

**2-454-A Site Summary - Richmond Inner Harbor/Hoffman Marsh****2-454-A****County:** Contra Costa **ACP Division/Segment:** CC - Z - S018 CC - Z - S028**NOAA Chart:** Entrance to San Francisco **Map Book:** AAA Richmond **Decimal Degrees:** 37.906068 -122.328611 Bay 18649**Site Description:**

This site lies near the southern boundary of the city of Richmond and is bounded on the north by the residential/business area east of the Richmond Marina, on the east by Hwy 580 and on the south by Point Isabel. Hoffman Marsh and most of the land bayward is managed by East Bay Regional Park District (EBRPD). This shallow bay surrounded by salt-marshes is biologically rich and very vulnerable to oiling. Most of the salt-marshes are tidally influenced and support pickleweed and various salt-marsh vegetation. Hoffman Marsh is separated from the bay by an old railroad grade and is connected to the Bay by a narrow channel, lined with rip-rap, which opens to the Bay at Point Isabel. The Inner Harbor marshes are protected by approximately two miles of rip-rap shoreline, with two openings to the Richmond Inner Harbor, each about a 300 meters across. There are extensive intertidal mudflats and shallows both in front and behind the rip-rapped shoreline.

**Resources at Risk:***ESI and Habitat:* 10A Salt - and brackish-water marshes

8C Sheltered riprap

8B Sheltered solid man-made structures

**List of Resources at Risk:**

	Resource Name	Status	Presence	Sensitivity
Birds	California Ridgeway's rail	FE, SE		Feb-Aug
Fish	longfin smelt	ST		Nov-May
Fish	Pacific herring			Nov-Apr
Mammals	salt-marsh harvest mouse	FE, SE		
Plants	eelgrass			

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	/Dispatch	California Department of Parks and Recreation	(916) 358-1300
E	/Dispatch/Watch Command	City of Richmond Police Department	(510) 233-1214
E	/Dispatch, 24-hr	Contra Costa Water District	(925) 688-8374
E	/Dispatch, 24-hr	East Bay Regional Park District	(510) 881-1833
E	/Shoreline Parks Manager	East Bay Regional Park District	(510) 881-1832
E	/Operations	Port of Richmond	(510) 215-4600
O	/Dispatch, 24-hr	The Marine Mammal Center	(415) 289-7350

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:**

Should oil enter the adjacent marsh, injury and death of vegetation and wildlife can be expected. Keep oil from entering the channels and embayments. Endangered species live in the salt-marshes year-round and may be injured by foot traffic. Oil is also a threat to the many birds which use the open water. Avoid tramping oil into marsh and sediments. Most of the property is under the jurisdiction of East Bay Regional Parks District (EBRPD). Consult with EBRPD personnel for access/entry into salt-marsh.

**Hazard and Restrictions:**

Navigational hazards include shallow water, a submerged pipeline and old pilings exist. The bottom sediment type is soft mud.

**Site Strategies:****Site Validation Level: II****Strategy: 2-454.1 Objective:** Exclude oil from marsh entry channels

*Strategy:* Exclude oil from two major entrances to the marshes and embayments:

- a) the southerly entrance is at Pt Isabel Regional Park (Central Avenue off of I-580) and includes two channel openings: first, a long narrow channel which leads about 2000 feet back to a marsh behind the railroad grade (Hoffman Marsh) and second, an opening to a large shallow embayment at the bayfront between the riprap shoreline (north of the channel to Hoffman Marsh) to a riprap breakwater about 100 yds offshore; (Use 1000 feet of 9X9+ exclusion boom from Pt Isabel to the breakwater tip in a shallow chevron formation, and back the harbor boom with 1100 ft of small boom; also, place a small chevron of boom backed with sorbent at the mouth of the long channel.)
- b) the northerly entrance is a wide gap in an east-west riprap levee at the north end of the embayment; (Exclude oil with 1100 ft 9X9+ Hboom in a long chevron formation.)
- c) there may also be small breeches in the riprap levees which are not shown on maps or strategy diagrams. Deploy 400 ft Hboom in chevron formation at such openings (not shown on diagram).

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		2500	feet	
Boom	Swamp	6x6 inch		1100	feet	
Boom	Sorbent			200	feet	
Anchor	Danforth	22 lb		8		
Vessel	Boom Boat			1		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			5		

**Strategy: 2-454.2 Objective:** Protection for splash-over or porous breakwater

*Strategy:* Breakwater can be topped by waves at high tide. Strategy may require 3000 ft sorbent boom on either side to prevent seepage through or splash over the breakwater when large concentrations of oil are present.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Sorbent			3000	feet	
Anchor	Stakes			16		
Staff	Staff to Deploy			4		

**Strategy: 2-454.3 Objective:** Protection booming

**Strategy:** If it appears that the initial response strategy will be unsuccessful, it is recommended that 5000 feet of 9X9+ Hboom be deployed along the outer edge of the mud flat outside the breakwater in the northeast corner of Richmond Inner Harbor. An example of this strategy is described in "Potential Oil-Spill Protection Strategies for San Francisco Bay, California" (Hayes and Montello, 1994)

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		5000	feet	
Anchor	Danforth	22 lb		11		
Vessel	Boom Boat			2		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			8		

**Logistics:**

**Directions:** From Coast Guard Island, take Highway 80 north and exit at Central Avenue. Turn left and proceed to the rear of the Costco Warehouse. If necessary, small boats can be launched over the beach from Point Isabel, but the nearest marina with a launch ramp is Richmond Marina just to the north. Vehicles may also access the area through Point Isabel Regional Park Shoreline. Turn right on Rydin from Central Ave. Contact East Bay Regional Park District (EBRPD) For access through locked gate(s).

**Land Access:** Good vehicle access. Coordinate with EBRPD Personnel for access points.

**On-Water Limitations:** Very shallow water in Richmond Marina, and Berkeley Marina. Launch from either marina.

**Facilities, Staging Areas, Command Posts, Available Equipment:** Good staging and field post space at Richmond Marina and MSRC Docks. Limited staging and field post opportunities at Point Isabel Regional Shoreline.

**Communications Problems:** Good cell reception throughout.

