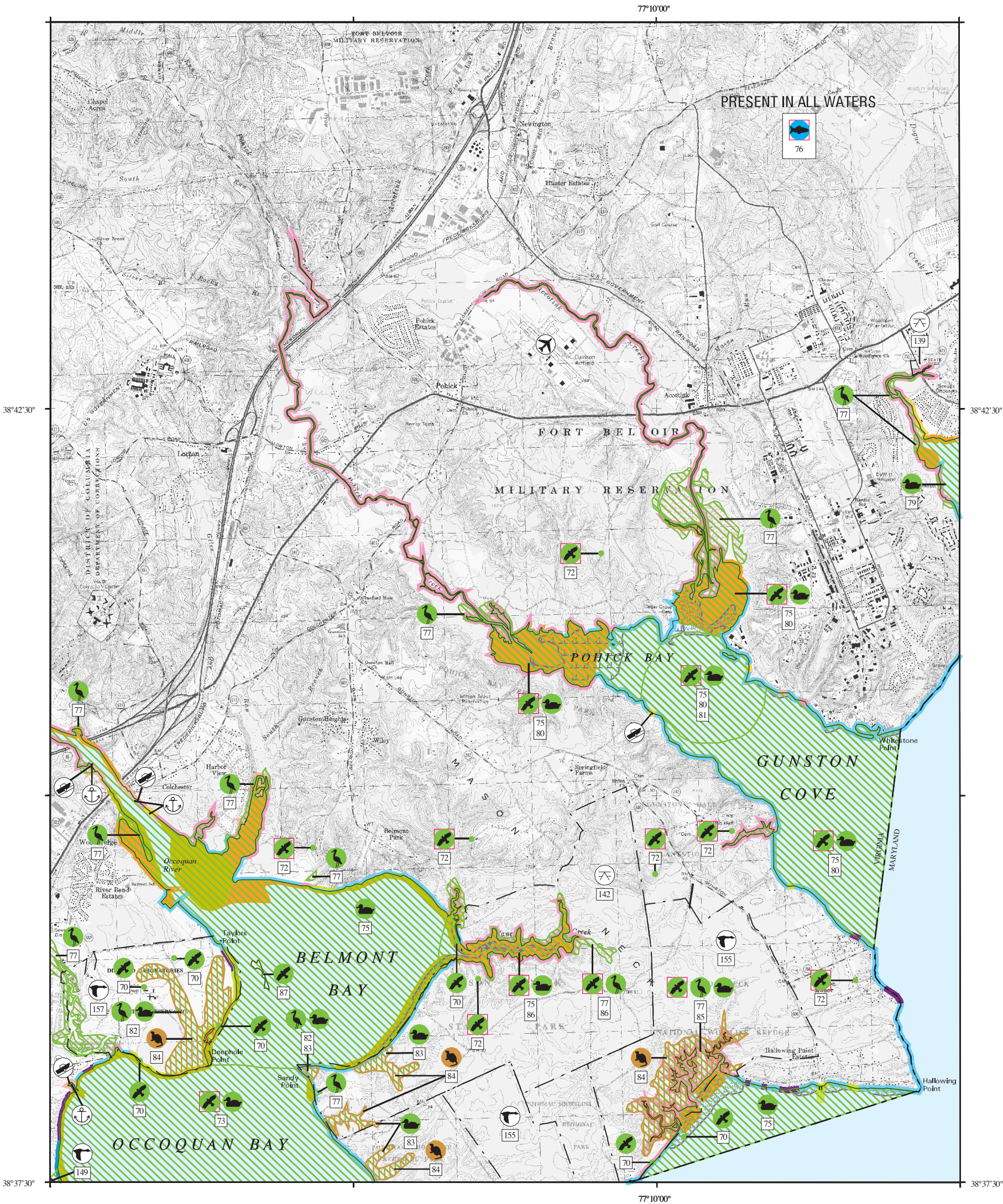


ENVIRONMENTAL SENSITIVITY INDEX MAP



SHORELINE HABITATS (ESI)

- 1B EXPOSED, SOLID MAN-MADE STRUCTURES
- 2A EXPOSED WAVE-CUT PLATFORMS IN CLAY
- 2B EXPOSED SCARPS AND STEEP SLOPES IN 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
- 6B RIPRAP
- 7 EXPOSED TIDAL FLATS
- 8A SHELTERED SCARPS IN CLAY
- 8B SHELTERED, SOLID MAN-MADE STRUCTURES
- 8C SHELTERED RIPRAP
- 9A SHELTERED TIDAL FLATS
- 9B SHELTERED, VEGETATED LOW BANKS
- 10A SALT-AND BRACKISH-WATER MARSHES
- 10B FRESHWATER MARSHES
- 10C SWAMP
- 10D SCRUB-SHRUB WETLANDS

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National Ocean Service
Office of Response and Restoration
Hazardous Materials Response Division

Virginia: ESIMAP 124

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
70	Osprey					X	X	X	X	X	X				MAR-AUG	-	-
72	Bald eagle	T T	X	X	X	X	X	X	X	X			X		DEC-AUG	-	-
73	American black duck	HIGH	X	X	X	X						X	X	X	-	-	-
	American coot		X	X	X	X						X	X	X	-	-	-
	American wigeon		X	X	X	X						X	X	X	-	-	-
	Bald eagle	T T	X	X	X								X		-	-	-
	Bufflehead		X	X	X	X						X	X	X	-	-	-
	Canada goose	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Canvasback	HIGH	X	X	X	X						X	X	X	-	-	-
	Gadwall		X	X	X	X						X	X	X	-	-	-
	Mallard	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Mergansers	MODERATE	X	X	X	X						X	X	X	-	-	-
	Northern pintail		X	X	X	X						X	X	X	-	-	-
	Ring-necked duck	HIGH	X	X	X	X						X	X	X	-	-	-
	Ruddy duck	5000	X	X	X	X						X	X	X	-	-	-
	Scaup	HIGH	X	X	X	X						X	X	X	-	-	-
	Tundra swan	HIGH	X	X	X	X						X	X	X	-	-	-
75	American black duck	HIGH	X	X	X	X						X	X	X	-	-	-
	American coot		X	X	X	X						X	X	X	-	-	-
	American wigeon		X	X	X	X						X	X	X	-	-	-
	Bufflehead		X	X	X	X						X	X	X	-	-	-
	Canada goose	HIGH	X	X	X	X						X	X	X	-	-	-
	Canvasback	HIGH	X	X	X	X						X	X	X	-	-	-
	Gadwall		X	X	X	X						X	X	X	-	-	-
	Mallard	HIGH	X	X	X	X						X	X	X	-	-	-
	Mergansers	MODERATE	X	X	X	X						X	X	X	-	-	-
	Northern pintail		X	X	X	X						X	X	X	-	-	-
	Ring-necked duck	HIGH	X	X	X	X						X	X	X	-	-	-
	Ruddy duck	MODERATE	X	X	X	X						X	X	X	-	-	-
	Scaup	HIGH	X	X	X	X						X	X	X	-	-	-
	Tundra swan	HIGH	X	X	X	X						X	X	X	-	-	-
77	Sora		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Virginia rail		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
79	American black duck	HIGH	X	X	X	X						X	X	X	-	-	-
	American coot		X	X	X	X						X	X	X	-	-	-
	American wigeon		X	X	X	X						X	X	X	-	-	-
	Bufflehead		X	X	X	X						X	X	X	-	-	-
	Canada goose	HIGH	X	X	X	X						X	X	X	-	-	-
	Canvasback	HIGH	X	X	X	X						X	X	X	-	-	-
	Mallard	HIGH	X	X	X	X						X	X	X	-	-	-
	Mergansers	MODERATE	X	X	X	X						X	X	X	-	-	-
	Northern pintail		X	X	X	X						X	X	X	-	-	-
	Ring-necked duck	HIGH	X	X	X	X						X	X	X	-	-	-
	Ruddy duck	MODERATE	X	X	X	X						X	X	X	-	-	-
	Scaup	MODERATE	X	X	X	X						X	X	X	-	-	-
	Tundra swan	HIGH	X	X	X	X						X	X	X	-	-	-
	Wood duck		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
80	Bald eagle	T T								X	X	X	X		-	-	-
	Osprey									X	X	X			-	-	-
81	Bald eagle	T T	X	X	X								X		-	-	-
82	American black duck	60-80 NESTS	X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	-	-
	American woodcock		X	X								X	X	X	-	-	-
	Black rail				X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Great blue heron		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-
	King rail		X	X	X	X	X					X	X	X	APR-MAY	-	-
83	Wood duck		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
85	Bald eagle	T T	X	X	X	X	X	X	X	X			X		-	-	-
	Mute swan		X	X	X	X						X	X	X	-	-	-
	Tundra swan	HIGH	X	X									X		-	-	-
86	Bald eagle	T T >100	X	X	X	X	X	X	X	X			X		-	-	-
87	Osprey	7 NESTS			X	X	X	X	X	X					MAR-AUG	-	-

FISH:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
76	Alewife		X	X	X	X	X	X	X	X	X				FEB-JUN	FEB-JUN	FEB-JUN	FEB-OCT	FEB-JUN
	American eel		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	American shad		X	X	X	X	X	X	X	X	X				FEB-JUN	FEB-JUN	FEB-JUN	FEB-OCT	FEB-JUN
	Atlantic croaker					X	X	X	X	X	X	X	X	X	-	-	-	MAY-DEC	-
	Atlantic menhaden					X	X	X	X	X	X				-	-	MAY-NOV	MAY-NOV	MAY-OCT
	Atlantic sturgeon	C	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	APR-NOV
	Banded killifish		X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-	JAN-DEC	JAN-DEC
	Bay anchovy		X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-	JAN-DEC	JAN-DEC
	Black crappie		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-	JAN-DEC	JAN-DEC
	Blueback herring		X	X	X	X	X	X	X	X	X				FEB-JUN	FEB-JUN	FEB-JUN	FEB-OCT	FEB-JUN
	Bluegill		X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-	-	JAN-DEC
	Bluespotted sunfish		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	-	-	-	JAN-DEC
	Brown bullhead		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-	-	JAN-DEC
	Chain pickerel		X	X	X	X	X	X	X	X	X	X	X	X	FEB-APR	-	-	-	JAN-DEC
	Channel catfish		X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	-	-	JAN-DEC	JAN-DEC
	Common carp		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-	JAN-DEC
	Gizzard shad		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-	JAN-DEC	JAN-DEC
	Hickory shad				X	X	X	X	X	X	X				FEB-JUN	FEB-JUN	FEB-JUN	FEB-OCT	FEB-JUN
	Hogchoker		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	Largemouth bass		X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	-	-	-	JAN-DEC
	Longnose gar		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	-	-	JAN-DEC	JAN-DEC
	Minnnows		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	JAN-DEC
	Mummichog		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	JAN-DEC
	Pumpkinseed		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-	JAN-DEC	JAN-DEC
	Redbreast sunfish		X	X	X	X	X	X	X	X	X	X	X	X	JUN-JUL	-	-	JAN-DEC	JAN-DEC
	Shortnose sturgeon		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Silversides		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAR-JUL	APR-SEP	JAN-DEC	JAN-DEC
	Spot		X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-APR	APR-NOV	-
	Striped bass					X	X	X	X	X					-	-	-	MAY-OCT	-
	Striped killifish		X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-	JAN-DEC	JAN-DEC
	Tessellated darter		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-	-	JAN-DEC
	Threadfin shad		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	White catfish		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	-	-	JAN-DEC	JAN-DEC
	White perch		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	APR-JUN	APR-JUN	JAN-DEC	JAN-DEC
	Yellow perch		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-	JAN-DEC	JAN-DEC

TERRESTRIAL MAMMAL:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D
84	Northern river otter		X	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.

Virginia: ESIMAP 124 (cont.)

HUMAN USE RESOURCES:

PARK:

HUN#	Name	Contact	Phone
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139	GEORGE WASHINGTON GRIST MILL STATE PARK	VA DCR	703/780-2000
142	MASON NECK STATE PARK	VA DCR	703/339-2385

WILDLIFE REFUGE:

HUN#	Name	Contact	Phone
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149	FEATHERSTONE NATIONAL WILDLIFE REFUGE	U.S. FISH AND WILDLIFE SERVICE	703/490-4979
155	MASON NECK NATIONAL WILDLIFE REFUGE	U.S. FISH AND WILDLIFE SERVICE	703/490-4979
157	OCCOQUAN BAY NATIONAL WILDLIFE REFUGE	U.S. FISH AND WILDLIFE SERVICE	703/490-4979