

2-219-B Site Summary - Duxbury Reef**2-219-B****County:** Marin **ACP Division/Segment:** MR - L - S006**NOAA Chart:** 18649 / 18680**Map Book:** Marin County**Decimal Degrees:** 37.892052 -122.704635**Site Description:**

The site is located within Greater Farallones National Marine Sanctuary and partially within Point Reyes National Seashore. It is approx 12 nautical miles upcoast from the Golden Gate near the town of Bolinas. The reef is several hundred yards wide and nearly 3 miles long. Site is within the following State Marine Protected Area: Duxbury Reef State Marine Conservation Area. Site is associated with BLM Ca Coastal National Monument resources. This is the largest intertidal reef in California. It is a designated wildlife preserve. It consists of a large wave-cut mudstone rocky bench backed by coarse-grained beaches and eroding cliffs with extensive intertidal and tidepool areas.

Resources at Risk:*ESI and Habitat:* 1C Exposed rocky cliffs with boulder talus base

2A Exposed wave-cut platforms in bedrock, mud, or clay

5 Mixed sand and gravel beaches

List of Resources at Risk:

	Resource Name	Status	Presence	Sensitivity
Birds	shorebirds		Year-round	Mar-Jul
Birds	wading birds		Year-round	
Birds	raptors		Year-round	
Invertebrates	rocky intertidal invertebrates		Year-round	
Mammals	harbor seal	FP	Year-round	Mar-Jun

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	/Dispatch, 24-hr	Bolinas Fire Department	(415) 499-6717
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 Parks, Open Space District	(415) 479-2311
O	/Dispatch, 24-hr	Marin County Sheriff's Department	(415) 479-2311
T	/Natural Resources Specialist	BLM, CA Coastal National Monument	(831) 582-2200
T	/Agency Representative	California Department of Fish and Wildlife	(707) 445-5365
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
T	/Park Ranger, 24 hr	US National Park Service, Point Reyes	(415) 464-5175

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

Additional Site Summary Comments:

Commercial and recreational fishing occurs in the area.

Concerns and Advice to Responders:

Principal concerns are oil contamination and response activity impacts to seabirds, marine mammals, and other vulnerable intertidal plants and wildlife which are present throughout the year. The primary objective is to minimize exposure of oil to the natural resources present at the site. Other concerns are the impacts resulting from response activities. Avoid low flying aircraft/helicopters (<1000 ft) over the seabird colonies and marine mammal haulout areas. Avoid noisy boat traffic near the site.

Hazard and Restrictions:

Potentially heavy surf and large swells common at this site. Very wide, rocky reef. Steep, eroding cliffs.

Site Strategies:**Site Validation Level: 0**

Strategy: 2-219.1 Objective: Open water & on-water counter measures.

Strategy: This site is difficult to protect as is most of the outer coast. Mechanical shoreline protection techniques are not likely to be effective because of high wave energy and rocky conditions at this site.

- a) Recommended response strategy is on-water containment and recovery.
- b) Pursue feasibility of alternative response technologies (e.g. dispersants and in-situ burning) to reduce the volume of oil reaching the site.

Table of Response Resources

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Strategy: 2-219.2 Objective: Shoreline oil mitigation and cleanup: Prevent penetration of oil into gravel beaches resulting in long-term persistent oiling of the area.

Strategy: Place several thousand feet of sorbent booms (pom-poms or adsorbent booms) along upper beach to minimize oil penetrating into gravel beach.

Manual removal of oil would most likely be the recommended cleanup method due to the sensitivity of the reef organisms.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Oil Snare (pom-pom)			5000	feet	
Anchor	Danforth	30 lb		11		
Staff	Staff to Deploy			4		

Logistics:

Directions: Hwy 101 to Hwy1 to Bolinas Lagoon. At the top or head of the lagoon turn westward onto Olema-Bolinas Road. Turn right on Mesa Road. Several access point to the reef exist: 1) public access trails from Mesa Road at Palomarin; 2) through the Commonwealth Institute north of Bolinas; 3) at Agate Beach County Park. To get to Agate Beach: from Mesa Road turn left on Overlook Drive, turn right on Elm Road and proceed to the parking lot at the end of the road.

Land Access: Vehicular access to beach thru town of Bolinas. Contact NPS Personnel for access.

On-Water Limitations: Heavy surf and large swell common at this site. Nearest boat launch is from Seadrift Community or from San Francisco Bay.

Facilities, Staging Areas, Command Posts, Available Equipment: Staging access through Agate Beach County Park in Bolinas, the Commonwealth Institute on bluffs above the site, and on the Palomarin Beach access at the northwest end of beach.

Communications Problems: Cell reception varies on the outer coast.

Additional Operational Comments: Strategy developed March 1995, has not been deployed or tested.

