U.S. ARMY CORPS OF ENGINEERS 122°22'40"W 122°22'30"W 37°48'10"N 122°22'20"W 122°22'10"W 122°22'0"W 37°48'20"N 122°21'50"W 122°21'40"W 6,021,904 US Army Corps of Engineers San Francisco District 450 Golden Gate Ave San Francisco, CA 94102 FLOOD -← EBB 1:2,400 1 inch = 200 feet Absolute Scale Relative Scale (ANSI D 22x34) OAKLAND HARBOR REACH 1 POST-DREDGE SURVEY 28 JANUARY 2019 6,021,904 6,024,904 122°22'20"W 122°22'10"W 37°47'40"N 122°22'0"W 122°21'50"W 122°21'40"W 37°47'50"N 122°21'30"W 122°21'20"W DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, HORIZONTAL COORDINATE SYSTEM:
NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE Federal Navigation Channel THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY Beacon, General Contours POI THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY. SYSTEM (SPCS), CALIFORNIA ZONE III. DISTANCE UNITS IN U.S. SURVEY FEET. THE PROJECT DEPTHS ARE AS FOLLOWS: OUTER AND INNER HARBOR IS -50 FEET Shoaling Area **Obstruction Point** INNER HARBOR TURNING BASIN TO PARK STREET BRIDGE IS -35 FEET. SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER. TIDAL CANAL PROJECT DEPTH IS -18 FEET. 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 CONTROL: Placement Area 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. Navigation Buoy PRIMARY: RTK POSITIONING Anchorage Area SECONDARY: COAST GUARD DGPS D-BEACON SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT. VERTICAL CONTROL: SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY. PPCP: PORT 1 1936/PID HT0654. Navigation Buoy OAKLAND INNER, REACH 4-6 DISK SET AT SOUTH END OF CLAY STREET, AT THE PORT OF OAKLAND CLAY STREET PIER. Wreck Area SURVEYED BY THE CORPS OF ENGINEERS. ELEVATION: 9.56 FEET MLLW - PUBLISHED 21 APR 2003 ON NOAA STATION 941 4764 TIDE GAUGE LOCATION IS CHISEL MARK Sheet BASE MAPS ARE USDA NAIP 2010. APPROX. 10 FEET WEST ON TOP OF CONCRETE CURB; CHISEL ELEVATION 11.0 FEET MLLW. LPCP 1: 941 4777 B TIDAL/PID AE5211, OAKLAND INNER REACH 1-3 DISK SET IN BALLARD FOUNDATION Reference Shoalest Sounding* Submerged Wreck *SHOALEST SOUNDING PER QUARTER PER REACH NEAR THE NORTHEAST END OF BERTH 40 OF THE OAKLAND MIDDLE HARBOR. ELEVATION: 13.48 FEET MLLW - DERIVED FROM WGS-84 ELLIPSOID ELEVATION, GEOID09 AND VDATUM MODELS Number TIDE GAUGE LOCATION IS IN FACE OF PILING AT BERTH 37; NAIL ELEVATION 9.7 FEET MLLW.

LPCP 2: OAK OUTER 1 2012/NO PID, OAKLAND OUTER REACH 7-10 DISK SET IN PARKING LOT AT PIER 6 AMNAY TUG TERMINAL Angle Point 1 of 8 AT THE EDGE OF THE PIER. ELEVATION: 14.04 FEET MLLW - DERIVED FROM WGS-84 ELLIPSOID ELEVATION, GEOID09 AND VDATUM MODELS TIDE GAUGE LOCATION IS IN FACE OF PILING AT PIER 6, 10' EAST OF BENCHMARK; NAIL ELEVATION 10.1 FEET MLLW.

U.S. ARMY CORPS OF ENGINEERS 122°21'30"W 122°21'20"W 122°21'10"W 122°21'0"W 122°20'50"W 37°48'40"N 122°20'40"W 122°20'30"W 6,027,409 US Army Corps of Engineers San Francisco District 450 Golden Gate Ave San Francisco, CA 94102 FLOOD -← EBB 1:2,400 1 inch = 200 feet Absolute Scale Relative Scale (ANSI D 22x34) 6,030,409 122°21'10"W 122°21'0"W 122°20'40"W 122°20'20"W NOTES: HORIZONTAL COORDINATE SYSTEM: DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY, Federal Navigation Channel Contours THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY POI Beacon, General NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY. SYSTEM (SPCS), CALIFORNIA ZONE III. DISTANCE UNITS IN U.S. SURVEY FEET. THE PROJECT DEPTHS ARE AS FOLLOWS: OUTER AND INNER HARBOR IS -50 FEET Shoaling Area **Obstruction Point** INNER HARBOR TURNING BASIN TO PARK STREET BRIDGE IS -35 FEET. SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER. TIDAL CANAL PROJECT DEPTH IS -18 FEET. 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 CONTROL: Placement Area 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. Navigation Buoy PRIMARY: RTK POSITIONING SECONDARY: COAST GUARD DGPS D-BEACON Anchorage Area SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT. VERTICAL CONTROL: SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY. PPCP: PORT 1 1936/PID HT0654. Navigation Buoy OAKLAND INNER, REACH 4-6 DISK SET AT SOUTH END OF CLAY STREET, AT THE PORT OF OAKLAND CLAY STREET PIER. Wreck Area SURVEYED BY THE CORPS OF ENGINEERS. ELEVATION: 9.56 FEET MLLW - PUBLISHED 21 APR 2003 ON NOAA STATION 941 4764 TIDE GAUGE LOCATION IS CHISEL MARK Sheet APPROX. 10 FEET WEST ON TOP OF CONCRETE CURB; CHISEL ELEVATION 11.0 FEET MLLW. LPCP 1: 941 4777 B TIDAL/PID AE5211, OAKLAND INNER REACH 1-3 DISK SET IN BALLARD FOUNDATION Reference NEAR THE NORTHEAST END OF BERTH 40 OF THE OAKLAND MIDDLE HARBOR.
ELEVATION: 13.48 FEET MLLW - DERIVED FROM WGS-84 ELLIPSOID ELEVATION, GEOID09 AND VDATUM MODELS
TIDE GAUGE LOCATION IS IN FACE OF PILING AT BERTH 37; NAIL ELEVATION 9.7 FEET MLLW.
LPCP 2: OAK OUTER 1 2012/NO PID, OAKLAND OUTER REACH 7-10 DISK SET IN PARKING LOT AT PIER 6 AMNAY TUG TERMINAL Submerged Wreck Shoalest Sounding* *SHOALEST SOUNDING PER QUARTER PER REACH Number Angle Point 2 of 8 AT THE EDGE OF THE PIER. ELEVATION: 14.04 FEET MLLW - DERIVED FROM WGS-84 ELLIPSOID ELEVATION, GEOID09 AND VDATUM MODELS TIDE GAUGE LOCATION IS IN FACE OF PILING AT PIER 6, 10' EAST OF BENCHMARK, NAIL ELEVATION 10.1 FEET MLLW.

U.S. ARMY CORPS OF ENGINEERS 122°20'40"W 37°48'10"N 122°20'30"W 122°20'20"W 122°20'10"W 37°48'20"N 122°20'0"W 122°19'50"W 6,030,825 US Army Corps of Engineers San Francisco District FLOOD -450 Golden Gate Ave San Francisco, CA 94102 1:2,400 1 inch = 200 feet Absolute Scale Relative Scale (ANSI D 22x34) OAKLAND HARBOR REACH 1 POST-DREDGE SURVEY 28 JANUARY 2019 6,030,825 6,033,825 122°20'30"W 122°20'20"W 122°20'10"W 122°20'0"W 122°19'50"W 122°19'40"W 37°47'50"N NOTES:
HORIZONTAL COORDINATE SYSTEM:
NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE 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 Federal Navigation Channel Contours Beacon, General POI THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY. SYSTEM (SPCS), CALIFORNIA ZONE III. DISTANCE UNITS IN U.S. SURVEY FEET. THE PROJECT DEPTHS ARE AS FOLLOWS: OUTER AND INNER HARBOR IS -50 FEET Shoaling Area **Obstruction Point** INNER HARBOR TURNING BASIN TO PARK STREET BRIDGE IS -35 FEET. SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER. 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.
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PRIMARY: RTK POSITIONING TIDAL CANAL PROJECT DEPTH IS -18 FEET. Placement Area 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. Navigation Buoy Anchorage Area SECONDARY: COAST GUARD DGPS D-BEACON SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT. VERTICAL CONTROL: SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY. PPCP: PORT 1 1936/PID HT0654. Navigation Buoy OAKLAND INNER, REACH 4-6 DISK SET AT SOUTH END OF CLAY STREET, AT THE PORT OF OAKLAND CLAY STREET PIER. Wreck Area SURVEYED BY THE CORPS OF ENGINEERS. ELEVATION: 9.56 FEET MLLW - PUBLISHED 21 APR 2003 ON NOAA STATION 941 4764 TIDE GAUGE LOCATION IS CHISEL MARK Sheet BASE MAPS ARE USDA NAIP 2010. APPROX. 10 FEET WEST ON TOP OF CONCRETE CURB; CHISEL ELEVATION 11.0 FEET MLLW. LPCP 1: 941 4777 B TIDAL/PID AE5211, OAKLAND INNER REACH 1-3 DISK SET IN BALLARD FOUNDATION Reference Shoalest Sounding* NEAR THE NORTHEAST END OF BERTH 40 OF THE OAKLAND MIDDLE HARBOR.
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