

2-364 -A Site Summary- Bair Island

2-364 -A

County: **San Mateo**
USGS Quad: **Redwood Point, California**

Thomas Guide Location
NOAA Chart: **18649/18650 Entrance to SF Bay**

Latitude N
3 7 32
Longitude W
122 14

Last Page Update : 10/1/2017

SITE DESCRIPTION:

The site includes all of Bair Island between the mouths of Redwood Creek and Steinberger Slough. The "island" is located on the southwest shore of South San Francisco Bay, three miles south of the San Mateo-Hayward Bridge. It is part of San Francisco Bay National Wildlife Refuge and California Department of Fish and Wildlife Bair Island Ecological Reserve. This site includes Bair Island State Marine Park. Bair Island has an extensive marsh complex inside its levees. Water flows through breaches in several places around the island. A large fringe marsh exists outside the levee along Redwood Creek. It is bounded on the southeast by Redwood Creek, on the northwest by Steinberger Slough and on the south by Corkscrew Slough.

SEASONAL and SPECIAL RESOURCE CONCERNS

"A" priority all year. Endangered species are present all year. The greatest risk to harbor seals is during spring breeding season 15 March - 10 June: pups can ingest oil on female's fur during nursing; disturbance during brief lactation period (3-5 weeks) can reduce pup's survival after weaning. Moderate risk year-round from inhalation of volatile oil fractions and ingestion of contaminated prey.

RESOURCES OF PRIMARY CONCERN

This site has an extensive marsh complex inside its levees. Water flows through breaches in several places around the island. A large fringe marsh exists outside the levee along Redwood Creek and outer levees and islands. The bay frontage has an extensive tidal mudflat.

Sensitive bird species found here include: Endangered - California clapper rail, , California least tern; Threatened - western snowy plover; California Species of Special Concern: saltmarsh common yellowthroat, Alameda song sparrow. Also, California brown pelican, American peregrine falcon and large numbers of a wide variety of birds nest and winter here: shorebirds, waterfowl, wading birds, and waterbirds.

Sensitive mammals species found here include: endangered salt marsh harvest mouse and California species of special concern salt marsh wandering shrew. Harbor seals haul out along north side of creek. This is the largest harbor seal rookery in San Francisco Bay. Seal numbers during spring/breeding season have reached 350 adults + 100 pups, nonbreeding 5 - 70 seals.

The sloughs and mudflats are important habitat for fish, shellfish and infauna.

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Contact the California Dept of Parks and Recreation - Office of Historic Preservation (Eric Allison -(916) 653-9125), and the Northwest Information Center, (Bryan Much, Sonoma State College ((707) 332-1117)) for specific information on historic or cultural resources in this area.

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
E/T	Eric Mruz Mgr - Don Edwards NWR	US Fish & Wildlife Service, SF Bay (NWR)	(510) 792-0222

ADDITIONAL SITE SUMMARY COMMENTS:

2-364 -A Site Strategy - Bair Island

County and Thomas Guide Location

San Mateo

NOAA CHART
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Last Page Update : 1/21/2017

CONCERNS and ADVICE to RESPONDERS:

The concern is oil and response impacts to marsh, wildlife, and rare and endangered birds, animals and plants which are present year-round. Primary objective is to minimize exposure by excluding oil from entering openings to Bair Island and adjacent sensitive sites. Secondary objective is to minimize exposure and impacts to bay frontage marshes by protective booming. Always of concern is the impacts resulting from response and cleanup: avoid trampling marsh and sensitive plants and animals, avoid disturbing soft mudflats, and avoid trampling oil into marsh and mud.

HAZARDS and RESTRICTIONS:

Aircraft beware of overhead power lines nearby. Vessels be aware of shallow water.

SITE STRATEGIES

Strategy 2-364.1 Objective: Exclude oil from entering Bair Island interior marshes.

Deploy 3300' 9X9+ Hboom in a chevron across the large levee breach existing approximately halfway between Steinberger Slough and Redwood Creek. Place anchors at 500' intervals as necessary.

Strategy 2-364.2 Objective: Protective booming of exposed marsh frontage.

Deploy 4,000 ft of exclusionary tidal barrier boom around unleveed marsh on eastern Bair Island, northwest of Redwood Creek, beginning near levee breach midway along the bay side shore. Extend boom east and south into Redwood Creek channel. Connect with Hboom from Redwood Creek strategy (2-365-A).

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no type and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
2-364.1	3300	0		200	67 6/22+/danforth c chain	1	1		very shallow Bboat	5	2
2-364.2	0		4000 TBB		17 17/22+/danforth c chain & line	2	1		Very shallow water Bboat	10	2

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Bair Island has no vehicular access. By water it is at the mouth and to the north of Redwood Creek, just bayward of the Port of Redwood City. The site includes all of Bair Island between the mouths of Redwood Creek and Steinberger Slough. The "island" is located on the southwest shore of South San Francisco Bay, three miles south of the San Mateo-Hayward Bridge. It is part of San Francisco Bay National Wildlife Refuge and California Department of Fish and Wildlife Bair Island Ecological Reserve. This site includes Bair Island State Marine Park.

LAND ACCESS: Foot: no road access to Bair Island.

WATER LOGISTICS: Very shallow on bay frontage and at margins.

Limitations: depth, obstruction

Launching, Loading, Docking and Services Available: Port of Redwood City.

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

Staging at Port of Redwood City.

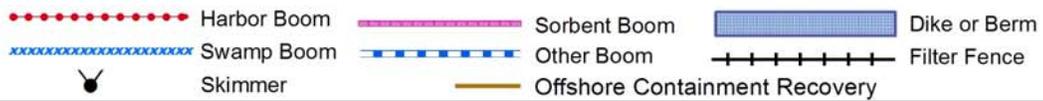
COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



CDFW - OSPR & USCG Site: 2-364 Name: Bair Island

G.Ewing (OSPR) & M. Schommer (OSPR) Date: 04/10/2014



Imagery: NAIP 2010 (Summer) 4-Band

