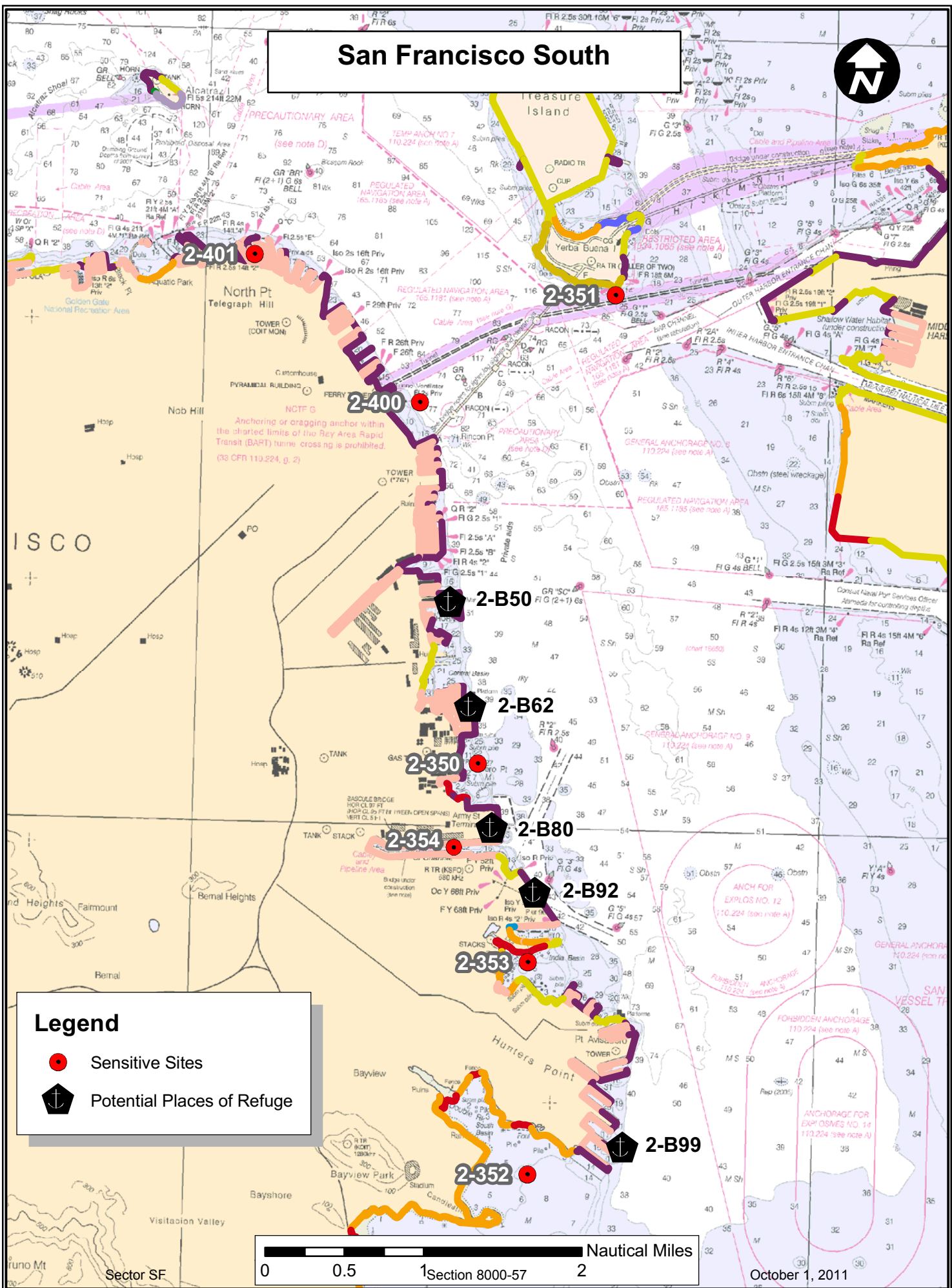


San Francisco South



Legend

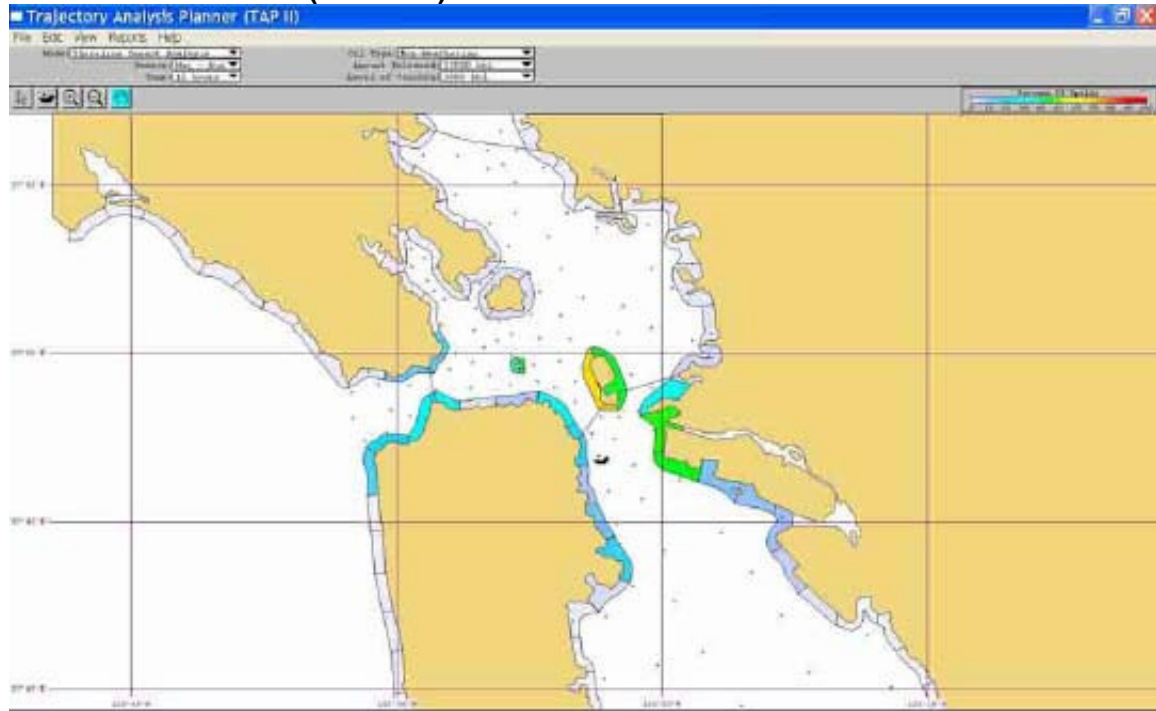
- Sensitive Sites
- ⚓ Potential Places of Refuge

0 0.5 1 2 Nautical Miles

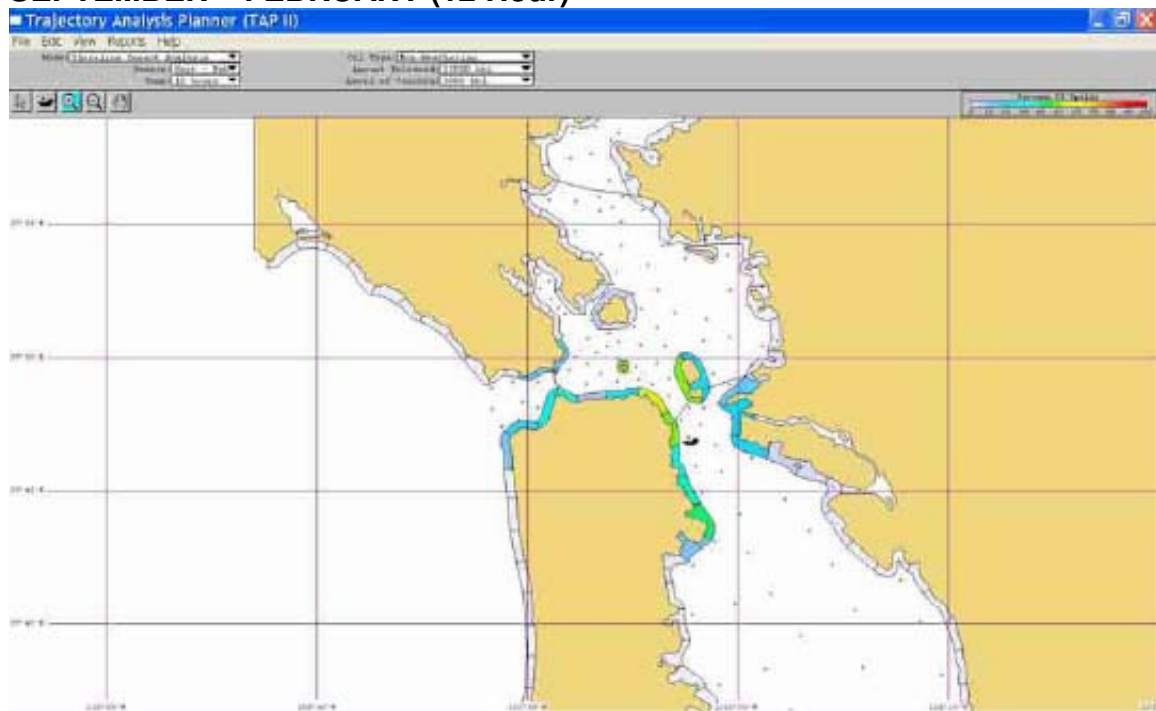
October 1, 2011

TRAJECTORY ANALYSIS PLANNER (TAP Model) Location: 2-B50 (Pier 50)

MARCH – AUGUST (12 Hour)



SEPTEMBER – FEBRUARY (12 Hour)



PPOR Pre-Incident Information SummaSan Francisco South: Pier 50**2-B50**

Latitude 37° 46. 122.4 Longitude 122° 2 122.383

County San Francisco

Type:

Dockage

Location Description:

Pier 50 (Mission Rock Terminal) is a comparatively good characteristics for docking distressed vessels. It is in a highly industrial area with few residences or commercial activities in the immediate area. Prevailing winds are from west and north and away from land. There are relatively few nearby natural resources of concern or fisheries and significant opportunities for containment on the north and south sides but not on the east face. Use of this pier is for breakbulk and lay berth.

37 deg 46' 24" N., 122 deg 22' 50"W: N side is 1575 feet long; S side is 1480 feet long; 35 feet alongside; face is 1000 feet, 45 feet alongside; 6 berths; four transit sheds, 231,000 square feet of covered storage; mooring vessels; various operators.

Natural Resource Concerns and Issues for this Place / Site

Threatened and Endangered Species (TAES):

YBI-(S/F E/E) peregrine falcon present year-round, nest March–August.

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.

Critical Habitat for TAES:

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.

Sensitive Non-protected (Non-TAES) Species:

SFACP2:350E/X,351A/B,352B,353A,354A,400C/X,401B; ESI/SFB–Maps 16,19,20

SF South Collection–herring spawn during winter, seabirds and fish present year-round. YBI–Small cobble pocket beaches south side of island are pinniped haulout and rookery March–June, bird roosting (double–crested cormorant) year-round and nesting. South Basin/Hunters Point important fringe marshes, tidal mudflats, eelgrass, with concentrations of waterfowl, shorebirds present year round and in higher numbers (1000s) during winter, brown pelicans May–Nov. Heron's Head Park/India Basin and Islais Creek/Pier 94 are wetland restoration sites with high ground vegetation, pickleweed marsh, saltmarsh ponds/lagoons, mudflats supporting variety of water birds, shorebirds and upland songbirds. SF Waterfront herring spawning in winter, birds roost and forage year-round. Pier 39 sea lion haulout year-round, highest numbers August–March.

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

Subsistence–use Species:

Critical Habitat for Subsistence Species:

Essential Fish Habitat:

Historic and Cultural Resources:

PPOR Pre-Incident Information SummaSan Francisco South: Pier 50**2-B50****Latitude** 37° 46. 122.4 **Longitude** 122° 2 122.383

County San Francisco

Type:
Dockage

Commercial Fisheries / Species:

Commercial fishing from TI/YBI.

Recreational Species and Habitat:

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

Human Health and Safety

Approximately 55,000 people live, work or play near this site.

Economic Impact on Maritime Commerce and Shipping:

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:

Port of San Francisco has a large-scale commercial fishing industry. Recent Cosco Busan oil spill in Nov 2007 is evidence enough to show how 50,000 gals of oil can significantly affect recreational and commercial fishing.

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:

Port of San Francisco has a large-scale commercial fishing industry. Recent Cosco Busan oil spill in Nov 2007 is evidence enough to show how 50,000 gals of oil can significantly affect recreational and commercial fishing. Marine Tourism might be affected.

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
E/T	Carol Bach	Port of San Francisco	(415) 274-0568	
E/C	Bill Doll Chief of Resources	San Francisco Maritime National Historical Park	(415) 859-6779	
O	City of San Francisco	San Francisco, City and County of	(415) 556-8371	
E	Sidonie Sansom DirHomeland Security	Port of San Francisco	(415) 274-0544	
O	Linda Scourtis	SF Bay Conservation and Development Commissio	(415) 352-3644	
T	Vika Sirova EnvProtectSpecialist	US National Park Service, Golden Gate (NRA)	(415) 561-4478	
T	Brian Ullensvang Env. Programs Chief	Golden Gate National Recreation Area - NPS	(415) 561-4439	

Characteristics and Tactical Considerations

Primary Jurisdictional Contact: Port of San Francisco

Marine Fire Fighting Resources SF PIER 24: 37-47.42, 122-23.24

Approximate Tug Response Time 1 HOUR

PPOR Pre-Incident Information Summary San Francisco South: Pier 50**2-B50****Latitude** 37° 46. 122.4 **Longitude** 122° 2 122.383Type:
Dockage

County San Francisco

List of Nearby Environmentally Sensitive Sites: SFACP2: 2-350E/X,2-351A/B,2-352B,2-353A,2-400C/X,2-401B; ESI/SFB - Maps 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	Pilot Requirements
W	6	MUD	38	0			SEASONAL	YES		<input checked="" type="checkbox"/>

Specific Site Details

Site ID	Site Name	Vessel Capacities			Site Capacities and Facilities		
		Max Size	Mini Size	Max Draft	Swing Room or Dock Face	Facilities, capabilities, and any other issues or concern	Containment Possibilities:
50	Pier 50	Deep	1100	38	1000	1000 IS THE MAX LENGTH OF VESSEL ABLE TO BE AT THIS SITE. 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.	All the piers within this place have poor containment on the ends exposed to the Bay currents, but have significant potential for containment on the north and south sides of the piers, particularly if other vessels are already positioned on the opposite side of the wharf. Secondary confinement of oil escaping containment is variable and not particularly good except at the SF Dry Dock.
Site Contact/Leasee/Owner:							