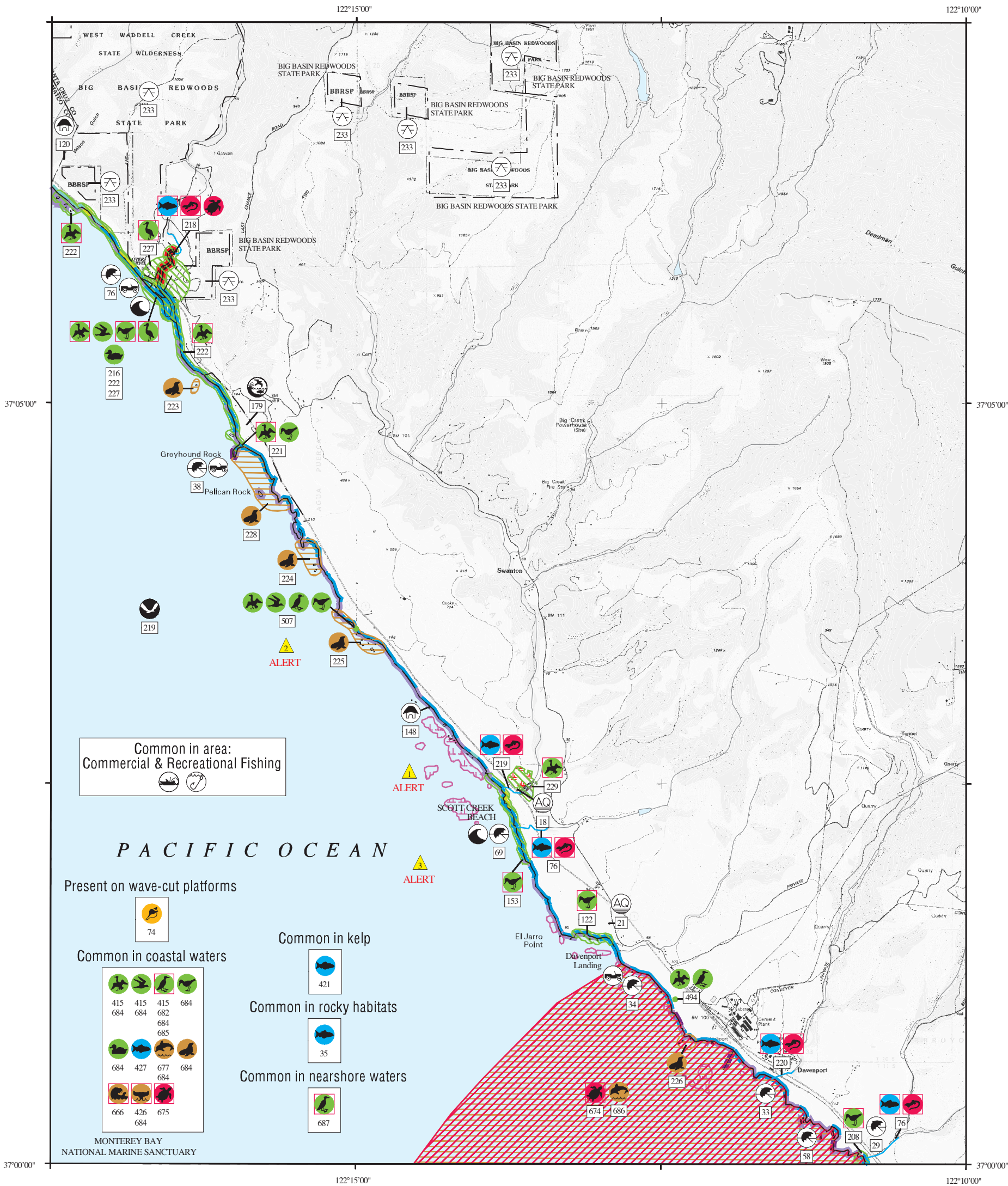


ENVIRONMENTAL SENSITIVITY INDEX MAP



SHORELINE HABITATS (ESI)

1A EXPOSED ROCKY SHORES	10A SALT- AND BRACKISH-WATER MARSHES
1B EXPOSED, SOLID, MAN-MADE STRUCTURES	10B FRESHWATER MARSHES
2A EXPOSED WAVE-CUT PLATFORMS IN BEDROCK	10C SWAMPS
3A FINE- TO MEDIUM-GRAINED SAND BEACHES	10D SCRUB-SHRUB WETLANDS
4 COARSE-GRAINED SAND BEACHES	
5 MIXED SAND AND GRAVEL BEACHES	
6A GRAVEL BEACHES	
6D BOULDER RUBBLE	
6B RIPRAP	
7 EXPOSED TIDAL FLATS	
8A SHELTERED ROCKY SHORES	
8B SHELTERED, SOLID, MAN-MADE STRUCTURES	
8C SHELTERED RIPRAP	
9A SHELTERED TIDAL FLATS	

Prepared by: Research Planning, Inc.
Columbia, South Carolina

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California Department of Fish and Game

Central California **ESI-30**

Central California: ESIMAP 30

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
122	Western snowy plover	T	X	X	X	X		X	X	X	X	X	X		-	-	-
153	Shorebirds		X	X	X	X	X	X	X	X	X	X	X		-	-	-
	Western snowy plover	T HIGH	X	X	X	X	X	X	X	X	X	X	X		MAR-SEP	-	-
208	Western snowy plover	T	X	X	X	X		X	X	X	X	X	X		-	-	-
216	Gulls		X	X	X	X	X	X	X	X	X	X	X		-	-	-
	Shorebirds		X	X	X	X		X	X	X	X	X	X		-	-	-
	Waterfowl		X	X	X	X	X		X	X	X	X			-	-	-
	Western snowy plover	T MEDIUM	X	X	X	X	X	X	X	X	X	X	X		MAR-SEP	-	-
221	Black oystercatcher		X	X	X				X	X	X	X			-	-	-
	Brown pelican	E E 0-233 INDIV.	X	X	X	X	X	X	X	X	X	X	X		-	JUL-NOV	-
222	Brown pelican	E E 0-215 INDIV.	X	X	X	X	X	X	X	X	X	X	X		-	JUL-NOV	-
227	California black rail	T	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN	-	-
229	Brown pelican	E E	X	X	X	X	X	X	X	X	X	X	X		-	JUL-NOV	-
415	Diving birds	8000 INDIV.	X	X	X	X	X	X							FEB-AUG	-	-
	Gulls	1400 INDIV.	X	X	X	X	X	X							FEB-AUG	-	-
	Seabirds	1300 INDIV.	X	X	X	X	X	X							FEB-AUG	-	-
494	Brandt's cormorant	308 INDIV.	X	X	X	X	X	X	X	X	X	X	X		FEB-AUG	-	-
	Pelagic cormorant	22 INDIV.	X	X	X	X	X	X	X	X	X	X	X		MAR-SEP	-	-
	Pigeon guillemot	313 INDIV.	X	X	X	X	X	X	X	X	X	X	X		FEB-AUG	-	-
	Rhinoceros auklet	1 INDIV.	X	X	X	X	X	X	X	X	X	X	X		APR-SEP	-	-
507	Black oystercatcher	9 INDIV.	X	X	X	X	X	X	X	X	X	X	X		MAR-SEP	-	-
	Pelagic cormorant	66 INDIV.	X	X	X	X	X	X	X	X	X	X	X		MAR-SEP	-	-
	Pigeon guillemot	321 INDIV.	X	X	X	X	X	X	X	X	X	X	X		FEB-AUG	-	-
	Western gull	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X		MAR-AUG	-	-
682	Sooty shearwater	MODERATE		X	X	X	X	X	X	X	X	X		-	-	APR-OCT	
684	Cassin's auklet	MODERATE	X	X	X	X	X	X	X	X	X	X	X		-	-	-
	Clark's grebe	MODERATE	X	X	X	X			X	X	X	X		-	MAR-APR SEP-NOV	-	-
	Common murre	HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	JUL-SEP
	Cormorants	MODERATE	X	X	X	X	X	X	X	X	X	X	X		-	-	-
	Eared grebe	LOW	X	X	X	X			X	X	X	X		-	MAR-APR SEP-OCT	-	-
	Gulls	MODERATE	X	X	X	X	X	X	X	X	X	X	X		-	-	-
	Horned grebe	LOW	X	X	X	X			X	X	X	X		-	OCT-APR	-	-
	Loons	MODERATE	X	X	X	X			X	X	X			-	OCT-MAY	-	-
	Pacific loon	MODERATE	X	X	X	X			X	X	X			-	OCT-MAY	-	-
	Pelicans	MODERATE		X	X	X	X	X	X	X	X	X	X		-	JUL-NOV	-
	Phalaropes	LOW	X	X	X	X	X	X	X	X	X	X	X		-	-	-
	Pigeon guillemot	MODERATE		X	X	X	X	X	X	X				-	-	-	-
	Rhinoceros auklet	MODERATE	X	X	X	X	X	X	X	X	X	X	X		-	-	-
	Shearwaters	LOW-MODERATE	X	X	X	X	X	X	X	X	X	X	X		-	-	-
	Surf scoter	MODERATE	X	X	X	X			X	X	X	X		-	MAR-APR SEP-DEC	-	-
	Western grebe	MODERATE	X	X	X	X			X	X	X	X		-	MAR-APR SEP-NOV	-	-
	White-winged scoter	LOW	X	X	X	X			X	X	X			-	MAR-APR OCT-NOV	-	-
685	Marbled murrelet	E T MODERATE	X	X	X	X	X	X	X	X	X	X	X		APR-JUL	AUG-MAR	-
687	Marbled murrelet	E T HIGH	X	X	X	X	X	X	X	X	X	X	X		APR-JUL	AUG-MAR	-

FISH:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
35	Black-and-yellow rockfish		X	X	X	X	X	X	X	X	X	X	X		MAR-JUN	-	-	MAY-JUL	JAN-DEC
	Cabezon		X	X	X	X	X	X	X	X	X	X	X		OCT-APR	-	-	JAN-DEC	JAN-DEC
	Calico surfperch		X	X	X	X	X	X	X	X	X	X	X		APR-AUG	-	-	JAN-DEC	MAR-NOV
	Gopher rockfish		X	X	X	X	X	X	X	X	X	X	X		MAR-JUN	-	-	MAY-JUL	JAN-DEC
	Grass rockfish		X	X	X	X	X	X	X	X	X	X	X		JAN-MAR	-	-	MAY-JUL	JAN-DEC
	Lingcod		X	X	X	X	X	X	X	X	X	X	X		NOV-APR	DEC-APR	-	JAN-DEC	JAN-DEC
	Monkeyface prickleback		X	X	X	X	X	X	X	X	X	X	X		JAN-APR	-	-	JAN-DEC	JAN-DEC
	Rubberlip seaperch		X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC
	Striped seaperch		X	X	X	X	X	X	X	X	X	X	X		MAY-JUN	-	-	JAN-DEC	JAN-DEC
	Walleye surfperch		X	X	X	X	X	X	X	X	X	X	X		APR-AUG	-	-	JAN-DEC	JAN-DEC
76	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JUN-OCT	OCT-JUN
218	Coho salmon	E E	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JUN-OCT	OCT-JUN
	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JUN-OCT	OCT-JUN
	Tidewater goby	E	X	X	X	X	X	X	X	X	X	X	X		JAN-DEC	-	-	-	JAN-DEC
219	Coho salmon	E E	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JUN-OCT	OCT-JUN
	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JUN-OCT	OCT-JUN
	Tidewater goby	E	X	X	X	X	X	X	X	X	X	X	X		JAN-DEC	-	-	-	JAN-DEC
220	Coho salmon	E E	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JUN-OCT	OCT-JUN
	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JUN-OCT	OCT-JUN
421	Black rockfish		X	X	X	X	X	X	X	X	X	X	X		JAN-MAY	-	-	APR-JUL	JAN-DEC
	Black-and-yellow rockfish		X	X	X	X	X	X	X	X	X	X	X		MAR-JUN	-	-	MAY-JUL	JAN-DEC
	Blue rockfish		X	X	X	X	X	X	X	X	X	X	X		NOV-MAR	-	-	APR-JUL	JAN-DEC
	Bocaccio		X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	-
	Canary rockfish (orange)		X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	-
	China rockfish		X	X	X	X	X	X	X	X	X	X	X		JAN-JUL	-	-	MAY-JUL	JAN-DEC
	Copper rockfish		X	X	X	X	X	X	X	X	X	X	X		FEB-APR	-	-	APR-JUL	JAN-DEC
	Gopher rockfish		X	X	X	X	X	X	X	X	X	X	X		MAR-JUN	-	-	MAY-JUL	JAN-DEC
	Grass rockfish		X	X	X	X	X	X	X	X	X	X	X		JAN-MAR	-	-	MAY-JUL	JAN-DEC
	Kelp rockfish		X	X	X	X	X	X	X	X	X	X	X		FEB-APR	-	-	APR-AUG	JAN-DEC
	Olive rockfish		X	X	X	X	X	X	X	X	X	X	X		JAN-MAR	-	-	APR-JUL	JAN-DEC
	Vermilion rockfish		X	X	X	X	X	X	X	X	X	X	X		SEP-NOV	-	-	FEB-JUL	JAN-DEC
	Widow rockfish		X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	-
	Yellowtail rockfish		X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	-
427	California halibut		X	X	X	X	X	X	X	X	X	X	X		FEB-JUN	-	FEB-SEP	JAN-DEC	FEB-NOV
	Salmon			X	X	X	X	X	X						-	-	-	-	APR-SEP

INVERTEBRATE:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
74	Black abalone		X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC

MARINE MAMMAL:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
223	Harbor seal	4-8 INDIV.	X	X	X	X	X	X	X	X	X	X	X		-	-	MAR-MAY	-
224	Harbor seal	62-92 INDIV.	X	X	X	X	X	X	X	X	X	X	X		-	-	MAR-MAY	-
225	Harbor seal	200-261 INDIV.	X	X	X	X	X	X	X	X	X	X	X		-	-	MAR-MAY	-
226	Harbor seal	6-22 INDIV.	X	X	X	X	X	X	X	X	X	X	X		-	-	MAR-MAY	-
228	Northern elephant seal		X	X	X	X	X	X	X	X	X	X	X		-	-	-	-
426	Gray whale		X	X	X	X			X	X					-	DEC-FEB	-	-
666	Sea otter	T 50 INDEP / 7 PUPS	X	X	X	X	X	X	X	X	X	X	X		-	-	JAN-MAR SEP-NOV	-
677	Harbor porpoise	MODERATE	X	X	X	X	X	X	X	X	X	X	X		JUL-SEP	JUN-AUG	-	-
684	Blue whale	E LOW						X	X	X	X	X	X		-	-	-	-
	Bottlenose dolphin	MODERATE	X	X	X	X	X	X	X	X	X	X	X		-	-	-	-
	Dall's porpoise	MODERATE	X	X	X	X	X	X	X	X	X	X	X		-	-	-	-
	Fin whale	E LOW	X	X	X	X	X	X	X	X	X	X	X		-	-	-	-

Biological information shown on the maps represents known concentration areas or occurrences, but does not necessarily represent the full distribution or range of each species. This is particularly important to recognize when considering potential impacts to protected species.

Central California: ESIMAP 30 (cont.)

BIOLOGICAL RESOURCES: (cont.)

MARINE MAMMAL: (cont.)

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Mating	Calving	Pupping	Molting
684	Humpback whale	E MODERATE	- X X X X X X X X X	-	-	-	-
	Killer whale	LOW	X X X X X X X X X X X	-	-	-	-
	Long-beaked common dolphin	LOW	X X X X X X X X X X X	-	-	-	-
	Minke whale	LOW	X X X X X X X X X X X	-	MAR-MAY	-	-
	Northern right whale	E LOW	- X X X	-	-	-	-
	Pacific white-sided dolphin	LOW	X X X X X X X X X X X	-	-	-	-
	Risso's dolphin	LOW	X X X X X X X X X X X	-	-	-	-
	Sea lions	MODERATE	X X X X X X X X X X X	-	-	-	-
	Seals	LOW-MODERATE	X X X X X X X X X X X	-	-	-	-
	Short-beaked common dolphin	LOW	X X X X X X X X X X X	-	-	-	-
	Short-finned pilot whale	LOW	X X X X X X X X X X X	-	-	-	-
686	Harbor porpoise	1600 INDIV.	X X X X X X X X X X X	JUL-SEP	JUN-AUG	-	-

REPTILE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Internesting	Juveniles	Adults
76	California red-legged frog	T	- X X X X X	-	-	-	JUN-OCT	-
218	California red-legged frog	T	- X X X X X	-	-	-	JUN-OCT	-
	San Francisco garter snake	E E	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Western pond turtle		- X X X X X	-	-	-	JUN-OCT	-
219	California red-legged frog	T	- X X X X X	-	-	-	JUN-OCT	-
	San Francisco garter snake	E E	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
220	California red-legged frog	T	- X X X X X	-	-	-	JUN-OCT	-
674	Leatherback sea turtle	E HIGH	- X X X X X X X	-	-	-	-	MAY-NOV
675	Leatherback sea turtle	E MODERATE	- X X X X X X X	-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Keep out of kelp when transiting. Note potential presence of sea otters if operating outboard motor.
2	Harbor seal breeding area, March-July.
3	Snowy plovers, March-July, no vehicles without escort.

AQUACULTURE:

HUN#	Name	Contact	Phone
18	MONTEREY BAY SALMON AND TROUT PROJECT		
21	SILVERKING OCEANIC FARMS		

BEACH:

HUN#	Name	Contact	Phone
29	BONNY DOON BEACH		
33	DAVENPORT BEACH		
34	DAVENPORT LANDING BEACH		
38	GREYHOUND ROCK BEACH		
58	PANTHER BEACH		
69	SCOTT CREEK BEACH		
76	WADDELL CREEK STATE BEACH		

SAMPLING SITE:

HUN#	Name	Contact	Phone
120	PISCO:ANO NUEVO	PETE RAIMONDI	831/459-5674
148	PISCO:SCOTT CREEK	PETE RAIMONDI	831/459-5674

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
179	GREYHOUND ROCK FA	CA DEPT OF FISH AND GAME	

MARINE SANCTUARY:

HUN#	Name	Contact	Phone
219	MONTEREY BAY NATIONAL MARINE SANCTUARY	SUPERINTENDENT	831/647-4201

PARK:

HUN#	Name	Contact	Phone
233	BIG BASIN REDWOODS SP	CA DEPT OF PARKS AND RECREATION	