

County: **Alameda**
 USGS Quad: **Oakland West**

Thomas Guide Location

Latitude N

Longitude W

3 7 50

122 29

NOAA Chart: **18649/18650 Entrance to SFBay**

Last Page Update : 7/1/2005

SITE DESCRIPTION:

The site is the embayment just north of the Oakland Bay Bridge toll plaza and includes the waters and marsh easterly from the radio towers (south) to the opposite breakwater tip (north) at Emeryville. This west facing bay transitions from open water to shallows and mudflats to a southerly and easterly pickleweed marsh perimeter. The northerly margin is rip-rapped. At the easterly tip of the lagoon a tidal channel drains from the adjacent urban area east of I-80 and at the southeast corner is another channel which drains from the vicinity of the Oakland Sanitary Treatment Plant.

SEASONAL and SPECIAL RESOURCE CONCERN

The marshes are an A priority year around. Site sensitivity is heightened during winter months when it is heavily used by migratory birds. Sensitive species occur here.

RESOURCES OF PRIMARY CONCERN

This habitat is ecologically rich and sensitive. An extensive pickleweed saltmarsh extends along the east and southern margin and is fronted with extensive mudflats; mudflats and open water are heavily used by ducks, shorebirds, and sea birds year around and particularly in the winter.

The marshes are habitat for endangered California clapper rail. The marsh and exposed mudflats are used heavily by shorebirds and wading birds. Waterfowl and seabirds use the area and large rafts of ducks congregate here in winter months.

The pickleweed marsh probably supports the endangered saltmarsh harvest mouse.

The rare plant, north coast bird's beak, has been identified from this site.

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
O	State Water Project Ops C	CA Dept. of Water Resources	(916) 574-2714
E	EBRPD Dispatch EBRP	East Bay Regional Park District	(510) 881-1833
E/T	Shoreline Park Supervisor	East Bay Regional Park District	(510) 544-3172

ADDITIONAL SITE SUMMARY COMMENTS:

2-495 -A Site Strategy - Emeryville Lagoon/Mudflats

County and Thomas Guide Location

Alameda

NOAA CHART

18649/18650 Entrance to SFBay

2-495 -A

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CONCERNS and ADVICE to RESPONDERS:

Last Page Update : 7/1/2005

The prime concern is to exclude oil from entering this bay and impacting birds and marshy margins. Cleanup of the marshy margins would be extremely difficult or not possible, and natural resource injuries would be very great. Responders should stay out of marshes and mudflats unless specifically directed though the IC/UC: activity should be confined to the mouth of the lagoon.

HAZARDS and RESTRICTIONS:

Very shallow water at the southern and eastern margins. Possible submerged obstructions inside the bay- mid to east end. Air traffic beware of radio towers.

SITE STRATEGIES

There is little current into this bay and that is mostly along the north edge. Extreme shallows on the south side can make booming to shore challenging, and may require wading to secure to shore. Inside the southern spit (radio towers) there are obstructions and extreme shallows which continue all around the south and east margins. Depths are not so limiting at the mouth and along north shore.

Strategy 2-495.1 Objective: Exclude/Deflect oil past the site and exclude it from entering lagoon by winds, waves and very light tidal current

Deploy a continuous line of harbor boom (3600' 9X9+ Hboom) across the bay from the radio towers north to the Emeryville riprap. A collection may be successful at the Emeryville shore about 200 ft inland from mouth. If oil collects in skimmable quantities (contact IC).

Strategy 2-495.2 Objective: Exclude/Deflect oil when there are aggressive waves.

Set cascading boom across the mouth according to the prevailing winds (diagram shows deployment for typical NW winds - adjust if other wind/wave conditions prevail). Deploy 4500' 9X9+ Hboom in 600-1200' lengths at an angle to the prevailing winds and waves. Divert oil to sandy beach west of radio towers on W to NW winds, or to Emeryville spit on S to SW winds, for shore recovery with shore-based skimmers. Link boom ends with sorbent to insure against oil eddying around boom. If oil is threatening to overwhelm the strategy, execute strategy .1 as a backup.

Strategy 2-495.3 Objective: Collection at shoreline favored by prevailing currents

Collection sites are available at either north shore (Emeryville) or south shore (radio towers). Best location on Emeryville shore is inside mouth about 80 yards. Best location near radio towers in on sand spit (this area may become mudflat at some low tides) and may require site modification. Small amount of light boom and sorbents will be necessary to construct skimming pocket. Shoreside skimming system (SSS) for collectable oil quantities, else use pompoms or other sorbents.

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	staff deploy	Staff tend
2-495.1	3600				7	7/22+/danforths + chain	3	2			Bboat: very shallow draft at south side	11	
2-495.2	4500			2000	28	28/22+/danforth + 15' chain	3	3	1 SSS		Bboat: 1 very shallow draft	15	
2-495.3	0	100	50 OS	200	0		0	0	1 SSS	0		2	

LOGISTICS

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

The site is the embayment just north of the Oakland Bay Bridge Toll plaza. The South side is accessible from the I-80 exist just before the toll plaza. Powell Street (exist from I-80 at Emeryville) borders the north margin. By boat, the nearest launch facility is at the Emeryville Marina at the end of Powell Street. The site is the embayment just north of the Oakland Bay Bridge toll plaza and includes the waters and marsh easterly from the radio towers (south) to the opposite breakwater tip (north) at Emeryville.

LAND ACCESS: All vehicles, all seasons on north and south access

WATER LOGISTICS: Very shallow on south half occasional obstruction thru out.

Limitations: depth, obstruction

Launching, Loading, Docking and Services Available: The nearest lunch, gas, moorage and service is located at the Emeryville marina on the north side of Emeryville spit.

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

Stage at Emeryville Marina. Good service availability and security capability. Boom could be deployed directly from land to water from this local. Emeryville PD and Fire are nearby. Berkeley Marina is 3 miles to the north and provides similar capabilities.

COMMUNICATIONS PROBLEMS: none known

ADDITIONAL OPERATIONAL COMMENTS:

