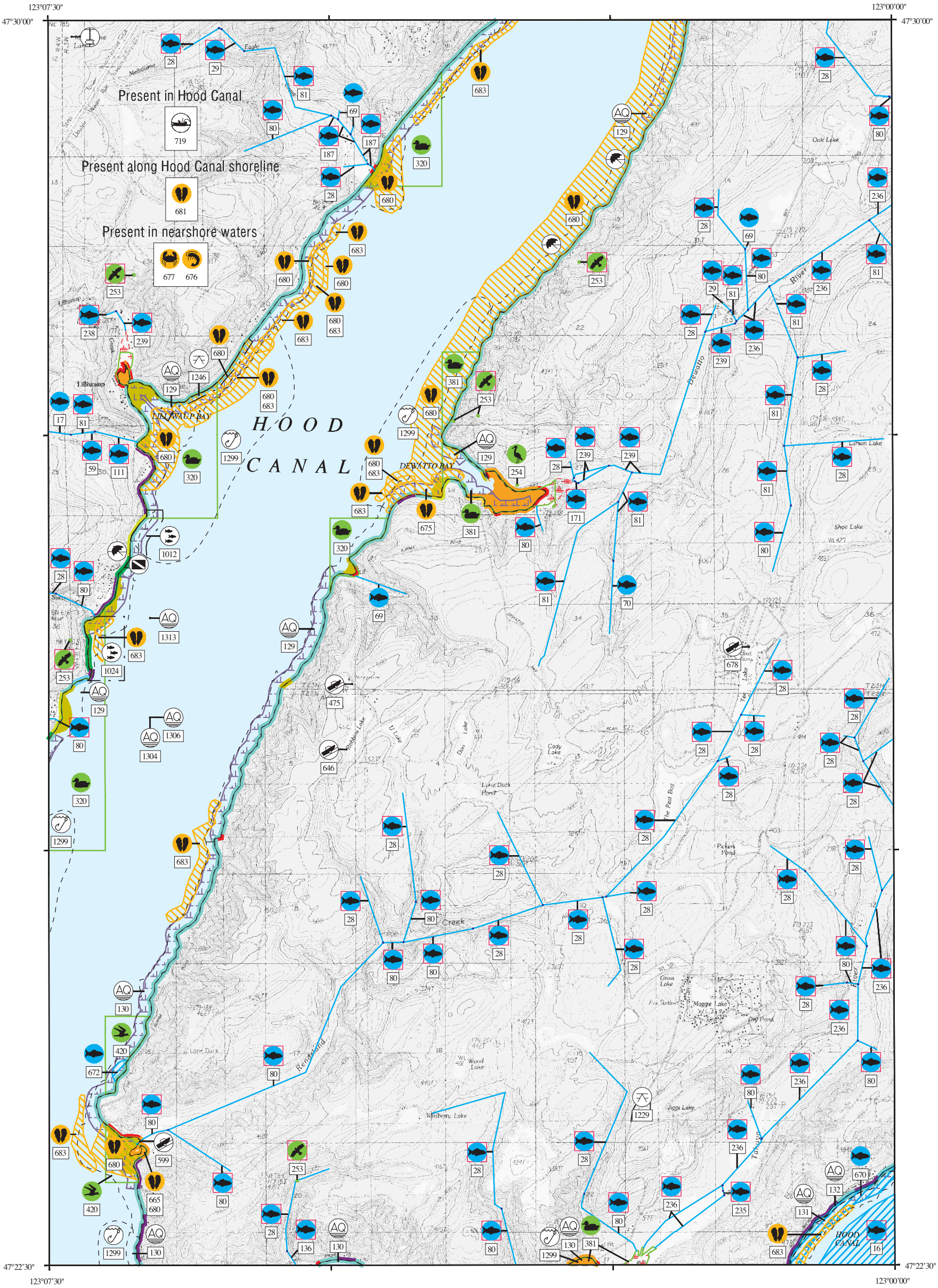
ENVIRONMENTAL SENSITIVITY INDEX MAP



SHORELINE HABITATS (ESI)

- 1A EXPOSED ROCKY SHORES
  1B EXPOSED, SOLID MAN–MADE STRUCTURES
- 2A EXPOSED WAVE–CUT PLATFORMS IN BEDROCK, MUD, OR CLAY
- 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
  6D BOULDER RUBBLE
- 6B RIPRAP
- 7 EXPOSED TIDAL FLATS
- 8A SHELTERED ROCKY SHORES AND SHELTERED SCARPS IN BEDROCK, MUD, OR CLAY
- 8B SHELTERED, SOLID MAN–MADE STRUCTURES
- 8C SHELTERED RIPRAP
- 9A SHELTERED TIDAL FLATS
  9B VEGETATED LOW BANKS
- 10A SALT– AND BRACKISH–WATER MARSHES
- 10C SWAMPS

N W E S

1 .5 0 1 KILOMETER

1 .5 0 1 MILE

SCALE 1:45000

Not For Navigation

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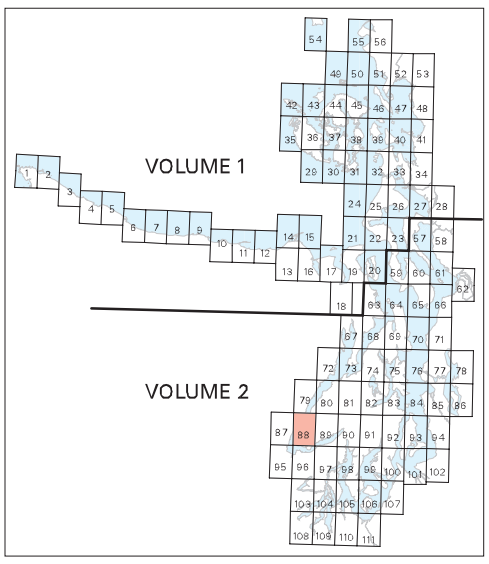

Lilliwaup ESI-88

Puget Sound and the Strait of Juan de Fuca: ESIMAP 88

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
253	Bald eagle	T	T		X	X	X	X	X	X							JAN-JUL	FEB-MAR	MAR-APR	JAN-JUL
254	Great blue heron					X	X	X	X	X							FEB-JUL	-	-	-
320	Goldeneye				X	X	X	X							X	X	-	-	-	-
381	Bufflehead				X	X	X	X							X	X	-	-	-	-
	Goldeneye				X	X	X	X							X	X	-	-	-	-
420	Gulls				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUL	JUN-AUG	JUN-SEP

FISH:

RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
16	Pacific herring	C	C		X	X	X	X	X	X							-	-	-	-	JAN-JUN
17	Steelhead (winter)				X	X	X	X	X	X					X	X	FEB-JUN	-	-	-	NOV-JUN
28	Coho salmon		C		X						X	X	X	X	X	X	SEP-JAN	-	-	-	JUL-JAN
29	Coho salmon		C		X						X	X	X	X	X	X	SEP-JAN	-	-	-	JUL-JAN
	Steelhead (winter)				X	X	X	X	X	X					X	X	FEB-JUN	-	-	-	NOV-JUN
59	Chum salmon (summer)	C	T									X	X	X	X		AUG-NOV	-	-	-	AUG-NOV
69	Chum salmon (fall)				X								X	X	X	X	SEP-JAN	-	-	-	SEP-JAN
70	Chum salmon (fall)				X								X	X	X	X	SEP-JAN	-	-	-	SEP-JAN
	Steelhead (winter)				X	X	X	X	X	X					X	X	FEB-JUN	-	-	-	NOV-JUN
80	Chum salmon (fall)				X								X	X	X	X	SEP-JAN	-	-	-	SEP-JAN
	Coho salmon		C		X						X	X	X	X	X	X	SEP-JAN	-	-	-	JUL-JAN
81	Chum salmon (fall)				X								X	X	X	X	SEP-JAN	-	-	-	SEP-JAN
	Coho salmon		C		X						X	X	X	X	X	X	SEP-JAN	-	-	-	JUL-JAN
	Steelhead (winter)				X	X	X	X	X	X					X	X	FEB-JUN	-	-	-	NOV-JUN
111	Chum salmon (fall)				X								X	X	X	X	SEP-JAN	-	-	-	SEP-JAN
	Chum salmon (summer)	C	T									X	X	X	X		AUG-NOV	-	-	-	AUG-NOV
	Coho salmon		C		X						X	X	X	X	X	X	SEP-JAN	-	-	-	JUL-JAN
	Steelhead (winter)				X	X	X	X	X	X					X	X	FEB-JUN	-	-	-	NOV-JUN
136	Chinook salmon (fall)	C	T								X	X	X	X	X	X	SEP-DEC	-	-	-	JUL-DEC
	Coho salmon		C		X						X	X	X	X	X	X	SEP-JAN	-	-	-	JUL-JAN
171	Chinook salmon (fall)	C	T								X	X	X	X	X	X	SEP-DEC	-	-	-	JUL-DEC
	Chum salmon (summer)	C	T									X	X	X	X		AUG-NOV	-	-	-	AUG-NOV
	Coho salmon		C		X						X	X	X	X	X	X	SEP-JAN	-	-	-	JUL-JAN
	Pink salmon										X	X	X	X	X		AUG-OCT	-	-	-	JUL-NOV
	Steelhead (winter)				X	X	X	X	X	X					X	X	FEB-JUN	-	-	-	NOV-JUN
187	Chinook salmon (fall)	C	T								X	X	X	X	X	X	SEP-DEC	-	-	-	JUL-DEC
	Chum salmon (fall)				X								X	X	X	X	SEP-JAN	-	-	-	SEP-JAN
	Coho salmon		C		X						X	X	X	X	X	X	SEP-JAN	-	-	-	JUL-JAN
	Steelhead (winter)				X	X	X	X	X	X					X	X	FEB-JUN	-	-	-	NOV-JUN
235	Chinook salmon (fall)	C	T								X	X	X	X	X	X	SEP-DEC	-	-	-	JUL-DEC
	Chum salmon (fall)				X								X	X	X	X	SEP-JAN	-	-	-	SEP-JAN
	Chum salmon (summer)	C	T									X	X	X	X		AUG-NOV	-	-	-	AUG-NOV
	Coho salmon		C		X						X	X	X	X	X	X	SEP-JAN	-	-	-	JUL-JAN
236	Chinook salmon (fall)	C	T								X	X	X	X	X	X	SEP-DEC	-	-	-	JUL-DEC
	Chum salmon (fall)				X								X	X	X	X	SEP-JAN	-	-	-	SEP-JAN
	Chum salmon (summer)	C	T									X	X	X	X		AUG-NOV	-	-	-	AUG-NOV
	Coho salmon		C		X						X	X	X	X	X	X	SEP-JAN	-	-	-	JUL-JAN
	Steelhead (winter)				X	X	X	X	X	X					X	X	FEB-JUN	-	-	-	NOV-JUN
238	Chinook salmon (fall)	C	T								X	X	X	X	X	X	SEP-DEC	-	-	-	JUL-DEC
	Chum salmon (fall)				X								X	X	X	X	SEP-JAN	-	-	-	SEP-JAN
	Chum salmon (summer)	C	T									X	X	X	X		AUG-NOV	-	-	-	AUG-NOV
	Coho salmon		C		X						X	X	X	X	X	X	SEP-JAN	-	-	-	JUL-JAN
	Pink salmon										X	X	X	X	X		AUG-OCT	-	-	-	JUL-NOV
239	Chinook salmon (fall)	C	T								X	X	X	X	X	X	SEP-DEC	-	-	-	JUL-DEC
	Chum salmon (fall)				X								X	X	X	X	SEP-JAN	-	-	-	SEP-JAN
	Chum salmon (summer)	C	T									X	X	X	X		AUG-NOV	-	-	-	AUG-NOV
	Coho salmon		C		X						X	X	X	X	X	X	SEP-JAN	-	-	-	JUL-JAN
	Pink salmon										X	X	X	X	X		AUG-OCT	-	-	-	JUL-NOV
	Steelhead (winter)				X	X	X	X	X	X					X	X	FEB-JUN	-	-	-	NOV-JUN
670	Pacific sand lance				X	X									X	X	NOV-FEB	-	-	-	-
	Surf smelt				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-	-	-
672	Pacific sand lance				X	X									X	X	NOV-FEB	-	-	-	-

INVERTEBRATE:

RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
665	Hardshell clams				x	x	x	x	x	x	x	x	x	x	x	x	-	-	-	-	-
	Pacific oyster				x	x	x	x	x	x	x	x	x	x	x	x	-	-	-	-	-
675	Softshell clam				x	x	x	x	x	x	x	x	x	x	x	x	-	-	-	-	-
676	Pandalid shrimp				x	x	x	x	x	x	x	x	x	x	x	x	-	-	-	-	-
677	Dungeness crab				x	x	x	x	x	x	x	x	x	x	x	x	-	-	-	-	-
680	Hardshell clams				x	x	x	x	x	x	x	x	x	x	x	x	-	-	-	-	-
681	Pacific oyster				x	x	x	x	x	x	x	x	x	x	x	x	-	-	-	-	-
683	Geoduck				x	x	x	x	x	x	x	x	x	x	x	x	-	-	-	-	-

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HUMAN USE RESOURCES:

AQUACULTURE:

HUN#	Name	Contact	Phone
129	HOOD CANAL #5		
130	HOOD CANAL #6		
131	HOOD CANAL #7		
132	HOOD CANAL #8		
1304	CLOSED - HOODSPORT MARINA NET PENS COOP		
1306	CLOSED - SUND ROCK NET PENS CO-OP		
1313	GLEN AYR NET PENS COOP		

BOAT RAMP:

HUN#	Name	Contact	Phone
475	ALDRICH LAKE-P. SHARP (DNR)	WASHINGTON DEPARTMENT OF NATURAL RESOURCES	360/902-1000
599	MENARDS LANDING	TAHUYA, PORT OF	360/275-7100
646	ROBBINS LAKE (DNR)	WASHINGTON DEPARTMENT OF NATURAL RESOURCES	360/902-1000
678	TEE LAKE (WDFW)	WASHINGTON DEPARTMENT OF FISH AND WILDLIFE	360/902-2200

COMMERCIAL FISHING:

HUN#	Name	Contact	Phone
719	SALMON FISHING		

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
1012	OCTOPUS HOLE CA	WASHINGTON DEPARTMENT OF FISH AND WILDLIFE	
1024	SUND ROCK CA	WASHINGTON DEPARTMENT OF FISH AND WILDLIFE	

PARK:

HUN#	Name	Contact	Phone
1229	HARVEY RENDSLAND/JIGGS LK	DEB PETERSEN, WASHINGTON STATE PARKS	360/902-8634
1246	LILLIWAUP TIDELANDS	DEB PETERSEN, WASHINGTON STATE PARKS	360/902-8634

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.

Puget Sound and the Strait of Juan de Fuca: ESIMAP 88 (cont.)

HUMAN USE RESOURCES: (cont.)

RECREATIONAL FISHING:

HUN#	Name	Contact	Phone
1299	SALMON FISHING		