

2-403-A Site Summary - Crissy Field Tidal Marsh**2-403-A****County:** San Francisco **ACP Division/Segment:** SF - H - S010**NOAA Chart:** Entrance to San Francisco Bay 18649 **Map Book:** AAA - San Franc **Decimal Degrees:** 37.805507 -122.454274**Site Description:**

Crissy Field Tidal Marsh is a restored wetland at the east end of Crissy Field and includes a tidal channel which opens to San Francisco Bay at the east end of the salt-marsh. This wetland lies within Golden Gate National Recreational Area (GGNRA), under jurisdiction of US National Park Service (NPS). It was constructed and opened to tidal exchange in 1999. It is being revegetated with native species. It is an uncommon habitat for waterbirds and shorebirds in an urban habitat, thus, has great value as a resting/foraging area. The tidal inlet has silted in remarkably and has not yet scoured a low flow channel. There is a large community focus and investment in this salt-marsh habitat restoration area.

Resources at Risk:

ESI and Habitat: 3A Fine- to medium-grained sand beaches
 10A Salt - and brackish-water marshes
 8B Sheltered solid man-made structures

List of Resources at Risk:

	Resource Name	Status	Presence	Sensitivity
Birds	California black rail	FP, ST	Year-round	Mar - Jul
Birds	Western snowy plover	FT, SSC	Year-round	Mar - Sep
Fish	longfin smelt	ST	Year-round	Nov - May
Plants	Pt. Reyes bird's-beak	SSSP	Year-round	Jul - Oct
Plants	California seablite	FE, SSSP	Year-round	Jul - Oct
Plants	San Francisco lessingia	FE, SE	Year-round	Jul - Nov
Plants	congested-headed hayfield tarplant	SSSP	Year-round	Apr - Nov
Plants	San Francisco Bay spineflower	SSSP	Year-round	Apr - 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
E	/Duty Officer (24hr)	San Francisco Dept. of Emergency Management	(415) 260-2591
O	/Dispatch, 24-hr	The Marine Mammal Center	(415) 289-7350
T	/Agency Representative	US National Park Service, Golden Gate	(415) 561-4731
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:

Concerns and Advice to Responders:

The concern is to keep oil from entering the marsh by excluding it at the tidal entry channel. Avoid disturbing wildlife and tracking oil around the site. This is a high visibility site with a lot of public awareness. Golden Gate National Recreational Area to advise of response activities 415-561-4620 (park police dispatch).

Hazard and Restrictions:

Be aware of swift currents directly offshore tidal channel mouth.

Site Strategies:**Site Validation Level: V**

Strategy: 2-403.1 Objective: Primary: Exclude oil from entering the mouth

Strategy: Exclude oil from entering the mouth of the tidal channel using a shallow lopsided chevron boom deployment. Anchor boom to shore west of the tidal mouth and angle out at about 45 degrees with 100 ft boom and then angle back to shore east of mouth using 200 ft of boom. Be sure to provide for a boom seal which will keep oil from getting around the shore boom ends at low tides.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	6x6 inch		300	feet	
Anchor	Danforth	22 lb		3		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			2		

Strategy: 2-403.2 Objective: Back-up: exclude / collect: capture of oil which escapes past primary protection

Strategy: Deploy deflection to shoreside collection in the tidal channel. Currents in the tidal channel are swift (can exceed 2 knots). Deploy swamp boom (300') at a very slight angle to collect oil on the east bank of the channel. Use mid boom anchor(s) and lines to keep boom from forming catenary curves (and promoting entrainment of oil). Establish a skimming pocket and backup collection boom (100' swampboom) to confine accumulating oil and allow collection. Back with sorbent. This deployment should be done from land: with the permission of NPS Personnel, you may drive right to the location. There is a foot bridge across the channel, and the channel is very shallow or empty at some tides.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Swamp Boom	6x6 inch		400	feet	
Boom	Sorbent			300	feet	
Anchor	Danforth	22 lb		3		
Vac truck				1		
Staff	Staff to Deploy			2		

Strategy: 2-403.3 Objective: Exclude by berming with onsite substrate

Strategy: Using sand at the mouth of the channel and seaward of rip-rap, construct a berm with a culvert to permit tidal exchange. Make provision to block-off culvert if oil threatens. Contact NPS Personnel about front-end loader and culvert which may be available in the park.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Skiploader				1		
culvert				1		
Staff	Staff to Deploy			3		

Logistics:

Directions: By land, Crissy Field is just east of the Golden Gate Bridge and is just north of Hwy 101. The wetland is at the east end of Crissy Field. By boat, the opening to the wetland is about a half mile west of Marina Park.

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Land Access: All equipment types should coordinate with Park Service (NPS) authorization.

On-Water Limitations: Nearest marina is Gas House Cove a mile to the east.

Facilities, Staging Areas, Command Posts, Available Equipment: Crissy Field is a possible staging area for local activities - contact National Park Service (NPS).

Communications Problems: Good cell reception.

