

County: **Sacramento**
USGS Quad: **Antioch North**

Thomas Guide Location

Latitude N Longitude W
3 8 02 121 46.5

NOAA Chart: **18661 Sacramento & San Joaquin River**

Last Page Update : 7/1/2005

SITE DESCRIPTION:

This site is located a mile west of the Antioch Bridge and includes Donlon Island, Mayberry Slough and Mayberry Cut. This 400 acre submerged Island is part of DFW Lower Sherman Wildlife Area. Donlon Island is a flooded island which has emergent marshes mingled with many meandering channels. It has three major openings to the main channel which it borders on the south side. Mayberry Slough separates this island from Sherman Island to the north and Mayberry Cut is a parallel channel which separates Donlon Island from Lower Sherman Island (Sherman Lake). Both channels are fringed with emergent marsh and have channel islands. The margin on the San Joaquin is very porous. Currents here tend to be from the San Joaquin into these waterbodies on the ebb only.

SEASONAL and SPECIAL RESOURCE CONCERN

Marshes are "A" priority at all times.

RESOURCES OF PRIMARY CONCERN

Extensive wetlands and channels communicate with external channels.

This is a waterfowl rearing area.

Many semi-aquatic species of mammals thrive here.

Mason's Liliopsis occurs here.

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
	John Henderson F/W Biologist	US Fish & Wildlife Service, Environmental Contam	(916) 414-6595
	Eric Larson	CA Dept. of Fish & Wildlife, Bay/Delta	(707) 944-5528

ADDITIONAL SITE SUMMARY COMMENTS:

2-786 -A Site Strategy - Mayberry Slough - Donlon Island

County and Thomas Guide Location

Sacramento

NOAA CHART

18661 Sacramento & San Joaquin River

2-786 -A

Latitude N

Longitude W

3 8 02

121 46.5

CONCERNS and ADVICE to RESPONDERS:

Last Page Update : 7/1/2005

The major concern is spreading of oil from the San Joaquin to interior marshes of Donlon Island and Lower Sherman Island (Sherman Lake). This is of great concern on the ebb tide when strong currents are induced into Donlon's Mayberry.

HAZARDS and RESTRICTIONS:

Shallows and obstructions at the margins and interior of the island.

SITE STRATEGIES

On ebb, tide water flows through this site toward the Sacramento River and out from it on flood tide. Strong currents result in Mayberry Slough. San Joaquin River side levee is very eroded and porous having little ability to stop oil entry. Boom can be delivered to Mayberry Slough on Sherman Island levee road.

Strategy 2-786.1 Objective: On the EBB: Exclude / deflect oil at Mayberry Slough and Mayberry Cut mouths and at three large openings into Donlon Isl.

a) at Mayberry Slough deploy 1200 ft. of deflection boom outside mouth from east side of mouth.

B) at Mayberry Cut deploy 2 300 ft. 9x9+ deflection booms in series to the east of Mayberry Cut. Run a 200 ft. exclusion boom from the west side of Mayberry Cut (just west of levee break) to connect with the nearest deflection boom to form a chevron exclusion.

c) There are three major openings into Donlon Isl. Each should be protected by exclusion-deflection shallow chevron "V" boom configurations. Openings will require about 550, 100 and 350 ft; each configuration will require a secure anchor at apex to form the chevron. Each must have a backup of sorbent.

Strategy 2-786.2 Objective: Exclude oil entry to interior of Donlon Island through porous southern levee

deploy 4x4+ boom along San Joaquin River margin of Island to stop oil from moving into island with ebb flow. Use stakes and anchors to position boom.

Strategy 2-786.3 Objective: On the EBB at Mayberry Slough mouth : Backup deflection/exclude to shoreline collection/confinement by deflection on outside and exclusion collection inside.

Inside mouth, divert to containment/collection at the Sherman Island shore. Use 50ft of Oil Snare (OS), 100 ft of sorbent boom to collect any oil that may accumulate. Contact IC if oil accumulates in skimmable quantities.

a) inside mouth where channel turns to northwest, 400 ft diagonal 4x4 collection exclusion boom and line shoreline collection area.

b) to the west of this catchment deploy a second 400 ft diagonal 4x4 collection exclusion boom. Back with sorbent.

Strategy 2-786.4 Objective: Oil recovery with shoreline skimming when heavy oil or other skimmable quantities of oil occur

Set up a land-based skimmer on the Sherman Island levee at collections points resulting from strategy 786.3.

Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no	Boat type and gear	Boom boat	Skiffs punts	Skimmers No	Type	Special Equipment or comment No and kinds	staff deploy	Staff tend
2-786.1	3000			1000	21	13/22+ & 8/12+lb/danforths	3	1				11	
2-786.2		4500		1000	30	5 small anchors 25 stakes	2	1				8	
2-786.3		1000	50 OS	100	13	5/22+ & 8/12lb/danforths		1			Bboats: shallow water	2	
2-786.4	0	0	0	0	0		0	0	2 SSS	0			

LOGISTICS

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

There is land access to the northerly margin of this site on the adjacent levee of Sherman Island. By water, the site is northeast of Antioch about a mile from the public launch ramp. This site is located a mile west of the Antioch Bridge and includes Donlon Island, Mayberry Slough and Mayberry Cut. This 400 acre submerged Island is part of DFW Lower Sherman Wildlife Area.

LAND ACCESS: DRY LEVEE ROAD NORTH

WATER LOGISTICS: MARGINS OBSTRUCTIONS & SHALLOWS, DEEP CH

Limitations: depth, obstruction

Launching, Loading, Docking and Services Available: Boat launch and marine facilities are readily available at Antioch Marinas. There is also the public ramp at Lower Sherman Island Wildlife Area.

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

There are limited facilities and camping at Lower Sherman Wildlife Area. All manner of services are available at Antioch. Good deployment sites include Sherman Island Levee, Antioch Marina, Antioch Public Ramp, and PG&E Park.

COMMUNICATIONS PROBLEMS: none known

ADDITIONAL OPERATIONAL COMMENTS:

2-786 -A Strategy Diagram- Mayberry Slough - Donlon Island

2-786 -A

