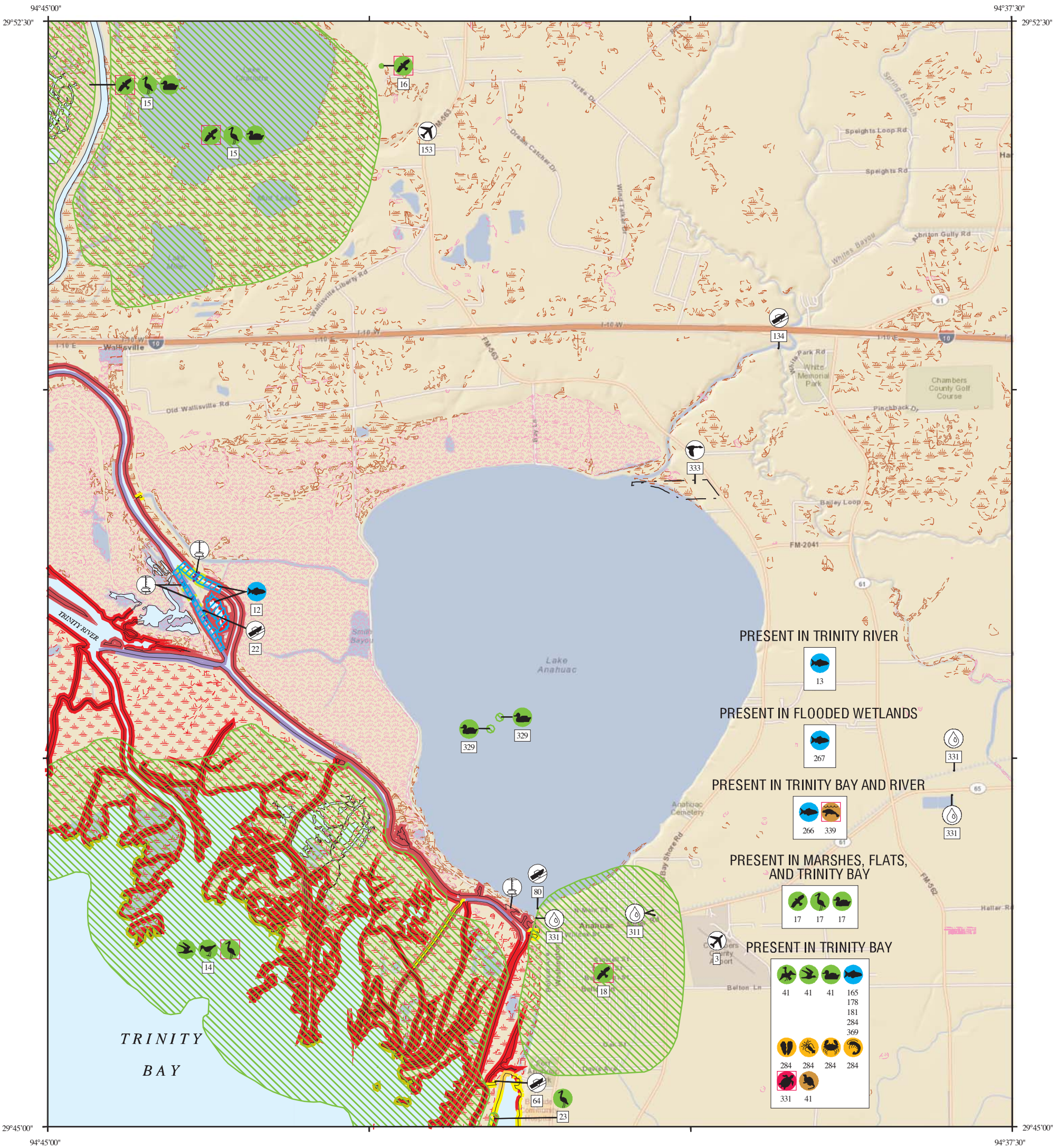


ENVIRONMENTAL SENSITIVITY INDEX MAP



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
- 5 MIXED SAND AND GRAVEL (SHELL) BEACHES
- 6A GRAVEL BEACHES
- 6B RIPRAP
- 7 EXPOSED TIDAL FLATS
- 8A SHELTERED SCARPS IN CLAY OR BEDROCK
- 8B SHELTERED, SOLID MAN-MADE STRUCTURES
- 8C SHELTERED RIPRAP
- 9A SHELTERED TIDAL FLATS
- 10A SALT-AND BRACKISH-WATER MARSHES
- 10B FRESHWATER MARSHES
- 10C SWAMPS
- 10D SCRUB-SHRUB WETLANDS

SCALE 1:50000

1 0.5 0 1 KILOMETER

1 0.5 0 1 MILE

1 0.5 0 1 NAUTICAL MILE

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Emergency Response Division

TEXAS

GULF OF MEXICO

Upper Texas Coast: ESIMAP 19

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
14	American avocet		100S	X	X	X	X	X		X	X	X	X	X	X	-	MAR-APR JUL-NOV	-
	American oystercatcher		PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Black skimmer		100S	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Black-bellied plover		100S	X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-MAY JUL-NOV	-
	Dowitchers		1000S	X	X	X	X	X		X	X	X	X	X	X	-	MAR-MAY JUL-NOV	-
	Dunlin		1000S	X	X	X	X	X				X	X	X	X	-	-	-
	Killdeer		10S	X	X	X	X	X	X	X	X	X	X	X	X	-	DEC-MAR	-
	Long-billed curlew		PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-APR JUN-NOV	-
	Marbled godwit		100S	X	X	X	X			X	X	X	X	X	X	-	MAR-APR JUL-NOV	-
	Reddish egret	T	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Ruddy turnstone		PRESENT	X	X	X	X	X		X	X	X	X	X	X	-	-	-
	Shorebirds		1000S	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Western sandpiper		1000S	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-MAY JUL-NOV	-
	Willet		100S	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-APR AUG-AUG	-
	Yellowlegs		100S	X	X	X	X	X		X	X	X	X	X	X	-	MAR-MAY JUL-NOV	-
15	Bald eagle	T		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Marsh birds			X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Rails			X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Raptors			X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Wading birds			X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Waterfowl			X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Wood duck			X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUL	-	-
16	Bald eagle	T		X	X	X	X	X	X	X	X	X	X	X	X	OCT-JUL	-	-
17	Marsh birds			X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Mottled duck			X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	JUN-AUG
	Osprey			X	X	X	X	X			X	X	X	X		-	-	-
	Rails			X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Wading birds			X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Waterfowl			X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Wood duck			X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUL	-	-
18	Bald eagle	T	1 NEST	X	X	X	X	X	X	X	X	X	X	X	X	OCT-JUL	-	-
23	Great blue heron			X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Great egret			X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Little blue heron			X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Wading birds			X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
41	Black skimmer			X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Cormorants			X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Diving birds			X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Diving ducks			X	X	X	X				X	X	X			-	-	-
	Grebes			X	X	X	X	X			X	X	X	X		-	-	-
	Gulls			X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Loons			X	X	X	X				X	X	X			-	-	-
	Pelicans			X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Terns			X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
329	Greater white-fronted goose			X	X	X	X				X	X	X			-	-	-
	Snow goose			X	X	X					X	X	X			-	-	-

FISH:

RAR#	Species	S F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
12	Alligator gar		HIGH	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	-	-	-	JUN-DEC	JUN-DEC
13	Alligator gar			X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	MAY-JUN	-	JAN-DEC	JAN-DEC
	Striped bass			X	X	X	X	X	X	X	X	X	X	X	X	-	APR-MAY	APR-MAY	JAN-DEC	JAN-DEC
165	Atlantic sharpnose shark					X	X	X	X	X	X					JUN-JUN	MAY-JUN	JUN-OCT	-	APR-OCT
178	Bull shark		ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	MAY-AUG	MAY-AUG	APR-NOV	JAN-DEC
181	Blacktip shark					X	X	X	X	X	X	X	X	X	X	MAY-JUN	MAY-JUN	MAY-NOV	MAR-NOV	MAY-JUN
266	Tarpon		RARE			X	X	X	X	X	X	X	X	X	X	-	-	-	MAR-NOV	-
267	Alligator gar							X	X	X						MAY-JUN	MAY-JUN	MAY-JUL	-	-
284	Alligator gar		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Atlantic bumper		RARE								X	X				-	-	-	-	AUG-SEP
	Atlantic croaker		HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-JUN	JAN-DEC	JAN-DEC
	Bay anchovy		ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	MAR-NOV	FEB-NOV	JAN-DEC
	Bay whiff		ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAY-AUG	MAY-AUG
	Black drum		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Blue catfish		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Crevalle jack		COMMON			X	X	X	X	X	X	X	X	X	X	-	-	-	MAR-NOV	-
	Gafftopsail catfish		COMMON				X	X	X	X	X	X	X	X	X	APR-MAY	-	-	APR-OCT	APR-OCT
	Gizzard shad		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
	Gulf butterflyfish		RARE			X	X									-	-	-	-	-
	Gulf killifish		RARE	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-SEP	MAR-OCT	JAN-DEC	JAN-DEC
	Gulf menhaden		HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	APR-DEC
	Hardhead catfish		ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	MAY-SEP	MAY-SEP	JUN-OCT	JAN-DEC
	Pinfish		COMMON			X	X	X	X	X	X					-	-	-	MAR-SEP	-
	Red drum		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Sand seatrout		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Sheepshead		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JUN-JUN	JAN-DEC
																		SEP-MAR		
	Silver perch		RARE	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-SEP	MAY-SEP	OCT-OCT	JAN-DEC
	Silversides		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	JAN-DEC	JAN-DEC
	Smallmouth buffalo			X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
	Southern flounder		ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Southern kingfish		COMMON								X	X	X	X		-	-	-	AUG-NOV	-
	Spanish mackerel		COMMON								X	X				-	-	-	SEP-OCT	SEP-OCT
	Spot		HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAR-NOV	JAN-DEC
	Spotfin mojarra		RARE								X	X				-	-	-	-	-
	Spotted gar		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	APR-MAY	-	JAN-DEC	JAN-DEC
	Spotted seatrout		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUL	AUG-NOV	JAN-DEC
	Striped mullet		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	White mullet		COMMON				X	X	X	X	X	X	X			-	-	-	APR-OCT	-
369	Spinner shark						X	X	X	X	X	X				MAY-JUN	MAY-JUN	MAY-JUL	MAY-OCT	MAY-OCT

INVERTEBRATE:

RAR#	Species	S F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
284	Atlantic rangia		ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	-	MAR-OCT	JAN-DEC	JAN-DEC
	Blue crab		HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAR-OCT	MAR-NOV	JAN-DEC	JAN-DEC
	Brief squid		RARE						X	X	X	X	X			JUN-NOV	JUN-NOV	JUN-NOV	JUN-NOV	JUN-NOV
	Brown shrimp		COMMON			X	X	X	X	X	X	X	X	X	X	-	-	-	FEB-APR	APR-DEC
	Grass shrimp		ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
	White shrimp		HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-OCT	MAY-DEC	JAN-DEC

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.

Upper Texas Coast: ESIMAP 19 (cont.)

BIOLOGICAL RESOURCES: (cont.)

MARINE MAMMAL:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Mating	Calving	Pupping	Molting
339	West Indian manatee	E E VERY RARE	X X X	-	-	-	-

REPTILE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Interesting	Juveniles	Adults
331	Kemp's ridley sea turtle	E E COMMON	X X X X X X X X	-	-	-	APR-NOV	-

TERRESTRIAL MAMMAL:

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

HUMAN USE RESOURCES:

AIRPORT:

HUN#	Name	Contact	Phone
3	CHAMBERS COUNTY		

BOAT RAMP:

HUN#	Name	Contact	Phone
22	ACOE WALLISVILLE LAKE PROJECT		
64	FORT ANAHUAC PARK		
80	LAKE ANAHUAC BOAT RAMP		
134	WHITES PARK		

HELIPORT:

HUN#	Name	Contact	Phone
153	CIG 816		

WATER INTAKE:

HUN#	Name	Contact	Phone
311	CITY OF ANAHUAC		
331	TBCD WEST TREATMENT PLANT		

WILDLIFE REFUGE:

HUN#	Name	Contact	Phone
333	ANAHUAC NATIONAL WILDLIFE REFUGE		