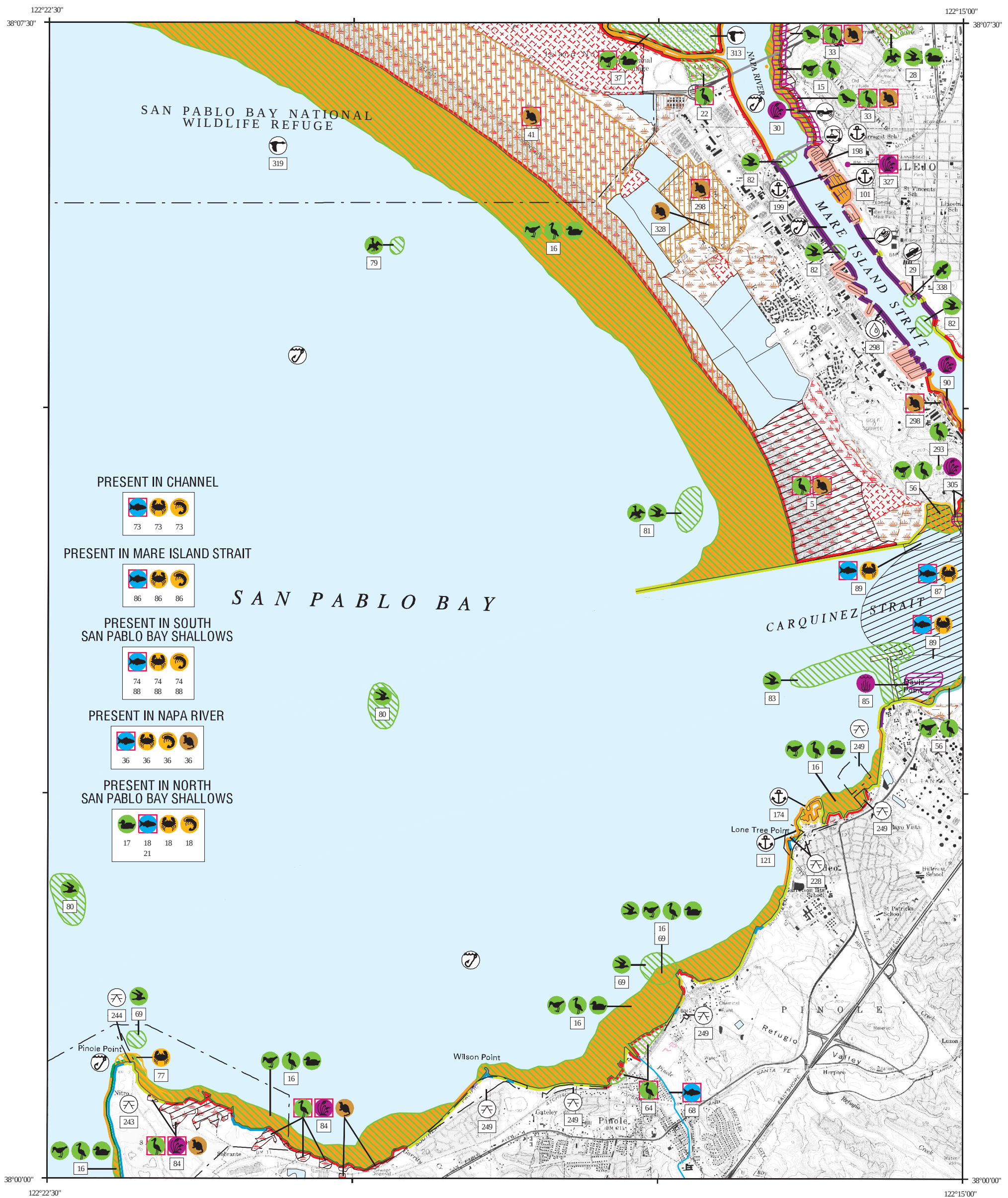
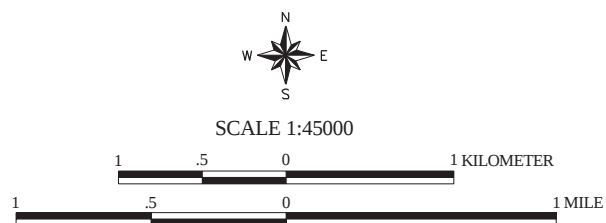


ENVIRONMENTAL SENSITIVITY INDEX MAP

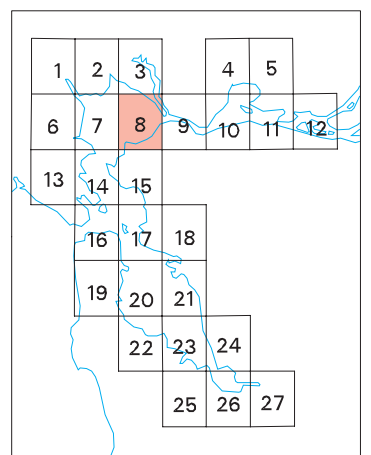


SHORELINE HABITATS

	1A EXPOSED ROCKY SHORES
	1B EXPOSED, SOLID MAN - MADE STRUCTURES
	2A EXPOSED WAVE - CUT PLATFORMS IN BEDROCK
	3A FINE - TO MEDIUM - GRAINED SAND BEACHES
	3B SCARPS AND STEEP SLOPES IN SAND
	4 COARSE - GRAINED SAND BEACHES
	5 MIXED SAND AND GRAVEL BEACHES
	6A GRAVEL BEACHES
	6B RIPRAP
	7 EXPOSED TIDAL FLATS
	8A SHELTERED ROCKY SHORES
	8B SHELTERED, SOLID MAN - MADE STRUCTURES
	8C SHELTERED RIPRAP
	9A SHELTERED TIDAL FLATS
	9B VEGETATED LOW RIVERINE BANKS
	10A SALT - AND BRACKISH - WATER MARSHES
	TIDAL MARSHES
	MUTED TIDAL MARSHES
	MANAGED MARSHES
	DIKED MARSHES
	SALT PONDS



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BIOLOGICAL RESOURCES:

AR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
5	California black rail	S	T	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	-	-	-
	California clapper rail	S/F	E/E	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-	-
15	Shorebirds			HIGH	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Wading birds			HIGH	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
16	Dabbling ducks			HIGH	X	X	X	X					X	X	X	X	-	-	-	-
	Shorebirds			HIGH	X	X	X	X			X	X	X	X	X	X	-	-	-	-
	Wading birds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
17	Canvasback			MEDIUM	X	X	X	X						X	X	X	-	-	-	-
	Diving ducks			HIGH	X	X	X	X						X	X	X	-	-	-	-
	Ruddy duck			MEDIUM	X	X	X	X					X	X	X	X	-	-	-	-
22	California clapper rail	S/F	E/E	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-	-
28	American coot			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	American white pelican			HIGH				X	X	X	X	X	X				-	-	-	-
	Canvasback			HIGH	X	X	X	X						X	X	X	-	-	-	-
	Diving ducks			HIGH	X	X	X	X						X	X	X	-	-	-	-
	Forster's tern			20			X	X	X	X	X	X					APR-AUG	APR-JUN	MAY-JUL	JUL-AUG
	Gulls			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Terns			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Western grebe			HIGH	X	X	X	X	X					X	X	X	-	-	-	-
33	California black rail	S	T	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	-	-	-
	California clapper rail	S/F	E/E	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-	-
	Saltmarsh common yellowthroat			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	-	-	-
37	American avocet			MEDIUM	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-JUN	MAY-JUL	JUL-SEP
	American coot			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Black-necked stilt			MEDIUM	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-JUN	MAY-JUL	JUL-SEP
	Canvasback			HIGH	X	X	X	X						X	X	X	-	-	-	-
	Dabbling ducks			HIGH	X	X	X	X					X	X	X	X	-	-	-	-
	Diving ducks			HIGH	X	X	X	X						X	X	X	-	-	-	-
	Northern pintail			HIGH	X	X	X					X	X	X	X	X	-	-	-	-
	Red-necked (Northern) phalarope			LOW						X	X	X					-	-	-	-
	Ruddy duck			HIGH	X	X	X	X					X	X	X	X	-	-	-	-
	Shorebirds			HIGH	X	X	X	X	X		X	X	X	X	X	X	-	-	-	-
	Western snowy plover	F	T	LOW		X	X	X	X	X	X	X	X				-	-	-	-
56	Shorebirds			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Wading birds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
64	California black rail	S</																		

AR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
18	American shad			HIGH						X	X	X	X	X	X	X	-	-	-	AUG-DEC	MAY-JUL
	Chinook salmon (fall)			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	Chinook salmon (late fall)			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	Chinook salmon (spring)			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	Chinook salmon (winter)			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	Green sturgeon	S/F	E/E	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	Striped bass			MEDIUM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
21	White sturgeon			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	SEP-NOV
	English sole			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Starry flounder			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
36	American shad			HIGH						X	X	X	X	X	X	X	-	-	-	AUG-DEC	JAN-DEC
	Chinook salmon			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Delta smelt	S/F	T/T	RARE	X	X	X	X	X	X				X	X	X	JAN-MAY	JAN-MAY	JAN-JUL	MAR-JUL	OCT-JUN
	Rainbow trout (steelhead)	F	T	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	FEB-JUN	JUL-FEB
	Striped bass			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	White sturgeon			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Rainbow trout (steelhead)	F	T	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	FEB-JUN	JUL-FEB
73	American shad			HIGH						X	X	X	X	X	X	X	-	-	-	AUG-DEC	MAY-JUL
	Chinook salmon (fall)			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JUL-NOV
	Chinook salmon (late fall)			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	OCT-MAR
	Chinook salmon (spring)			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	FEB-AUG
	Chinook salmon (winter)			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	NOV-MAY
	Green sturgeon	S/F	E/E	MEDIUM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Striped bass			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	SEP-NOV
	White croaker			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	SEP-NOV
	White sturgeon			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	American shad			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	California halibut			HIGH						X	X	X	X	X	X	X	-	-	-	AUG-DEC	MAY-JUL
	Chinook salmon (fall)			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Chinook salmon (late fall)			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
86	Chinook salmon (spring)			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	Chinook salmon (winter)			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	Green sturgeon	S/F	E/E	MEDIUM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	Striped bass			HIGH	X</																

SAN FRANCISCO BAY – ESIMAP 8 (continued)

BIOLOGICAL RESOURCES (continued):

HABITAT/PLANT:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
30	Mason's lilaeopsis			POTENTIAL	X	X	X	X	X	X	X	X	X	X	X	X
84	Ambiguous indian paintbrush			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X
	Soft bird's-beak	F	E	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X
	Yellowray goldfields			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X
85	Eelgrass				X	X	X	X	X	X	X	X	X	X	X	X
90	Mason's lilaeopsis			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X
305	Mason's lilaeopsis			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X
327	Soft bird's-beak	F	E	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X

INVERTEBRATE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
18	Blacktail bay shrimp			MEDIUM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-SEP	MAR-OCT	JAN-NOV
	California bay shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-SEP	MAR-OCT	JAN-NOV
	Dungeness crab			HIGH				X	X	X	X	X	X	X	X	X	-	-	-	APR-DEC	-
36	California bay shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-SEP	MAR-OCT	JAN-NOV
	Dungeness crab			HIGH				X	X	X	X	X	X	X	X	X	-	-	-	APR-DEC	-
73	California bay shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-MAR	JAN-SEP	MAR-SEP	-	JAN-NOV
	Dungeness crab			HIGH	X	X		X	X	X					X	X	-	-	-	APR- JUN NOV- FEB	-
74	Blacktail bay shrimp			MEDIUM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-SEP	MAR-OCT	JAN-NOV
	California bay shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-SEP	MAR-OCT	JAN-NOV
	Dungeness crab			HIGH				X	X	X	X	X	X	X	X	X	-	-	-	APR-DEC	-
77	Pacific rock crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Red rock crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
86	California bay shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-SEP	MAR-OCT	JAN-NOV
	Dungeness crab			HIGH				X	X	X	X	X	X	X	X	X	-	-	-	APR-DEC	-
87	Dungeness crab			HIGH	X	X		X	X	X					X	X	-	-	-	APR- JUN NOV- FEB	-
88	Blacktail bay shrimp			MEDIUM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-SEP	MAR-OCT	JAN-NOV
	California bay shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-SEP	MAR-OCT	JAN-NOV
	Dungeness crab			HIGH				X	X	X	X	X	X	X	X	X	-	-	-	APR-DEC	-
89	Dungeness crab			HIGH				X	X	X	X	X	X	X	X	X	-	-	-	APR-DEC	-

TERRESTRIAL MAMMAL:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
5	Salt-marsh harvest mouse	S/F	E/E	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X
33	Salt-marsh harvest mouse	S/F	E/E	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X
36	Northern river otter			HIGH	X	X	X	X	X	X	X	X	X	X	X	X
41	Salt-marsh harvest mouse	S/F	E/E	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X
	Suisun ornate shrew			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X
84	San Pablo vole			LOW	X	X	X	X	X	X	X	X	X	X	X	X
298	Salt-marsh harvest mouse	S/F	E/E	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X
328	Suisun ornate shrew			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X

HUMAN USE RESOURCES:

BOAT RAMP:

HUN#	Name
29	BOAT RAMP

MARINA:

HUN#	Name
101	CURTOLA PARKWAY RAMP
121	JOSEPHS FISHING RESORT
174	RODEO MARINA
198	VALLEJO MUNICIPAL MARINA
199	VALLEJO YACHT CLUB

STATE/REGIONAL PARK:

HUN#	Name	Owner	Contact	Phone
228	LEONA HEIGHTS OPEN SPACE REGIONAL PRES.	EBRP	DISPATCH	510-881-1833
243	POINT PINOLE REGIONAL SHORELINE	EBRP	DISPATCH	510-881-1833
244	POINT PINOLE STATE FISHING PIER		EBRP DISPATCH	510-881-1833
249	SAN PABLO BAY REGIONAL SHORELINE	EBRP	DISPATCH	510-881-1833

WATER INTAKE:

HUN#	Name	Owner	Contact	Phone
298	MARE ISLAND POWER PLANT	NAVAL SHIPYARD		

WILDLIFE REFUGE/MGMT AREA:

HUN#	Name	Owner	Contact	Phone
313	NAPA-SONOMA MARSHES STATE WILDLIFE AREA	CDFG	REGIONAL OFFICE	707-944-5500
319	SAN PABLO BAY NATIONAL WILDLIFE REFUGE	USFWS	REFUGE MANAGER	510-792-0222