SOUNDING PER QUARTER PER REACH

DRAWING NOT TO BE USED FOR NAVIGATION. 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.
SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT. SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.
SURVEYED BY THE CORPS OF ENGINEERS.
THE PROJECT DEPTH IS -35 FEET AT MLW.
PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE III CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.
HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON
VERTICAL CONTROL: BENCHMARK "5056 C" (1976) US&GS DISK, ELEV. 34.75 MLLW, NAVD 88 DATUM TIDE GAUGE LOCATED AT POINT PINOLE PIER.
BENCHMARK "2218 L" (1976) US&GS DISK, ELEV. 11.00 MLLW, NAVD 88 DATUM TIDE GAUGE LOCATED AT MARE ISLAND PIER 35.