

Oakland Outer Harbor



OAKLAND OUTER AND INNER HARBORS

EXTRACTED FROM SURVEYS BY THE CORPS OF ENGINEERS - DATES AS FOLLOWS:

NAME OF CHANNEL	DATE SURVEYED	DEPTH	WATER	DEPTH	WATER	DATE OF SURVEY	DEPTH	WATER
San Francisco Bay Entrance Channel	1899	42.0	42.0	42.0	42.0	1899	100.00	0.00
Outer Harbor Entrance Channel	1899	42.0	42.0	42.0	42.0	1899	100.00	0.00
Inner Harbor Entrance Channel	1899	42.0	42.0	42.0	42.0	1899	100.00	0.00
San Francisco Bay Entrance Channel	1899	42.0	42.0	42.0	42.0	1899	100.00	0.00
Outer Harbor Entrance Channel	1899	42.0	42.0	42.0	42.0	1899	100.00	0.00
Inner Harbor Entrance Channel	1899	42.0	42.0	42.0	42.0	1899	100.00	0.00

NOTE: A depth of 30.0 feet was available in the middle half of the channel. A depth of 30.0 feet was available in the middle half of the channel. A depth of 30.0 feet was available in the middle half of the channel.

TIDAL INFORMATION

Name	Latitude	Longitude	Mean High	Mean Low	High Water	Low Water
San Francisco Golden Gate	37° 46' N	122° 27' W	0.0	0.0	1.1	1.1
Oakland Inner Harbor	37° 47' N	122° 27' W	0.0	0.0	1.1	1.1
Oakland Outer Harbor	37° 48' N	122° 27' W	0.0	0.0	1.1	1.1
Alameda	37° 49' N	122° 27' W	0.0	0.0	1.1	1.1
East Oakland	37° 50' N	122° 27' W	0.0	0.0	1.1	1.1
San Leandro	37° 51' N	122° 27' W	0.0	0.0	1.1	1.1

NOTE: River range light has been removed and replaced by a range light. Range light has been removed and replaced by a range light. Range light has been removed and replaced by a range light.

OAKLAND INNER HARBOR BRIDGE

CAUTION: Flood and floating obstructions, so to summarize, may occur in the vicinity of the bridge. Flood and floating obstructions, so to summarize, may occur in the vicinity of the bridge. Flood and floating obstructions, so to summarize, may occur in the vicinity of the bridge.

San Leandro Channel

Bay Farm Island

Metropolitan Oakland International Airport

San Leandro Bay

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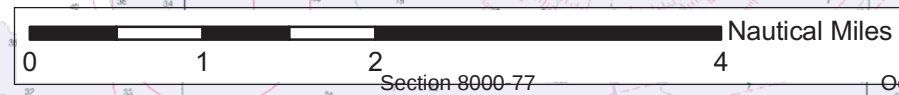
Bay Farm Island

Metropolitan Oakland International Airport

San Leandro Bay

Legend

- Sensitive Sites
- ⚓ Potential Places of Refuge



Sector SF

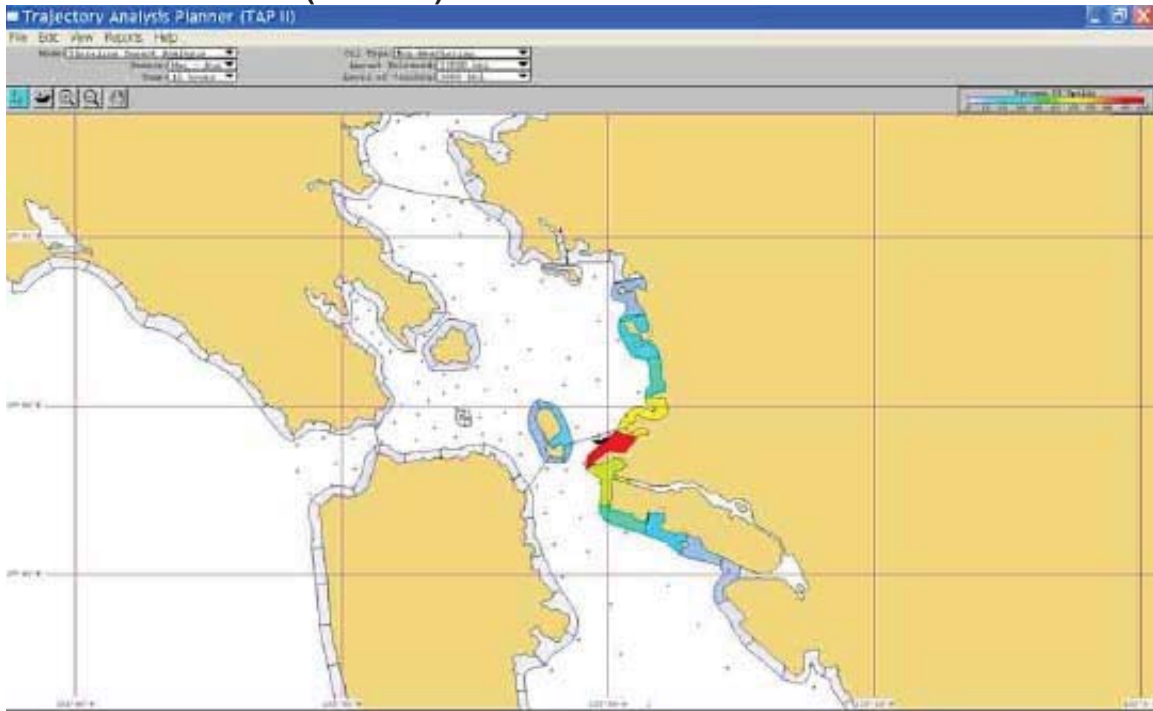
Section 8000-77

October 1, 2011

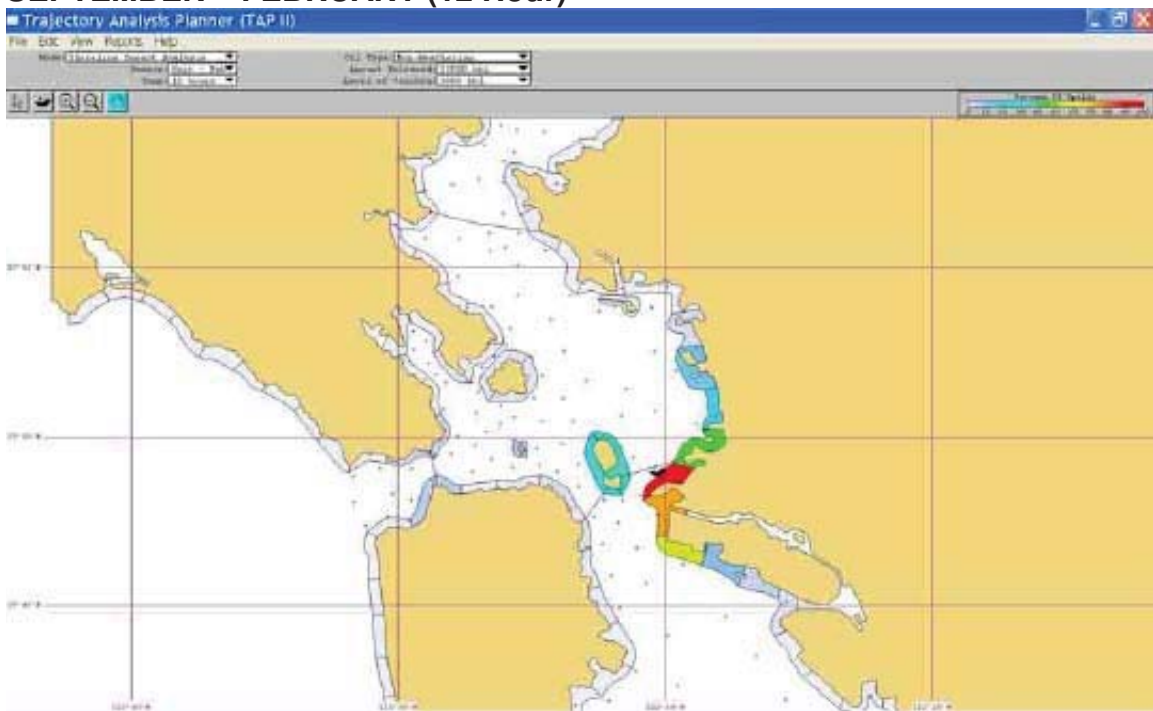
TRAJECTORY ANALYSIS PLANNER (TAP Model)

Location: 2-C00 (Berths 55-68)
2-C02 (Berths 20-38)

MARCH – AUGUST (12 Hour)



SEPTEMBER – FEBRUARY (12 Hour)



PPOR Pre-Incident Information SummaOakland Outer Harbor: any site

Latitude 37° 49. 122.3 Longitude 122° 1 122.317

County Alameda

2-C00

Type:

Dockage

Location Description:

Port of Oakland is a major West Coast port for maritime commerce and shipping. Port of Oakland occupies 19 miles on the mainland shore of SF bay. There are more than 770 acres of terminal facilities, 20 deepwater container berths and 36 cranes, including 31 of the post Panamax type.

Natural Resource Concerns and Issues for this Place / Site

Threatened and Endangered Species (TAES):

Alameda NAS-(S/F E/E) California least tern, present Apr-Aug, nest May-Aug, restoration area.

San Leandro Bay/Arrowhead Marsh-(S/F E/E) California clapper rail present year-round and nests Mar-Jul, (S-T) black rail nests Mar-May,(S/F E/E) salt marsh harvest mouse, (S/F T/T) salt marsh wandering shrew present year-round, (SSC) salt marsh common yellowthroat present year-round. Also, (S/F-E/E) California least tern forage.

Bay Farm Island (F/T) Western snowy plover nest present from Feb-Sep, rare plant alkali milk-vetch present year round.

YBI-(S/F E/E) peregrine falcon present year-round, nest Mar-Aug.

Emeryville Lagoon/Mudflat (S/F-E) California clapper rail, (S/F-E) salt marsh harvest mouse present year-round, also North Coast bird's beak (rare plant).

Sensitive Non-protected (Non-TAES) Species:

SFACP2: 307C/A,309A,310C/A,351A/B,490A,495A; ESI/SFB-Maps 17,18,21

Alameda NAS eelgrass, harbor seal haulout area. Eelgrass beds support herring spawning during winter, seabirds/shorebirds utilize area year-round, brown pelican May-Nov. San Leandro Bay/Arrowhead Marsh supports listed species, rare/sensitive plants, wading birds, shorebirds and waterfowl, brown pelican. Bay Farm Island eelgrass beds support herring spawning during winter, seabirds/ shorebirds use area year-round. YBI-Small cobble pocket beaches south side of island are pinniped haulout and rookery Mar-Jun, bird roosting (double-crested cormorant) year-round and nesting. East span Bay Bridge supports large double-crested cormorant colony. Emeryville Lagoon/Mudflat important habitat for seabirds, shorebirds, migratory waterfowl for

Critical Habitat for TAES:

Arrowhead Marsh supports number of listed/sensitive species and currently has the highest density of breeding clapper rails in San Francisco Bay. Emeryville lagoon/mudflat provides pickleweed habitat for listed species.

Critical Habitat for Non-protected (Non-TAES) Species:

PPOR Pre-Incident Information SummaOakland Outer Harbor: any site

Latitude 37° 49. 122.3 **Longitude** 122° 1 122.317

County Alameda

2-C00

Type:

Dockage

roost/ forage, listed species, rare plants.

Subsistence–use Species:

Critical Habitat for Subsistence Species:

Essential Fish Habitat:

Historic and Cultural Resources:

Cultural/historic resources likely present in/around Arrowhead Marsh and Bay Farm Island.

Commercial Fisheries / Species:

Recreational Species and Habitat:

Commercial fishing from TI/YBI. Herring spawning in shorelines of Berkeley and Emeryville eelgrass beds.

Elsie Roemer Bird Sanctuary located southeast end of Crown Beach.

Human Health / Safety Concerns and Economic Issues for this Place / Site

Human Health and Safety

Economic Impact on Maritime Commerce and Shipping:

Oakland is the sixth–most–populous metropolitan area in the United States. Based on 2006 statistical data, Oakland is the 44th–largest city in the United States. The California Department of Finance estimates that Oakland's population on January 1, 2008 was 420,183.

Redundant piers and accommodations exist to counter problems that may arise as a result of a Places of Refuge incident. As long as shipping channels are clear of obstructions, most commercial shipping will continue.

Economic Impact on Commercial Fishing and Aquaculture:

San Francisco has a large–scale commercial fishing industry. Recent Cosco Busan oil spill in Nov 2007 is evidence enough to show how 50000 gals of oil can ruin recreational and commercial fishing. Port of Oakland patrons may be affected.

Economic Impact on Non–maritime Commerce:

Collateral effects due to a disturbance in intermodal transportation systems may happen if the maritime transportation system is obstructed.

Economic Impact on Recreational Fishing and Marine Tourism:

Oakland is largely a container port and not normally known for recreational fishing. Jack London Square is the central tourist area with a maritime nexus. San Francisco has a large–scale commercial fishing industry Recent Cosco Busan oil spill in Nov 2007 is evidence enough to show how 50000 gals of oil can ruin recreational and commercial fishing. Marine Tourism might be affected as a result of a Places of Refuge incident.

Other Economic Impacts:

Airborne release of a hazardous substance or a catastrophic incident will most likely impact population desire to stay away from affected areas or any large metropolitan areas due to a fear factor.

Stakeholder List for this Place / Site

Name / Title	Organization
Park Supervisor	EBRPD-Crown Memorial State Beach
Shoreline Unit Manag	East Bay Regional Park District
Park Supervisor	EBRPD-Martin Luther King Shoreline Park
State Water Project	CA Dept. of Water Resources

Phone more details

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