

2-400-X Site Summary - San Francisco Waterfront Collection/Protection**2-400-X****County:** San Francisco **ACP Division/Segment:** SF - E - S005 SF - E - S001**NOAA Chart:** Entrance to San Francisco Bay18649 **Map Book:** AAA - San Franc **Decimal Degrees:** 37.791037 -122.388691**Site Description:**

The site consists of the shoreline of San Francisco from Fort Mason to the Bay Bridge. This shoreline consists of manmade structures including piers, seawalls and rip-rap. The bottom of the channels generally consist of soft sediments. Currents can be strong, approaching 6 knots. Shoreline jurisdiction ranges from Fort Mason National Park Service (NPS) to the Port of San Francisco. Pacific herring spawn on pier pilings during the winter months (Nov-Feb) which makes them vulnerable to HAZMAT spills and cleanup operations.

Resources at Risk:*ESI and Habitat:* 8B Sheltered solid man-made structures

6B Riprap

8C Sheltered riprap

List of Resources at Risk:

	Resource Name	Status	Presence	Sensitivity
Birds	seabirds		Year-round	
Birds	double-crested cormorant	FP	Year-round	May-Jul
Fish	Pacific herring		Year-round	Nov - Apr
Fish	longfin smelt	ST	Year-round	Nov - May

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

List of Key Contacts:

Type	Name/Title	Organization	Phone
C	/Coordinator	Native American Heritage Commission	(916) 373-3710
C	/Coordinator	Northwest Information Center	(707) 588-8455
E	/Duty Officer (24hr)	San Francisco Dept. of Emergency Management	(415) 260-2591
O	/Dispatch, 24-hr	The Marine Mammal Center	(415) 289-7350
T	/Agency Representative	California Department of Fish and Wildlife	(707) 644-2812
T	/Dispatch, 24-hr	US National Park Service, Golden Gate NRA	(415) 561-5505

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

Additional Site Summary Comments:

Concerns and Advice to Responders:

This collection strategy should be used to take advantage of the slow water between piers and the boats at anchor to divert oil out of swifter along shore currents to shoreline where collection is possible.

Hazard and Restrictions:

There are submerged obstructions to navigation in many areas, sunken vessels and old pier pilings depending on tidal height.

Site Strategies:**Site Validation Level: II**

Strategy: 2-400.1 Objective: Deflect to Collection at shoreline: recover oil at seawalls where there is shoreline access. Deflect oil to areas where current is slowest to minimize the distance the oil travels, especially on the ebb tide.

Strategy: Deflect oil to the shoreline and setup shore side skimmers (SSS). Some potential collection sites are at the steps on the promenade near the foot of Howard St. and/or the foot of pier 39. Also, deploy short pieces of small boom between piers and other manmade structures down current from the spill source to direct oil to slowest waters at shoreline. The boom should be placed at an angle to the current to prevent entrainment, and should be tightened sufficiently to prevent the current from bending the boom such that some portion of it is perpendicular to the current. Where oil entrains under a boom, another length of boom must be placed down current of the first to catch the entrained oil and deflect it to slower moving water near shore.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		6000	feet	
Boom	Sorbent			500	feet	
Anchor	Danforth	22 lb		30		
Vessel	Boom Boat			2		
Vessel	Skiff or Punt			2		
skimmer	self propelled			1		
Staff	Staff to Deploy	10				

Logistics:

Directions: Boat launch ramp near pier 50 at Mission Rock Resort, 817 China Basin St. Shoreline access from the Embarcadero and China Basin St.

Land Access: There is access for large trucks on most piers and seawalls.

On-Water Limitations: There are submerged pilings nearshore (tidal height dependent).

Facilities, Staging Areas, Command Posts, Available Equipment: Flat paved areas for staging and field posts are common throughout this area.

Communications Problems: Good cell reception throughout.

