

1-310-A Site Summary - North Humboldt Bay**1-310-A****County:** Humboldt **ACP Division/Segment:** HM - G - S03 HM - G - S23**NOAA Chart:** 18622**Map Book:** CA Road Atlas**Decimal Degrees:** 40.80641 -124.18232**Site Description:**

The response site is in the Samoa Channel south of the Hwy 255 bridge between Redwood Dock and Indian Island. The western shoreline near Samoa and Redwood Marine Terminal is managed by the Humboldt Bay Harbor District and Indian Island by the Wiyot Tribe. The boom deployment is designed to prevent the spread of oil into the shallow waters of Arcata Bay north of Hwy 255 on the flood tide. Swift tidal currents in the bay can bring oil from the entrance of Humboldt Bay to the sensitive sites in North Bay in one or two tidal cycles. Extensive marsh complexes, wetlands, estuaries, bird habitats, aquaculture.

There are multiple subtidal aquaculture sites along the west side of the Samoa Channel and baywater intakes at Redwood Marine Terminal II and Red Tank Docks that supply upland aquaculture and other industrial users nearby. See the Humboldt Bay Shoreline Response Plan for additional information and site contact information for aquaculture.

This area on Humboldt Bay provides important habitat and is a high bird use area year-round. Waterfowl, shorebirds, gulls, pelicans, cormorants, wading birds, and raptors are all at least occasionally present, with seasonal variations in migratory species, but with high numbers present in the area on any average day. Raptors include bald eagle (SE), northern harrier, osprey and peregrine falcon. Brant (SSC) present Nov-Apr. Other waterfowl and waterbirds include common loon (SSC), redhead (SSC), herons and egrets, yellow rail (SSC). Harbor seals are the only marine mammals typically found at this site but there are river otters and California sea lions nearby in the bay. Anadromous salmonids include coho (FT, ST) and chinook (FT) salmon, steelhead (FT) and coastal cutthroat (SSC) trouts: spawning runs (08-06); juveniles/smolts (02-08). Green sturgeon (FT,SSC), groundfish (EFH), longfin smelt (ST), eulachon (FT) and Dungeness crab. Extensive eelgrass beds. Oyster aquaculture: North Humboldt Bay is home to large commercially successful oyster seed production and smaller grow out operation. Care should be taken to minimize impacts to these resources. Sensitive plants nearby include coastal marsh milk-vetch, dark-eyed gilia, Humboldt Bay owl's-clover, perennial goldfields, round-headed Chinese-houses (all CNPS 1B.2); western bumblebee.

Resources at Risk:*ESI and Habitat:* 9A Sheltered tidal flats

8B Sheltered solid man-made structures

10A Salt - and brackish-water marshes

List of Resources at Risk:

	Resource Name	Status	Presence	Sensitivity
Birds	marbled murrelet	FT, SE	Year-round	
Fish	green sturgeon - Southern	FT, SSC	Year-round	
Fish	longfin smelt	ST	Year-round	
Fish	tidewater goby	FE, SSC	Year-round	
Fish	Pacific lamprey	SSC	Year-round	
Fish	eulachon	FT	Year-round	
Fish	salmonids		Year-round	
Plants	Humboldt Bay owl's-clover	SSSP	Year-round	Apr-Aug

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
C	/	The Wiyot Tribe	(707) 733-5055
E	/	Humboldt County Sheriff	(707) 445-7251
O	/	Humboldt Bay Harbor District	(707) 443-0801
T	/	NOAA National Marine Fisheries Service-Arcata	(707) 822-7201
T	/	US Fish and Wildlife Service-Arcata Field Office	(707) 822-7201

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

Additional Site Summary Comments:

For further information about coastal access in this area, please refer to the California Coastal Commission's California Coastal Access Guide. For photos of the coastline in this area, please refer to the California Coastal Records Project (www.californiacoastline.org).

Cultural, Historical, and Archeological sites are known to exist in the area, however, the exact locations of these sites must be ascertained by contacting the Native American Heritage Commission at (916) 373-3710, the State Office of Historical Preservation (916) 445-7000, and/or the Northwest Information Center (707) 588-8455.

Concerns and Advice to Responders:

This strategy should be implemented ASAP; oil will rapidly move towards Arcata Bay on a flood tide from most points in Humboldt Bay north of the jetty. Oiling of north bay could be difficult to clean up and cause long term damage to important habitats. Avoid anchor impacts to eelgrass beds.

Hazard and Restrictions:

Submerged cables near the response site are noted on diagram. Access to this site is best on the water as the islands have restricted access and are off limits to response traffic. Most of the remaining shoreline consists of wide and often shallow mud flats that are soft, deep, and difficult to walk upon and unstable to work on. Swift currents in Samoa Channel will complicate conventional response. Boom with two tension cables is advised. Vessel traffic may complicate response. Redwood Dock is deteriorating and may pose safety hazards, minimize equipment and personnel on the dock.

Site Strategies:**Site Validation Level: III****Strategy: 1-310.1 Objective:** On water recovery

Strategy: Use self propelled skimmers to begin oil recovery within Samoa Channel and North Humboldt Bay.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
skimmer	SPS			1		
Staff				3		

Strategy: 1-310.2 Objective: Prevent oil from entering Arcata Bay

Strategy: Prevent oil from entering Arcata Bay. Direct oil with cascaded deflection boom towards Redwood Dock for collection in front of the dock with a swift water skimmer. Use 400ft sections of boom (or less) to from the center channel to deflect oil to a floating skimmer at the Redwood Dock. Use one 600ft length to create the collection pocket in front of the dock. Connect the skimmer to a vacuum truck on shore with approximately 500ft of hose for recovery. Create the collection pocket prior to the cascades so recovery is immediate. Consider additional 400ft cascades and implement 1-330.1 deflection if needed to improve recovery.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Swamp	2000 feet				<i>Strategy Updated:</i> 12/13/2019
Anchor	Danforth	22 lb		12		<i>Last Test:</i> 10/9/2019
boat	Boom Boat or Skiff			2		
skimmer	SPS			1		
Staff				8		
Vac truck				1		
Hose		500 feet				

Logistics:

Directions: Humboldt Bay is adjacent to Highway 101 near the cities of Arcata and Eureka. Highway 255 passes over it on the north end. The response area for this site include the Samoa Channel between the town of Samoa and Indian Island, south of the Highway 255 bridge.

Land Access: Accessible from Samoa at Redwood Marine Terminal. Do not access Indian Island without permission from Wiyot Tribe.

On-Water Limitations: The channels are deep, the shoreline is mudflats. There are numerous public boat ramps around the bay. The nearest launches are directly under the east end of the Highway 255 Bridge in Eureka or the City of Eureka's launch at the marina.

Facilities, Staging Areas, Command Posts, Available Equipment: Public docks and boat launching facilities are available around the bay and the OSROs have on the water response resources pre-staged in the area.

Communications Problems: none

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Additional Operational Comments: Bring a life vest and rain jacket, year round. Do not access Indian Island without permission or escort from Wiyot Tribe. A new collection strategy for 1-310.2 was successfully tested in October 2019 resulting in significant changes. A NOFI Current Buster was tested successfully nearby in 2019, consider deploying with 1-310.1 within Samoa Channel for improved recovery.

