

2-225-A Site Summary - Redwood Creek/Big Lagoon/Muir Beach**2-225-A****County:** Marin**ACP Division/Segment:** MR - N - S006**NOAA Chart:** 18649 / 18680**Map Book:****Decimal Degrees:** 37.859505 -122.576218**Site Description:**

Site includes Muir Beach between cliffs north and south, Big Lagoon behind the beach berm and Redwood Creek up to the maximum extent of tidal influence. This site is within the Greater Farallones National Marine Sanctuary. Shoreline under jurisdiction Golden Gate National Recreation Area (National Park Service). Muir beach is a medium to coarse grained sand beach with a rocky boulder shore at the northern end. Big Lagoon, at the mouth of Redwood Creek, lies behind the beach and is open to the ocean winter through spring. The lagoon is long, narrow, shallow, and surrounded by salt-marsh vegetation. Redwood Creek is small and has riparian vegetation along its banks.

Resources at Risk:*ESI and Habitat:* 3A Fine- to medium-grained sand beaches

10A Salt - and brackish-water marshes

1A Exposed Rocky Shore

List of Resources at Risk:

	Resource Name	Status	Presence	Sensitivity
Amphibians	California red-legged frog	FT, SSC	Year-round	Nov-Apr
Birds	seabirds		Year-round	
Birds	peregrine falcon	FP, SP		Mar-May
Fish	coho salmon - south of Punta Gorda	FE, SE	Year-round	Nov-Apr
Fish	steelhead - Central/Northern California	FT	Year-round	Nov-Apr
Mammals	North American river otter	SSC	Year-round	
Reptiles	Western pond turtle	SSC	Year-round	May-Jul

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
O	/Agency Representative, 24-hr	California Coastal Commission	(415) 693-8375
O	/Dispatch, 24-hr	California State Parks	(916) 358-1300
O	/Emergency Service Coordinator	Marin County Office of Emergency Services	(415) 250-0267
O	/Dispatch, 24-hr	Marin County Sheriff's Department	(415) 479-2311
T	/Agency Representative	Golden Gate National Recreation Area	(415) 561-4731
T	/Agency Representative, 24-hr	Greater Farallones National Marine Sanctuary	(650) 678-4943
T	/Agency Representative, 24-hr	Greater Farallones National Marine Sanctuary	(650) 479-5311
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:

Oil from the T/V APEX HOUSTON spill in 1986 was carried into the lagoon.

Concerns and Advice to Responders:

The concerns are oil contamination and response activity impacts to wetlands, rare and endangered species, and other vulnerable plants and wildlife which are present throughout the year. The primary objective is to minimize the exposure of oil to plants. Another concern is the impacts resulting from response activities. Avoid trampling wetlands, sensitive plants and animals, and soft mudflats, causing penetration of oil into the sediments and further injury to the environment.

Hazard and Restrictions:

Large surf and swell possible.

Site Strategies:

Site Validation Level: II

Strategy: 2-225.1 Objective: Exclude oil by booming.

Strategy: Deploy sorbent and swamp boom across lagoon/creek to prevent movement of oil upstream. Place several layers 20 feet apart as necessary. Deploy by hand.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Swamp	6x6 inch		200	feet	
Boom	Sorbent			1000	feet	
Anchor	Danforth	22 lb		5		
Staff	Staff to Deploy			2		

Strategy: 2-225.2 Objective: Exclude oil by Sediment dam.

Strategy: Block off inlet with sediment dike (fine-grained sand) using a small bulldozer or front-end loader. The zone of high-tide overwash on the spit is approximately 300 feet long. This is the length of the dike required. If large surf conditions exist, construct a dike with a runnel (a shallow ditch behind the dike) to catch any overwash. This can only be done if sand is plentiful and beach is wide enough.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Heavy Equip	Backhoe			1		
Staff	Staff to Deploy			3		

Logistics:

Directions: From Sausalito, Hwy 101 take Hwy 1 (Shoreline Hwy) north, left on Pacific Way to Muir Beach Parking Lot.

Land Access: Large trucks okay to parking lot. No vehicle access to beach area. ATV accessible.

On-Water Limitations: Large surf common at this site. Nearest launch ramp in San Francisco Bay (Horseshoe Bay).

Facilities, Staging Areas, Command Posts, Available Equipment: Staging area and access at Muir Beach parking lot.

Communications Problems: Cell coverage varies on outer coast.

Additional Operational Comments: Developed March 1995, strategy has not been deployed or tested.

