

South Bay Anchorages



NAME	TYPE	CLASS	NO.	DATE	REMARKS
2-490	Sensitive Site	1	1	1/1/11	
2-495	Sensitive Site	1	1	1/1/11	
2-401	Sensitive Site	1	1	1/1/11	
2-351	Sensitive Site	1	1	1/1/11	
2-400	Sensitive Site	1	1	1/1/11	
2-350	Sensitive Site	1	1	1/1/11	
2-354	Sensitive Site	1	1	1/1/11	
2-353	Sensitive Site	1	1	1/1/11	
2-352	Sensitive Site	1	1	1/1/11	
2-310	Sensitive Site	1	1	1/1/11	
2-307	Sensitive Site	1	1	1/1/11	
2-309	Sensitive Site	1	1	1/1/11	
2-312	Sensitive Site	1	1	1/1/11	
2-315	Sensitive Site	1	1	1/1/11	
2-320	Sensitive Site	1	1	1/1/11	
2-324	Sensitive Site	1	1	1/1/11	
2-361	Sensitive Site	1	1	1/1/11	
2-E08	Potential Place of Refuge	1	1	1/1/11	
2-E09	Potential Place of Refuge	1	1	1/1/11	
2-E12	Potential Place of Refuge	1	1	1/1/11	
2-E14	Potential Place of Refuge	1	1	1/1/11	
2-E00	Potential Place of Refuge	1	1	1/1/11	

Legend

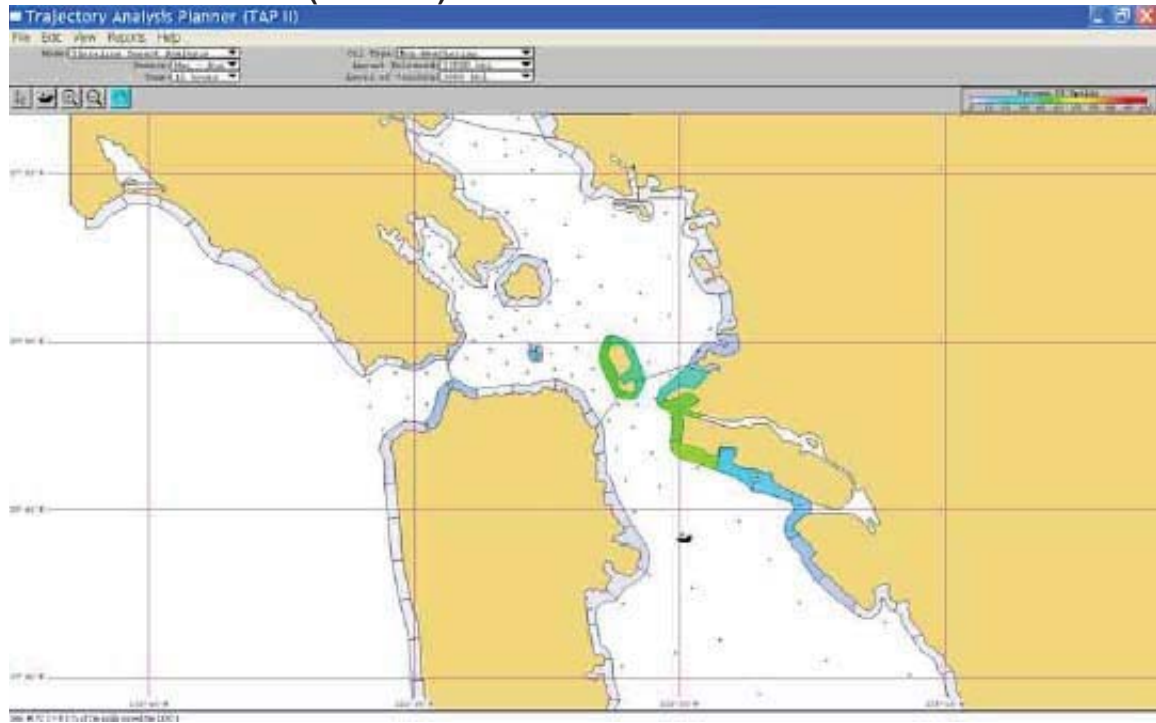
- Sensitive Sites
- Potential Places of Refuge

0 1.25 2.5 5 Nautical Miles
Section 8000-85

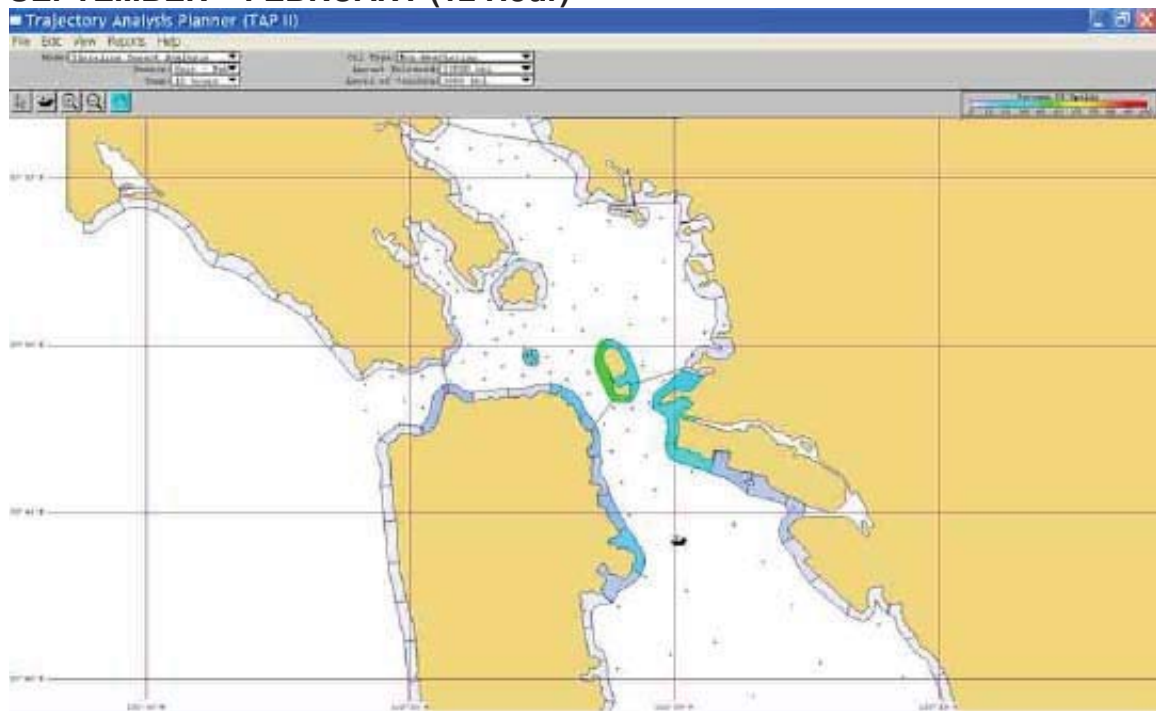
October 1, 2011

TRAJECTORY ANALYSIS PLANNER (TAP Model)
Location: 2-E12 (Anchorage 12)

MARCH – AUGUST (12 Hour)



SEPTEMBER – FEBRUARY (12 Hour)



PPOR Pre-Incident Information Summary South Bay Anchorages: Anchorage 12

Latitude 37° 44. 122.3 Longitude 122° 2 122.342

County San Francisco-Alameda

2-E12

Type:
Anchorage

Location Description:

In San Francisco Bay east of the city of San Francisco a circular area having a radius of 500 yards centered at latitude 37°44'32.5" N., longitude 122°20'27.5" W. A 667-yard-wide forbidden anchorage zone surrounds this anchorage.

Marshes in this area support large populations of endangered California clapper rails and salt marsh harvest mice, and managed ponds support the largest population of Western snowy plovers in San Francisco Bay. The Bair Island Restoration Project and the South Bay Salt Pond Restoration Project (the largest tidal marsh restoration project on the west coast of the United States) are being implemented within this area by the USFWS and the California Department of Fish and Game. Almost 20,000 acres of former commercial salt ponds are targeted for restoration in the South Bay.

Natural Resource Concerns and Issues for this Place / Site

Threatened and Endangered Species (TAES):

(East Shoreline)

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 present Feb-Sep, also rare plant alkali milk-vetch present year-round.

Oyster Bay Marshes-(F/T) Western snowy plover nest present from Feb-Sep; (S/F T/T) salt marsh wandering shrew present year-round.

San Lorenzo Creek/Bunker & North marshes - (S/F E/E) California clapper rail present year-round and (S-T) black rail forage and nest, (S/F E/E) salt marsh harvest mouse present year-round. (S/F E/E) California least tern forage.

Oro Loma, Frank's Dump West & Triangle marshes - (S/F E/E) California clapper rail and (S-T) black rail forage and nest, (S/F E/E) salt marsh harvest mouse present year-round. S/F E/E California least tern and (F/T) western snowy plover forage.

Critical Habitat for TAES:

Arrowhead Marsh supports a number of listed/sensitive species and currently has the highest density of breeding California clapper rails in San Francisco Bay. Emeryville lagoon/mudflat provides pickleweed habitat for listed species. East Bay Regional Park District shoreline salt marshes support number of listed species.

Heron's Head Park/India Basin and Islais Creek/Pier 94 have high value as salt marsh habitat on industrialized SF Peninsula. Also suitable habitat for presence of (S/F-E/E) salt marsh harvest mouse.

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Cogswell, Hayward & HARD marshes – (S/F E/E) California clapper rail present year-round, forage and nest; (S/F E/E) salt marsh harvest mouse present year-round; (S/F E/E) California least tern present Apr-Aug, nests May-Aug; (F/T) western snowy plover forage/nest in salt-pond area.

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).

(West Shoreline)

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

Heron's Head Park/India Basin and Islais Creek/Pier 94: (F/E) California seablite plant present year-round at HHP. Both potential suitable habitat for (S/F-E/E) salt marsh harvest mouse.

Colma Creek area marshes – (S/F E/E) California clapper rail present year-round, nesting Mar-Jul.

Airport Mudflat – (S/F E/E) California clapper rail present year-round in marsh in back of cove, nesting Mar-Jul.

(S/F E/E) California clapper rail present year-round in several small strip marshes between Colma Creek and Bair/Greco area, nesting Mar-Jul.

Sensitive Non-protected (Non-TAES) Species:

SFACP2:307C/A,309A,310C/A,312A,315A,320A,324A,350E/X,351A/B,352B,353A,354A,361A,400C/X,401B,490A,495A; ESI/SFB-Maps 16,17,18,19,20, 21,22

(East Bay Shoreline) Alameda NAS eelgrass, harbor seal haulout area. Alameda eelgrass beds support herring spawning in 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, waterfowl, brown pelican forage. Bay Farm Island eelgrass beds support herring

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

East Bay Regional Park District shoreline salt marshes have extensive cordgrass and mudflats which support listed and non-listed species.

In general, extensive mudflats on both east and west bay shorelines support heavy use by variety of shorebirds (e.g., herons and egrets), wading and diving birds, and harbor seals. Open waters support heavy use by migratory waterfowl. Sloughs, mudflats support fish, shellfish, infauna.

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spawning in winter, seabirds/shorebirds utilize area year-round. Oyster Bay marshes and mudflats support migratory waterfowl, shorebirds. San Lorenzo Creek/Bunker & North marshes and Oro Loma, Frank's Dump West & Triangle marshes and Cogswell, Hayward, HARD marshes support heavy use by migratory waterfowl, shorebirds, wading (e.g., heron, egret nesting), and diving (Caspian terns) birds. East span Bay Bridge supports large double-crested cormorant colony. Emeryville Lagoon/Mudflat important habitat for seabirds, shorebirds, migratory waterfowl for roost/forage, listed species, rare plants.

(West Bay Shoreline) SF South Collection-herring spawn in winter, seabirds and fish present year-round. YBI-Small cobble pocket beaches south side island are pinniped haulout/rookery Mar-Jun, bird roosting (double-crested cormorant) year-round, nesting. South Basin/Hunters Point important fringe marshes, tidal mudflats, eelgrass, concentrations waterfowl/shorebirds present year-round, higher numbers (1000s) in winter, brown pelican May-Nov. Heron's Head Park/India Basin and Islais Creek/Pier 94 wetland restoration sites with high ground vegetation, pickleweed marsh, saltmarsh ponds/lagoons, mudflats supporting variety water birds, shorebirds, upland songbirds. Airport Mudflat and cove serve as feeding/resting area for waterfowl, wading birds, shorebirds, highest use in winter. SF Waterfront herring spawning in winter, birds roost/forage year-round. Pier 39 sea lion haulout year-round, highest numbers Aug-Mar.

Subsistence-use Species:

Essential Fish Habitat:

Bay fish species move in/out of channels and ponds in these areas.

Commercial Fisheries / Species:

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

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

Human Health and Safety

Anchorage 12 is near the east shore of Sausalito in Marin County with a

Critical Habitat for Subsistence Species:

Historic and Cultural Resources:

Cultural/historic resources likely present in/around Arrowhead Marsh and Bay Farm Island. EBRPD shoreline Ohlone cultural sites in area. Hayward Landing is historic site.

Recreational Species and Habitat:

Elsie Roemer Bird Sanctuary located southeast end of Crown Beach.

Economic Impact on Maritime Commerce and Shipping:

Redundant piers and accommodations exist to counter problems that

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population OF 764,976.

2-E12

Type:
Anchorage

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 significantly affect recreational and commercial fishing.

Economic Impact on Recreational Fishing and Marine Tourism:

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 significantly affect recreational and commercial fishing. Marine Tourism might be affected.

Economic Impact on Non-maritime Commerce:

Nothing significant other than onward movements of cargoes from ships that may be stuck at anchorages

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

Phone

more details

Park Supervisor	EBRPD-Hayward Regional Shoreline Park	(510) 544-3082	
Park Supervisor	EBRPD-Martin Luther King Shoreline Park	(510) 544-3115	
Park Supervisor	EBRPD-Crown Memorial State Beach	(510) 544-3171	
Shoreline Unit Manag	East Bay Regional Park District	(510) 544-3172	
Dispatch	East Bay Regional Park District	(510) 881-1833	
City of Alameda, Parks	City of Alameda Dept. of Parks and Recreation	(510) 748-4565	
Joy Albertson	US Fish & Wildlife Service, SF Bay (NWR)	(510) 792-0222	
Carol Bach	Port of San Francisco	(415) 274-0568	
Baylands Nature Pres Office	Baylands Nature Preserve	(650) 329-2506	
John Bradley Refuge Manager	SF Bay National Wildlife Refuge Complex	(510) 792-0222	
Dispatch GGNRA	US National Park Service, Golden Gate (NRA)	(415) 561-5505	
John Krause	CA Dept. of Fish & Game, Region 3	(415) 454-8050	
Clif Marceetti Marina Manager	Berkeley, City of, Dept. of Parks	(510) 981-6737	
Butch Paredes	Cargill Salt	(510) 790-8165	
City of San Francisco	San Francisco, City and County of	(415) 556-8371	
Linda Scourtis	SF Bay Conservation and Development Commission	(415) 352-3644	
Operations State Water Project	CA Department of Water Resources	(916) 574-2714	

Characteristics and Tactical Considerations

Primary Jurisdictional Contact:

USCG Sector SF

SF PIER 24: 37-47.42, 122-23.24

Approximate Tug Response Time

1 HOUR

Sector SF

Section 8000-108

October 1, 2011

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List of Nearby Environmentally Sensitive Sit **SFACP2:307C/A,309A,310C/A,312A,315A,320A,324A,350E/X,351A/B,352B,353A,** Is Containment Possible? ☐

Coast Pilot and Navigation Chart Information

Prevailing Winds	Tidal Range	Bottom Type	Max Water Depth	Min Water Depths	Currents	Sea Conditions	Fog	Shelter From Severe Storms	Navigational Approach
W	6	MUD	60	0			SEASONAL		

Pilot Requirements ☐

Specific Site Details

Site ID	Site Name	Vessel Capacities				Site Capacities and Facilities		ContainmentPossibilities:
		Max Size	Mini Size	Max Draft	Swing Room or Dock Face	Facilities, capabilities, and any other issues or concern		
12	Anchorage 12	1500	Deep	50		SWING ROOM OR DOCK FACE: 1/2 MILE SF PIER 22 1/2 IS HOME OF FIRE BOAT GUARDIAN AND PHOENIX SF PIER 22 1/2 IS HOME OF FIRE BOAT GUARDIAN AND PHOENIX; OTHER FIREFIGHTING RESOURCES COME FROM FOSS/CHEVRON/OAKLAND AND RICHMOND.	Potential for successful primary containment increases the further south one goes in the Bay because currents significantly diminish to the south. Anchorage 8 is not likely to have good primary containment. Potential for secondary confinement of oil escaping primary containment is minimal because the only opportunity is the openwater which is problematic due to spreading even if there is no current exceeding 0.7 knt.	

Site Contact/Leasee/Owner: